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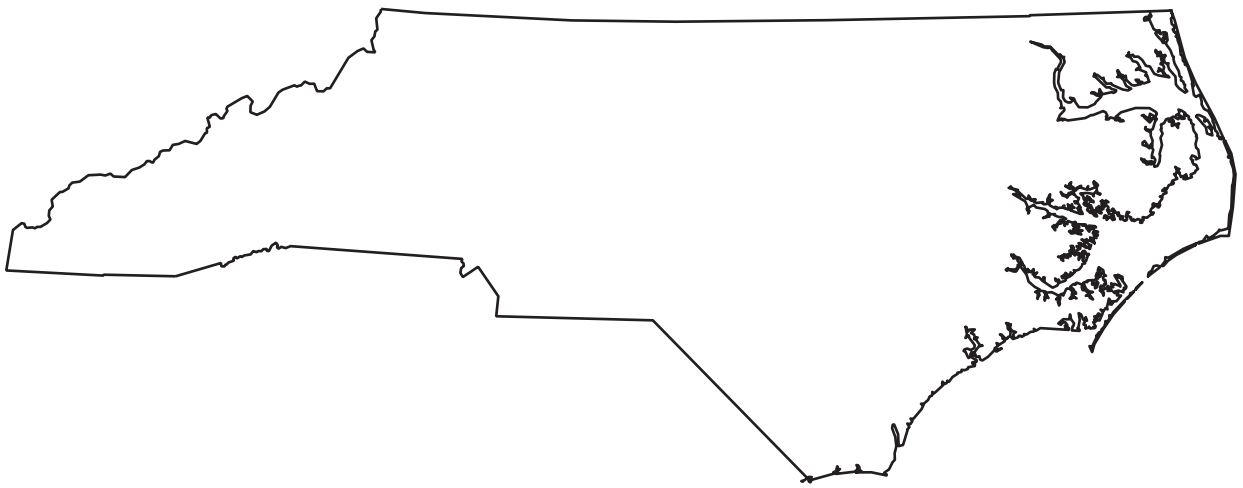
Water Resources Data
North Carolina
Water Year 2005

Volume 1
Surface-Water Records



Water-Data Report NC-05-1

U.S. Department of the Interior
U.S. Geological Survey

Calendar for Water Year 2005

2004

October

S	M	T	W	T	F	S
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31						

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2005

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April

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May

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June

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July

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31						

August

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28	29	30	31			

September

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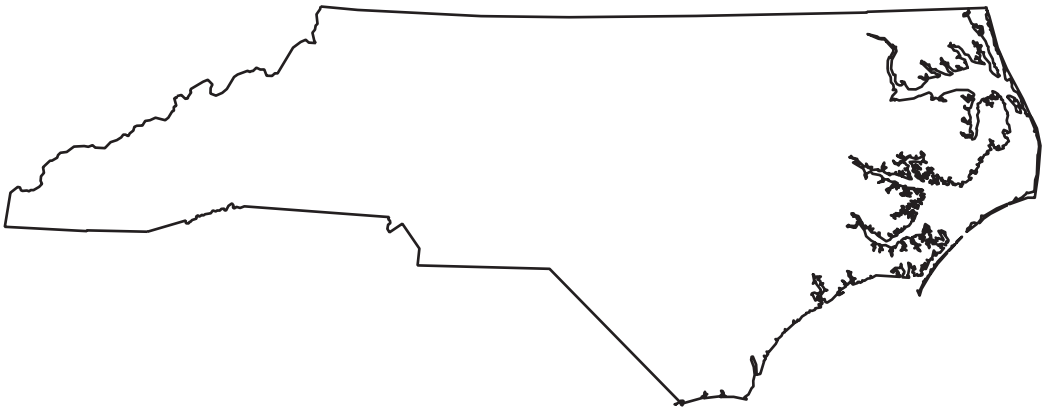
25	26	27	28	29	30	

Water Resources Data
North Carolina
Water Year 2005

Volume 1. Surface-Water Records

By D.A. Walters, J.B. Robinson, and R.G. Barker

Water-Data Report NC-05-1



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U.S. Geological Survey
3916 Sunset Ridge Road
Raleigh, NC 27607
(919) 571-4000

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PREFACE

This volume of the annual hydrologic-data report of North Carolina is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface-water data-collection networks in each State, Puerto Rico, and the Trust Territories. These records of streamflow and quality of water provide hydrologic information needed by State, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources. Hydrologic data for North Carolina are contained in two volumes.

This report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey who collected, compiled, analyzed, verified, and organized the data, and who typed, edited, and assembled the report. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, the following individuals contributed significantly to the collection, processing, and tabulation of the data:

Bernice A. Allen
Pamilee L. Breton
William S. Caldwell
Geoffrey D. Cartano
James S. Chapman
James W. Cook
Stephen A. Davis
Sean D. Egen
Jason M. Fine
Ronald G. Garrett
Mary L. Giorgino
Stephen L. Harden
William F. Hazell
Brad A. Huffman
Philip S. Jen
Joshua Manzer
James I. Marlowe
Gary L. McCulloch, Jr
Terry L. Middleton
Michelle Moorman
Jeffrey P. Moss
Michael D. Penley
Cassandra Pfeifle
Bobby C. Ragland
Ryan B. Rasmussen
Jeanne C. Robbins
Eric S. Rudisill
Eric M. Sadorf
Douglas G. Smith
P. Shawn Spivey
Erik C. Staub
Bruce C. Steiner
Joseph P. Sullivan
Chad R. Wagner
Bentley T. Walton
John C. Weaver
Danelle Wiersma
Wendi S. Young

Pamilee L. Breton edited much of the text, tables, and graphs of this report. Pamilee L. Breton and Ramona J. Traynor assembled the report.

This report was prepared in cooperation with the State of North Carolina, other agencies, and under the general supervision of Gerald L. Ryan, Director, North Carolina Water Science Center; and Jess D. Weaver, Regional Hydrologist, Southeastern Region.

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Water-resources data for the 2005 water year for North Carolina consist of discharge records for 215 gaging stations; stage only records for 25 gaging stations; elevations for 10 stations; stage and contents for 60 lakes and reservoirs; water quality for 35 gaging stations and continuous water quality for 19 sites; and continuous precipitation at 127 sites. Additional water data were collected at 53 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements.

The collection of water-resources data in North Carolina is part of the National Water-Data System operated by the U.S. Geological Survey in cooperation with State, municipal, and Federal agencies.

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CONTENTS

Page

Preface ... iii
List of surface-water stations, in downstream order, for which records are published in this volume ... vii
List of discontinued surface-water discharge stations ... xv
Counties and Physiographic Provinces of North Carolina ... xxi
Introduction ... 1
Cooperation ... 2
Downstream order and station number ... 3
Numbering system for wells and miscellaneous sites ... 3
Special networks and programs ... 5
Explanation of stage- and water-discharge records ... 6
Data collection and computation ... 6
Data presentation ... 7
Station manuscript ... 8
Peak discharge greater than base discharge ... 9
Data table of daily mean values ... 9
Statistics of monthly mean data ... 9
Summary statistics ... 9
Identifying estimated daily discharge ... 11
Accuracy of field data and computed results ... 12
Other data records available ... 12
Explanation of precipitation records ... 12
Data collection and computation ... 12
Data presentation ... 13
Explanation of water-quality records ... 13
Collection and examination of data ... 13
Water analysis ... 13
Surface-water-quality records ... 14
Classification of records ... 14
Accuracy of the records ... 14
Arrangement of records ... 15
On-site measurements and sample collection ... 15
Water temperature ... 15
Sediment ... 16
Laboratory measurements ... 16
Data presentation ... 16
Remark codes ... 18
Water-quality control data ... 18
Blank samples ... 18
Reference samples ... 19
Replicate samples ... 19
Spike samples ... 20
Explanation of ground-water-level records ... 20
Site identification numbers ... 20
Data collection and computation ... 20

Page

Data presentation 21
Water-level tables 22
Hydrographs 22
Ground-water-quality data 22
Data collection and computation 22
Laboratory measurements 22
Access to USGS Water Data 23
References 23
Definition of terms 24
Station records, surface water 58
Lakes and reservoirs in the South Atlantic Slope Basin 924
Lakes and reservoirs in the Ohio River Basin 1049
Measurements at miscellaneous sites 1054
Index 1062

ILLUSTRATIONS

Page

Figure 1. System for numbering wells and miscellaneous sites 4
2. Locations of surface-water stations in the Albemarle Sound/Chowan River Basins, North Carolina 40
3. Locations of surface-water stations in the Roanoke River Basin, North Carolina 41
4. Locations of surface-water stations in the Pamlico River Basin, North Carolina 42
5. Locations of surface-water stations in the Neuse River Basin, North Carolina 43
6. Locations of surface-water stations in the Cape Fear and New River Basins, North Carolina 44
7. Locations of surface-water stations in the Lumber River Basin, North Carolina 45
8. Location of surface-water station in the Pee Dee/Yadkin River Basins, North Carolina 46
9. Locations of surface-water stations in the Catawba River Basin, North Carolina 47
10. Locations of surface-water stations in the New River Basin, North Carolina 48
11. Locations of surface-water stations in the French Broad River Basin, North Carolina 49
12. Locations of surface-water stations in the Little Tennessee River Basin, North Carolina 50
13. Locations of surface-water stations in the Hiwassee River Basin, North Carolina 51
14. Locations of surface-water stations in Wake County, North Carolina, in the Neuse River Basin 52
15. Locations of surface-water stations in Guilford County, North Carolina, in the Cape Fear River Basin 53
16. Locations of surface-water stations in and near Mecklenburg County, North Carolina, in the Pee Dee/Yadkin River Basin 54
17. Locations of water-quality stations in Chatham, Durham, Orange, and Wake Counties, North Carolina 55
18. Locations of water-quality stations in western North Carolina 56
19. Locations of water-quality stations in eastern North Carolina 57

SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

Letter after station name designates type of data: (d) discharge, (g) gage height, (c) chemical, (s) sediment, (e) elevation, (p) precipitation, and continuously monitored water-quality characteristics: (t) water temperature, (k) specific conductance, (h) pH, (o) dissolved oxygen, (n) salinity, (b) turbidity, (r) chlorophyll.

		Page
SOUTH ATLANTIC SLOPE BASIN		
ALBEMARLE SOUND BASIN		
Pasquotank River near South Mills (d)	0204382800	58-59
CHOWAN RIVER BASIN		
Chowan River:		
Meherrin River:		
Potecasi Creek near Union (d)	02053200	60-61
Wiccacon River:		
Ahoskie Creek at Ahoskie (d)	02053500	62-63
ROANOKE RIVER BASIN		
Roanoke River:		
Dan River:		
Dan River near Francisco (d).	02068500	64-65
Mayo River near Price (d)	02070500	66-67
Dan River near Wentworth (d)	02071000	68-69
Smith River at Eden (d)	02074000	70-71
Wolf Island Creek below Secondary Road 1998 at Reidsville (d)	0207428225	72-73
Hyco Creek (head of Hyco River) near Leasburg (d,t)	02077200	74-77
Hyco Lake at Dam near Roxboro (g)	02077280	78
Afterbay Reservoir at Dam near McGhees Mill (e)	0207730290	79
Hyco River below Afterbay Dam near McGehees Mill (d,t)	02077303	80-83
Mayo Creek near Bethel Hill (d)	02077670	84-85
Roanoke River at Roanoke Rapids (d)	02080500	86-87
Roanoke River at Halifax (e,t,k,h,o)	0208062765	88-89
Roanoke River near Scotland Neck (g)	02081000	100
Roanoke River near Oak City (e,t,k,h,o)	02081022	101-112
Roanoke River at Hamilton (e)	02081028	113
Roanoke River at Williamston (g)	02081054	114
Roanoke River at Jamesville (e,t,k,h,o)	02081094	115-126
Cashie River at Secondary Road 1257 near Windsor (d)	0208111310	127-128
Roanoke River at N.C. 45 near Westover (e,t,k,h,o)	0208114150	129-150
PAMLICO RIVER BASIN		
TAR RIVER:		
Tar River (head of Pamlico River) near Tar River (d)	02081500	151-152
Tar River at U.S. 401 at Louisburg (d,p)	02081747	153-155
Tar River below Tar River Reservoir near Rocky Mount (d)	02082506	156-157
Tar River at U.S. 301 Bypass at Rocky Mount (g,p)	0208250885	158-159
Stony Creek at Winstead Avenue at Rocky Mount (g)	02082576	160
Tar River at N.C. 97 at Rocky Mount (d,p)	02082585	161-163
Swift Creek at Hillardston (d)	02082770	164-165
Swift Creek at N.C. 97 near Leggett (g,p)	0208281175	166-167
Fishing Creek:		
Little Fishing Creek near White Oak (d)	02082950	168-169
Fishing Creek near Enfield (d)	02083000	170-171
Fishing Creek at N.C. 97 near Leggett (g)	0208331077	172
Tar River at Tarboro (d)	02083500	173-174
Town Creek at US 258 near Pinetops (g,p)	02083640	175-176
Tar River at U.S. 264 Bypass near Rock Springs (e)	02083893	177

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

PAMLICO RIVER BASIN--Continued
Tar River at Greenville (d,p) 02084000 178-180
Chicod Creek:
Chicod Creek at Secondary Road 1760 near Simpson (d) 02084160 181-182
Tar River at Secondary Road 1565 near Grimesland (e) 02084173 183
Tranters Creek at Secondary Road 1567 near Washington (e,p) 0208436195 184-185
Pamlico River:
Pamilco River at Washington (d,n,h,t,o) 02084472 186-208
Pamlico River at Light 5 (n,h,t,o) 0208453300 209-229
Pamilco River at Light 3 (n,h,t,o) 0208455155 230-250
Pungo River:
Pungo River at Channel Light 18 (n,h,t,o) 0208455560 251-271
Van Swamp near Hoke (d) 02084557 272-273

NEUSE RIVER BASIN
Eno River:
Eno River (head of Neuse River) at Hillsborough (d,c,s) 02085000 274-277
Eno River near Durham (d) 02085070 278-279
Little River:
Little River at Secondary Road 1461 near Orange Factory (d) 0208521324 280-281
Mountain Creek at Secondary Road 1617 near Bahama (d,c,s) 0208524090 282-284
Little River Reservoir at dam near Bahama (c) 0208524845 285-287
Little River tributary at Fairntosh (c,s) 0208524950 288
Little River below Little River tributary at Fairntosh (d,c,s) 0208524975 289-291
Flat River:
Flat River at Bahama (d,c,s) 02085500 292-294
Lake Michie at Dam near Bahama (c) 02086490 295-297
Flat River at Dam nr Bahama (d) 02086500 298-299
Flat River tributary near Willardville (d,c,s) 0208650112 300-302
Neuse River:
Falls Lake at Interstate 85 near Redwood (c) 02086920 303-304
Falls Lake at State Highway 50 near Sandy Plain (c) 0208703650 305-306
Falls Lake at State Highway 98 near Bayleaf (c) 0208708905 307-308
Falls Lake at Mile Marker 1 near Falls (c) 0208717595 309-310
Falls Lake above Dam at Falls (c) 0208718195 311-312
Falls Lake above Dam near Falls (e,p) 02087182 313-314
Neuse River near Falls (d) 02087183 315-316
Crabtree Creek at Ebenezer Church Road near Raleigh (d) 0208726005 317-318
Crabtree Creek at Highway 70 at Raleigh (d) 02087275 319-320
Crabtree Creek at Anderson Drive at Raleigh (g) 0208731190 321
Crabtree Creek at Old Wake Forest Road at Raleigh (g) 02087322 322
Crabtree Creek at U.S. 1 at Raleigh (d) 02087324 323-324
Pigeon House Creek at Cameron Village at Raleigh (d,p) 0208732534 325-327
Marsh Creek near New Hope (d,p) 0208732885 328-330
Rocky Branch below Pullen Drive at Raleigh (d) 0208735012 331-332
Walnut Creek at Sunnybrook Drive at Raleigh (d,p) 02087359 333-335
Neuse River near Clayton (d) 02087500 336-337
Neuse River above U.S. 70 at Smithfield (c) 0208755215 338-350
Neuse River at Smithfield (g) 02087570 351
Town of Smithfield (c) 353112078205802 352-364
Swift Creek near Apex (d,c,s) 02087580 365-370
Lake Wheeler on Swift Creek near Raleigh (c) 02087588 371-372
Swift Creek near McCullars Crossroads (d) 0208758850 373-374
Lake Benson at Dam near Garner (c) 02087701 375-376
Middle Creek near Clayton (d) 02088000 377-378
Black Creek near Four Oaks (g) 02088090 379

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

NEUSE RIVER BASIN--Continued
Mills Creek at Cox Mill (g) ... 02088270 380
Little River near Princeton (d) ... 02088500 381-382
Neuse River near Goldsboro (d) ... 02089000 383-384
Bear Creek at Mays Store (d) ... 0208925200 385-386
Neuse River at Kinston (d,c,s) ... 02089500 387-392
Contentnea Creek:
Contentnea Creek near Lucama (d) ... 02090380 393-394
Nahunta Swamp:
Hominy Swamp at Forest Hills Road near Wilson (g) ... 0209050750 395
Nahunta Swamp near Shine (d) ... 02091000 396-397
Contentnea Creek at Hookerton (d,c,s) ... 02091500 398-403
Unnamed Tributary to Sandy Run nr Lizzie (d) ... 0209173190 404-405
Weather Station #2 near Lizzie (p) ... 353137077332801 406
Middle Swamp near Farmville (d) ... 02091736 407-408
Neuse River near Fort Barnwell (d) ... 02091814 409-410
Swift Creek at NC Highway 43 near Streets Ferry (d) ... 0209205053 411-412
Neuse River at New Bern (t,n,h,o) ... 02092162 413-433
Trent River near Trenton (d) ... 02092500 434-435
Trent River at Pollocksville (d) ... 02092554 436-437
Neuse River at Channel Light 11 (n,h,t,o) ... 0209262905 438-458
Neuse River at Channnel Light 9 (n,h,t,o) ... 0209265810 459-479
Crab Point Thorofare near Morehead City (n,h,t,o,b,r) ... 0209270650 480-494
Gallant Channel at Airport at Beaufort (n,h,t,o,b,r) ... 0209270680 495-509

NEW RIVER BASIN
New River near Gum Branch (d) ... 02093000 510-511

CAPE FEAR RIVER BASIN
Haw River (head of Cape Fear River):
Reedy Fork near Oak Ridge (d,p) ... 02093800 512-514
Brush Creek at Muirfield Road near Greensboro (d,p) ... 02093877 515-520
Horse Pen Creek at US 220 near Greensboro (d,p) ... 0209399200 521-523
Reedy Fork near Gibsonville (d) ... 02094500 524-525
South Buffalo Creek near Pomona (d,p) ... 02094659 526-528
South Buffalo Creek at US 220 at Greensboro (d,p) ... 02094770 529-531
Ryan Creek below US 220 at Greensboro (d,p) ... 02094775 532-534
South Buffalo Creek near Greensboro (d,p) ... 02095000 535-537
North Buffalo Creek at Westover Terrace at Greensboro (d,p) ... 02095181 538-540
North Buffalo Creek at Church Street at Greensboro (d,p) ... 02095271 541-543
North Buffalo Creek near Greensboro (d,p) ... 02095500 544-546
Buffalo Creek at Secondary Road 2819 near McLeansville (d,p) ... 0209553650 547-549
Haw River at Haw River (d,p) ... 02096500 550-552
Cane Creek near Orange Grove (d,c,s) ... 02096846 553-556
Cane Creek Reservoir at dam near White Cross (c) ... 0209684980 557-559
Haw River near Bynum (d) ... 02096960 560-561
Jordan Lake, Haw River arm, above B. Everett Jordan dam (c) ... 0209719700 562-564
New Hope Creek (head of New Hope River) near Blands (d) ... 02097314 565-566
Northeast Creek at Secondary Road 1100 near Genlee (d,c,s) ... 0209741955 567-569
Morgan Creek near White Cross (d,c,s) ... 02097464 570-573
University Lake at intakes near Chapel Hill (c) ... 0209749990 574-576
Morgan Creek near Chapel Hill (d) ... 02097517 577-578

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

CAPE FEAR RIVER BASIN--Continued
B. Everett Jordan Lake at Buoy 12 at Farrington (c) 0209768310 579-581
White Oak Creek at mouth near Green Level (d,c,s) 0209782609 582-585
Jordan Lake above U.S. Highway 64 near Wilsonville (c) 0209799150 586-588
Jordan Lake at Bells Landing near Griffins Crossroads (c) 0209801100 589-591
B. Everett Jordan Lake at Dam near Moncure (e) 02098197 592
Haw River below B. Everett Jordan Dam near Moncure (g,p) 02098198 593-594
Deep River:
East Fork Deep River near High Point (d) 02099000 595-596
Deep River at Ramseur (d) 02100500 597-598
Rocky River near Crutchfield Crossroads (d) 0210166029 599-600
Tick Creek near Mount Vernon Springs (d) 02101800 601-602
Deep River at Moncure (d) 02102000 603-604
Buckhorn Creek near Corinth (d) 02102192 605-606
Cape Fear River at Lillington (d) 02102500 607-608
Flat Creek near Inverness (d,p) 02102908 609-611
Little River at Manchester (d) 02103000 612-613
Cape Fear River at Fayetteville (g) 02104000 614
Rockfish Creek at Raeford (d) 02104220 615-616
Cape Fear River at William O. Huske Lock near Tarheel (d,p) 02105500 617-619
Cape Fear River at Lock 1 near Kelly (d,p) 02105769 620-622
Hood Creek near Leland (d) 02105900 623-624
Black River near Tomahawk (d) 02106500 625-626
Black River near Currie (d) 02107544 627-629
Northeast Cape Fear River:
Northeast Cape Fear River near Chinquapin (d) 02108000 630-631
Northeast Cape Fear River near Burgaw (e,d) 02108566 632-635

LUMBER RIVER BASIN
Waccamaw River:
Waccamaw River at Freeland (d) 02109500 636-637

PEE DEE RIVER BASIN

YADKIN RIVER:
Yadkin River (head of Pee Dee River) at Patterson (d,p) 02111000 638-640
Triplett Raingage (p) 361210081333001 641
Elk Creek at Elkville (d,p) 02111180 642-644
W. Kerr Scott Reservoir at Dam near Wilkesboro (g,p) 02111391 645-646
Wilbar Raingage (p) 361554081191701 647
Reddies River at North Wilkesboro (d) 02111500 648-649
Yadkin River at Wilkesboro (d) 02112000 650-651
Roaring River near Roaring River (d,p) 02112120 652-654
Yadkin River at Elkin (d) 02112250 655-656
Mitchell River near State Road (d) 02112360 657-658
Fisher River near Copeland (d,p) 02113000 659-661
Hogan Creek at Secondary Road 2038 near Siloam (c,s) 0211351575 662-663
Pauls Creek above Secondary Road 1625 near Pine Ridge (c,s) 0211371675 664-665
Ararat River at Ararat (d,p) 02113850 666-668
Bull Creek at Ash Hill (c,s) 0211397263 669-670
Little Yadkin River at Dalton (d) 02114450 671-672
Yadkin River at Enon (d,p) 02115360 673-675
Yadkin River at Yadkin College (d,p) 02116500 676-678
South Yadkin River near Mocksville (d,p) 02118000 679-681
Hunting Creek near Harmony (d,p). 02118500 682-684
Second Creek near Barber (d,p) 02120780 685-687

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

PEE DEE RIVER BASIN--Continued
Abbotts Creek at Lexington (d) 02121500 688-689
Abbotts Creek Precipitation (p) 354855080134201 690
High Rock Lake (p) 02122400 691
Tuckertown Reservoir (p) 02122699 692
Rocky River:
West Branch Rocky River below mouth of South Prong River near Cornelius (d) 0212393300 693-694
Clarke Creek near Harrisburg (d) 02124080 695-696
Mallard Creek below Stony Creek near Harrisburg (d) 0212414900 697-698
Coddle Creek at Secondary Road 1612 near Davidson (d) 0212419274 699-700
Reedy Creek at Secondary Road 2803 near Charlotte (d) 0212427947 701-702
Rocky River above Irish Buffalo Creek near Rocky River (d,p) 0212433550 703-705
Clear Creek at Secondary Road 3181 near Mint Hill (d) 0212466000 706-707
Goose Creek at Secondary Road 1525 near Indian Trail (d) 0212467595 708-709
Goose Creek at Fairview (d,t,k,h,o,s) 02124692 710-722
Rocky River near Stanfield (d) 02124742 723-724
Big Bear Creek near Richfield (d). 02125000 725-726
Rocky River near Norwood (d) 02126000 727-728
Little River near Star (d). 02128000 729-730

LUMBER RIVER BASIN--Continued
Pee Dee River near Rockingham (d) 02129000 731-732
Little Pee Dee River:
Big Shoe Heel Creek near Laurinburg (d) 02132320 733-734
Drowning Creek (head of Lumber River) near Hoffman (d) 02133500 735-736
Lumber River near Maxton (d) 02133624 737-738
Lumber River at Lumberton (d) 02134170 739-740
Big Swamp near Tar Heel (d) 02134480 741-742
Lumber River at Boardman (d) 02134500 743-744
CRN01 (p) 351812080445545 745
CRN16 (p) 351540080430045 746
CRN23 (p) 351302080412701 747
CRN26 (p) 352432080473745 748
CRN29 (p) 351218080331345 749
CRN30 (p) 351455080374445 750
CRN32 (p) 351028080385545 751
CRN33 (p) 352000080414645 752
CRN36 (p) 352921080473245 753
CRN39 (p) 350634080405245 754
CRN44 (p) 352718080484345 755
CRN46 (p) 352135080462045 756
CRN63 (p) 352623080434145 757
CRN65 (p) 351536080410645 758
CRN67 (p) 350857080383245 759
CRN68 (p) 351145080371945 760
Precipitation at Statesville (p) 354822080521501 761

SANTEE RIVER BASIN

CATAWBA RIVER:
Catawba River (head of Santee River) near Pleasant Gardens (d,p) 02137727 762-764
Linville River near Nebo (d) 02138500 765-766
Catawba River at Calvin (d) 0213903612 767-768
Johns River at Arneys Store (d) 02140991 769-770
Lower Little River near All Healing Springs(d,p) 02142000 771-773

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

SANTEE RIVER BASIN--Continued
Norwood Creek near Troutman (d) 0214253830 774-775
CRN24 (p) 02142651 776
McDowell Creek near Charlotte (d,p) 0214266000 777-779
CRN25 (p) 0214266075 780
Gar Creek near Croft (d) 0214266080 781-786
CRN35 (p) 0214267600 787
Killian Creek near Mariposa (d,p) 0214269560 788-790
Long Creek near Paw Creek (d,p) 02142900 791-793
Gum Branch near Thrift (d) 02142914 794-797
Long Creek near Rhyne (d) 0214291555 798-799
Paw Creek at Wilkinson Boulevard near Charlotte (d) 0214295600 800-801
Beaverdam Creek above Windy Gap Road near Shopton (d) 0214297160 802-803
South Fork Catawba River:
Henry Fork (head of South Fork Catawba River) near Henry River (d) 02143000 804-805
Jacob Fork at Ramsey (d,p) 02143040 806-808
Indian Creek near Laboratory (d) 02143500 809-810
Long Creek near Bessemer City (d,p) 02144000 811-813
South Fork Catawba River at Lowell (d) 02145000 814-815
CRN03 (p) 0214620760 816
Irwin Creek at Statesville Avenue at Charlotte (d) 02146211 817-820
Stewart Creek at State Street at Charlotte (d) 0214627970 821-822
Stewart Creek at West Morehead Street at Charlotte (d) 02146285 823-824
Irwin Creek near Charlotte (d) 02146300 825-826
Taggart Creek at West Boulevard near Charlotte (d) 02146315 827-828
Sugar Creek:
Coffey Creek near Charlotte (d) 02146348 829-830
CRN28 (p) 0214635212 831
Sugar Creek at NC51 near Pineville (d) 02146381 832-833
Little Sugar Creek:
Little Sugar Creek below 36th Street near Charlotte (g) 0214640410 834
Little Sugar Creek at Medical Center Drive at Charlotte (d) 02146409 835-836
Little Sugar Creek at Hillside Avenue near Charlotte (g) 02146420 837
Briar Creek near Charlotte (d) 0214642825 838-839
Briar Creek at Independence Boulevard at Charlotte (g) 0214643770 840
Briar Creek below Edwards Branch near Charlotte (g) 0214643860 841
Briar Creek at Providence Road at Charlotte (g) 02146449 842
Briar Creek above Colony Road at Charlotte (d) 0214645022 843-844
Little Hope Creek at Seneca Place at Charlotte (d) 02146470 845-846
Little Sugar Creek at Archdale Drive at Charlotte (d) 02146507 847-848
Little Sugar Creek at Highway 51 at Pineville (d) 02146530 849-850
McAlpine Creek:
McAlpine Creek at State Road 3150 near Idlewild (d) 0214655255 851-852
Campbell Creek near Charlotte (d) 02146562 853-854
Irvins Creek at Secondary Road 3168 near Charlotte (d) 0214657975 855-856
McAlpine Creek at Sardis Road near Charlotte (d,p) 02146600 857-859
Four Mile Creek near Pineville (g) 02146670 860
McMullen Creek at Sharon View Road near Charlotte (d) 02146700 861-862
McAlpine Creek below McMullen Creek near Pineville (d,p) 02146750 863-865
Steele Creek at Secondary Road 1441 near Pineville (d) 0214678175 866-867
Waxhaw Creek at Secondary Road 1103 near Jackson (d) 02147126 868-869
Broad River:
Cove Creek near Lake Lure (d) 02149000 870-871
Second Broad River near Logan (d,p) 02150495 872-874
Broad River near Boiling Springs (d) 02151500 875-876
First Broad River near Casar (d) 02152100 877-878

Page

SOUTH ATLANTIC SLOPE BASIN--Continued

SANTEE RIVER BASIN--Continued
CRN02 (p) 351954080493445 879
CRN04 (p) 351132080562345 880
CRN05 (p) 351642080533445 881
CRN07 (p) 350351080454145 882
CRN08 (p) 350314080484945 883
CRN09 (p) 351414080463245 884
CRN11 (p) 351331080525945 885
CRN12 (p) 350823080505345 886
CRN13 (p) 350947080524945 887
CRN14 (p) 351553080562645 888
CRN15 (p) 351320080502645 889
CRN17 (p) 351023080435745 890
CRN19 (p) 351132080504145 891
CRN20 (p) 351032080475245 892
CRN21 (p) 350842080572801 893
CRN22 (p) 350623080583801 894
CRN27 (p) 351604080470845 895
CRN31 (p) 350110080502045 896
CRN34 (p) 352555080574445 897
CRN37 (p) 351247080592745 898
CRN38 (p) 350200081020345 899
CRN40 (p) 353003080591745 900
CRN42 (p) 353014080524945 901
CRN43 (p) 352440080505045 902
CRN45 (p) 350903081004545 903
CRN47 (p) 351229080460245 904
CRN48 (p) 350637080475645 905
CRN49 (p) 352224080500345 906
CRN50 (p) 351502080512045 907
CRN51 (p) 352310080424845 908
CRN52 (p) 351753081011745 909
CRN53 (p) 351412080541245 910
CRN54 (p) 351741080475045 911
CRN55 (p) 350324080551845 912
CRN56 (p) 350635080513245 913
CRN57 (p) 351109080412145 914
CRN58 (p) 352006080462845 915
CRN59 (p) 350624081023345 916
CRN60 (p) 351104080521845 917
CRN61 (p) 351816080564345 918
CRN62 (p) 352523080535545 919
CRN64 (p) 351928080515645 920
CRN66 (p) 351229080480145 921
CRN69 (p) 350646080432545 922
CRN70 (p) 350630080455845 923

OHIO RIVER BASIN

NEW RIVER BASIN
South Fork New River (head of Kanawha River) near Jefferson (d) 03161000 935-936

Page

OHIO RIVER BASIN--Continued

TENNESSEE RIVER BASIN

FRENCH BROAD RIVER:
French Broad River (head of Tennessee River) at Rosman (d) 03439000 937-938
Davidson River near Brevard (d) 03441000 939-940
French Broad River at Blantyre (d) 03443000 941-942
Mills River:
Mills River near Mills River (d) 03446000 943-944
French Broad River near Fletcher (d) 03447687 945-946
Boyd Branch at Bent Creek Gap Road near Lake Powhatan (d,c,k,h,t,o) 0344789265 947-973
Bent Creek at Bent Creek Gap Road near Glen Bald (d) 03447894 974-975
Swannanoa River:
North Fork Swannanoa River near Walkertown (d) 0344894205 976-977
Beetree Creek near Swannanoa (d) 03450000 978-979
Swannanoa River at Biltmore (d) 03451000 980-981
French Broad River at Asheville (d,p) 03451500 982-984
Newfound Creek near Alexander (d) 03451690 985-987
Ivy River near Marshall (d) 03453000 988-989
French Broad River at Marshall (d) 03453500 990-991
Pigeon River:
West Fork Pigeon River above Lake Logan near Hazelwood (d) 03455500 992-993
Lake Logan at Dam near Hazelwood (g,p) 03455773 994-995
West Fork Pigeon River near Retreat (d) 0345577330 996-997
West Fork Pigeon River at Bethel (d) 03456100 998-999
East Fork Pigeon River near Canton (d,p) 03456500 1000-1002
Pigeon River near Canton (d) 03456991 1003-1004
Pigeon River near Hepco (d) 03459500 1005-1006
Cataloochee Creek near Cataloochee (d) 03460000 1007-1008
Pigeon River below Power Plant near Waterville (d,t,o) 03460795 1009-1014
Nolichucky River:
South Toe River near Celo (d) 03463300 1015-1016
Watauga River:
Watauga River near Sugar Grove (d) 03479000 1017-1018

LITTLE TENNESSEE RIVER:
Little Tennessee River near Prentiss (d) 03500000 1019-1020
Cartoogechaye Creek near Franklin (d) 03500240 1021-1022
Cullasaja River at Secondary Road 1620 near Highlands (d) 03500560501 1023-1024
Little Tennessee River at Needmore (d,p) 03503000 1025-1027
Nantahala River near Rainbow Springs (d) 03504000 1028-1029
Nantahala River near Hewitt (d) 03505550 1030-1031
Tuckasegee River:
Tuckasegee River at Secondary Road 1172 near Cullowhee (d) 03508050 1032-1033
Tuckasegee River at Barker's Creek (d) 03510577 1034-1035
Oconaluftee River at Birdtown (d) 03512000 1036-1037
Tuckasegee River at Bryson City (d,p) 03513000 1038-1040
Cheoah River near Bearpen Gap near Topoco (d,t) 0351706800 1041-1044

HIWASEE RIVER:
Brasstown Creek near Brasstown (d) 03548330 1045-1046
Valley River at Tomotla (d) 03550000 1047-1048

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS

The following continuous-record streamflow stations in North Carolina have been discontinued or converted to partial-record stations. Daily streamflow or stage records were collected and published for the period of record shown for each station.

Station number	Station name	Drainage area (mi^2)	Period of record
	Albemarle Sound Basin		
02043200	West Neck Creek at Indian River Road at Pungo, VA	Indeterminate	1998-1999
0204343500	Intracoastal Waterway at Coinjock, NC	Indeterminate	1998-1999
	Chowan River Basin		
02053400	Ahoskie Creek near Rich Square, NC	3.70	1964-73
02053450	Ahoskie Creek at Mintons Store, NC	24.0	1964-73
02053510	Ahoskie Creek tributary at Poortown, NC	2.60	1963-73
	Roanoke River Basin		
02068000	Dan River near Asbury, NC	71.4	1924-26
02069000	Dan River at Pine Hall, NC	501	1924-26, 1986-91
02071500	Dan River at Leaksville, NC	1,150	1929-49
02074218	Dan River near Mayfield, NC	1,778	1976-84
02075160	Moon Creek near Yanceyville, NC	29.90	1961-74, 1988-89
02077230	South Hyco Creek near Hesters Store, NC	29.9	1964-67
02077240	Double Creek near Roseville, NC	7.47	1964-75, 1977-82
02077250	South Hyco Creek near Roseville, NC	56.5	1966-80
02077300	Hyco River at McGehees Mill, NC	191	1964-73
02077660	Mayo Creek near Woodsdale, NC	52.7	1975-77
	Pamlico River Basin		
02081800	Cedar Creek near Louisburg, NC	47.8	1956-75
02082000	Tar River near Nashville, NC	701	1928-71
02082500	Sapony Creek near Nashville, NC	64.8	1950-70
02082610	Tar River near Rocky Mount, NC	930	1971-73
0208273070	Devils Cradle Creek at NC 39 near Kearney, NC	2.89	1984-85
02082731	Devils Cradle Creek nr Alert, NC	13.4	1993-97
020837837	Conetoe Creek at Conetoe, NC	65.4	2002-03
02083800	Conetoe Creek near Bethel, NC	78.1	1956-02
02083833	Pete Mitchell Swamp at Sr1409 nr Penny Hill, NC	11.0	1993-97
02084070	Green Mill Run at Arlington Boulevard at Greenville, NC	9.10	1980-85
02084164	Juniper Branch near Simpson, NC	7.5	1975-86
0208423100	Flat Swamp at SR 1157 near Robersonville, NC	21.3	1986-88
02084317	Black Swamp near Batts Crossroads, NC	1.02	1982
02084500	Herring Run near Washington, NC	9.59	1950-80
02084540	Durham Creek near Edwards, NC	26.0	1950-04
02084556	North Lake Canal above Pungo Lake near Wenona, NC	.29	1976-80
02084558	Albemarle Canal near Swindell, NC	68.0	1977-81
0208463120	Outflow Ditch from Jennett Sedge at Buxton, NC	Indeterminate	1994-95
	Neuse River Basin		
02084903	Sevenmile Creek tributary at SR 1120 near Buckhorn, NC	1.34	1981-82
02084904	Sevenmile Creek tributary at I-85 near Miles, NC	.004	1981-82
02084905	Sevenmile Creek tributary at SR 1144 near Miles, NC	1.57	1981-82
02084908	Sevenmile Creek tributary at I-85 near Efland, NC	.29	1981-82
02084909	Sevenmile Creek near Efland, NC	14.1	1987-04
02085220	Little River near Orange Factory, NC	80.4	1962-87

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Neuse River Basin--Continued		
02086000	Dial Creek near Bahama, NC	4.76	1925-71
			1989-91
0208650112	Flat River tributary near Willardsville, NC	1.14	1988-90
02086624	Knap of Reeds Creek near Butner, NC	43.0	1982-95
02086849	Ellerbee Creek nr Gorman, NC	21.9	1982-89
			1991-95
02087000	Neuse River near Northside, NC	535	1927-80
0208700780	Little Lick Creek above Secondary Road 1814 near Oak Grove, NC	10.1	1982-95
0208705200	Smith Creek at Grissom, NC	6.2	1984-85
0208721055	Perry Creek at SR 2012 near Millbrook, NC	2.43	1986-89
0208732810	Marsh Creek at SR 2030 at Millbrook, NC	1.44	1986-89
02087570	Neuse River at Smithfield, NC	1,206	1959-90
0208762750	Unnamed Trib to Swift Creek near Yates Mill Pond, NC	0.21	2002-04
02088315	Beaverdam Creek near Grantham, NC	5.01	1978-82
02088470	Little River near Kenly, NC	191	1964-89
02088682	Big Ditch at Retha Street at Goldsboro, NC	2.17	1980-84
02089216	Daileys Creek near Liddell, NC	3.80	1978-81
02089222	Bear Creek near Parkstown, NC	4.27	1978-82
02090500	Contentnea Creek near Wilson, NC	236	1930-54
02090512	Hominy Swamp at Phillips Street at Wilson, NC	8.20	1978-85
02090625	Turner Swamp near Eureka, NC	2.1	1968-87
02090960	Nahunta Swamp near Pikeville, NC	19.0	2000-03
0209096970	Moccasin Run near Patetown, NC	1.89	1988-98
02091700	Little Contentnea Creek near Farmville, NC	93.3	1956-87
0209173192	Drainage Ditch to Tributary to Sandy Run near Lizzie, NC	0.02	1999-02
0209173200	Sandy Run near Lizzie, NC	29.0	1999-00
02091737	Little Contentnea Creek near Willow Green, NC	145	1999-02
02091960	Creeping Swamp near Calico, NC	9.80	1971-77
02091970	Creeping Swamp near Vanceboro, NC	27.0	1971-85
02092000	Swift Creek near Vanceboro, NC	182	1950-89
02092020	Palmetto Swamp near Vanceboro, NC	24.0	1971-76
0209257120	W. P. Brice Creek below SR 1101 near Riverdale, NC	11.2	1986-91
	Hewletts Creek Basin		
02093229	Hewletts Creek at SR 102 near Wilmington, NC	1.98	1977-90
	Cape Fear River Basin		
0209330990	Brooks Lake tributary near Browns Summit, NC	.06	1985-90
0209331325	Candy Creek at SR 2700 near Monticello, NC	1.10	1985-90
02093500	Haw River near Benaja, NC	168	1928-71
0209387778	Brush Creek at Fleming Road at Greensboro, NC	7.42	1999-04
02094000	Horsepen Creek at Battle Ground, NC	15.9	1925-31
			1934-59
02094412	Reedy Fork near Browns Summit, NC	125	1999-01
0209509100	South Buffalo Creek at SR 2821 at McLeansville, NC	43.5	1986-88
0209555450	Buffalo Creek at SR 2719 near Osceola, NC	97.4	1986-87
0209560800	Reedy Fork Creek at NC 61 near Osceola, NC	243	1986-88
02096000	Stony Creek near Burlington, NC	44.2	1952-59
02096700	Big Alamance Creek near Elon College, NC	116	1957-80
02096842	Cane Creek 0.1mile above SR 1126 near Buckhorn, NC	.64	1979-81
02096850	Cane Creek near Teer, NC	33.7	1959-73
02097000	Haw River near Pittsboro, NC	1,310	1928-73
02097243	Third Fork Creek at Durham, NC	1.68	1968-73
0209736050	Battle Branch near Chapel Hill, NC	0.42	1996-01
02097500	Morgan Creek near Chapel Hill, NC	30.1	1923-32

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Cape Fear River Basin--Continued		
0209782150	New Hope River tributary at SR 1716 near Farrington, NC	2.05	1986-88
02098000	New Hope River near Pittsboro, NC	285	1949-73
02098500	West Fork Deep River near High Point, NC	32.1	1923-26
			1928-58
02099500	Deep River near Randleman, NC	125	1929-04
02100000	Muddy Creek near Archdale, NC	16.7	1934-41
02101000	Bear Creek at Robbins, NC	134	1939-71
0210106600	Deep River nr Glendon, NC	859	1993-96
0210108450	Suck Creek tributary near Zion Grove, NC	.67	1986-88
02102897	Lower Little River near Lobelia, NC	110	2003
02103000	Little River at Manchester, NC	348	1938-50
02103500	Little River at Linden, NC	459	1928-71
02104000	Cape Fear River at Fayetteville, NC	4,395	1889-1903
			1928-40
02104387	Buckhead Creek near Owens, NC	2.62	1976-80
02104500	Rockfish Creek near Hope Mills, NC	292	1929-31
			1939-54
02105524	Ellis Creek tributary at SR 1325 near White Oak, NC	1.81	1979-81
02106000	Little Coharie Creek near Roseboro, NC	92.8	1950-92
02106681	Black River near Dunn, NC	48.3	1976-77
02107000	South River near Parkersburg, NC	379	1951-86
02107500	Colly Creek near Kelly, NC	103	1950-71
02107600	Northeast Cape Fear River near Seven Springs, NC	47.5	1958-75
0210782005	Nahunga Creek at SR 1301 near Warsaw, NC	8.30	1983-90
0210783230	Herrings Marsh Run near Summerlins Crossroads, NC	2.25	1991-99
0210783240	Herrings Marsh Run Tributary near Summerlins Crossroads, NC	1.49	1991-00
0210783273	Herrings Marsh Run Tributary at Red Hill, NC	1.14	1991-97
0210783276	Herrings Marsh Run below SR 1306 at Red Hill, NC	9.11	1991-99
0210789100	Grove Creek at Kenansville, NC	22.6	1983-90
0210797940	Limestone Creek at NC 24 near Hadley, NC	1.61	1986-88
02108500	Rockfish Creek near Wallace, NC	69.3	1955-81
02108548	Little Rockfish Creek at Wallace, NC	7.8	1976-92
	Pee Dee River Basin		
02112500	Fisher River near Dobson, NC	109	1920-32
02113500	Yadkin River at Siloam, NC	1,226	1976-87
02115500	Forbush Creek near Yadkinville, NC	22.1	1940-71
02115750	Muddy Creek near Lewisville, NC	82.8	1964-70
02115800	Silas Creek near Clemmons, NC	11.8	1964-70
02115842	Tar Branch tributary at First Street at Winston-Salem, NC	.04	1979-82
02115850	Salem Creek at Winston-Salem, NC	51.3	1964-70
02115854	Salem Creek tributary at Hawthorne Road, Winston-Salem, NC	.50	1979-82
02115856	Salem Creek near Atwood, NC	65.6	1971-82
02115860	Muddy Creek near Muddy Creek, NC	186	1964-79
			1988-91
02115900	South Fork Muddy Creek near Clemmons, NC	42.9	1964-79
			1988-91
02117030	Humpy Creek near Fork, NC	1.05	1968-83
02117500	Rocky Creek at Turnersburg, NC	101	1940-71
02119000	South Yadkin River at Cooleemee, NC	569	1928-65
02119400	Third Creek near Stony Point, NC	4.84	1956-69
02120500	Third Creek at Cleveland, NC	87.4	1940-71
02121000	Yadkin River near Salisbury, NC	3,450	1895-1927
02121180	North Potts Creek at Linwood, NC	9.62	1980-90
02121493	Leonard Creek near Bethesda, NC	5.16	1978-81
02122500	Yadkin River at High Rock, NC	4,000	1919-27
02123000	Uwharrie River near Trinity, NC	11.3	1934-41

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

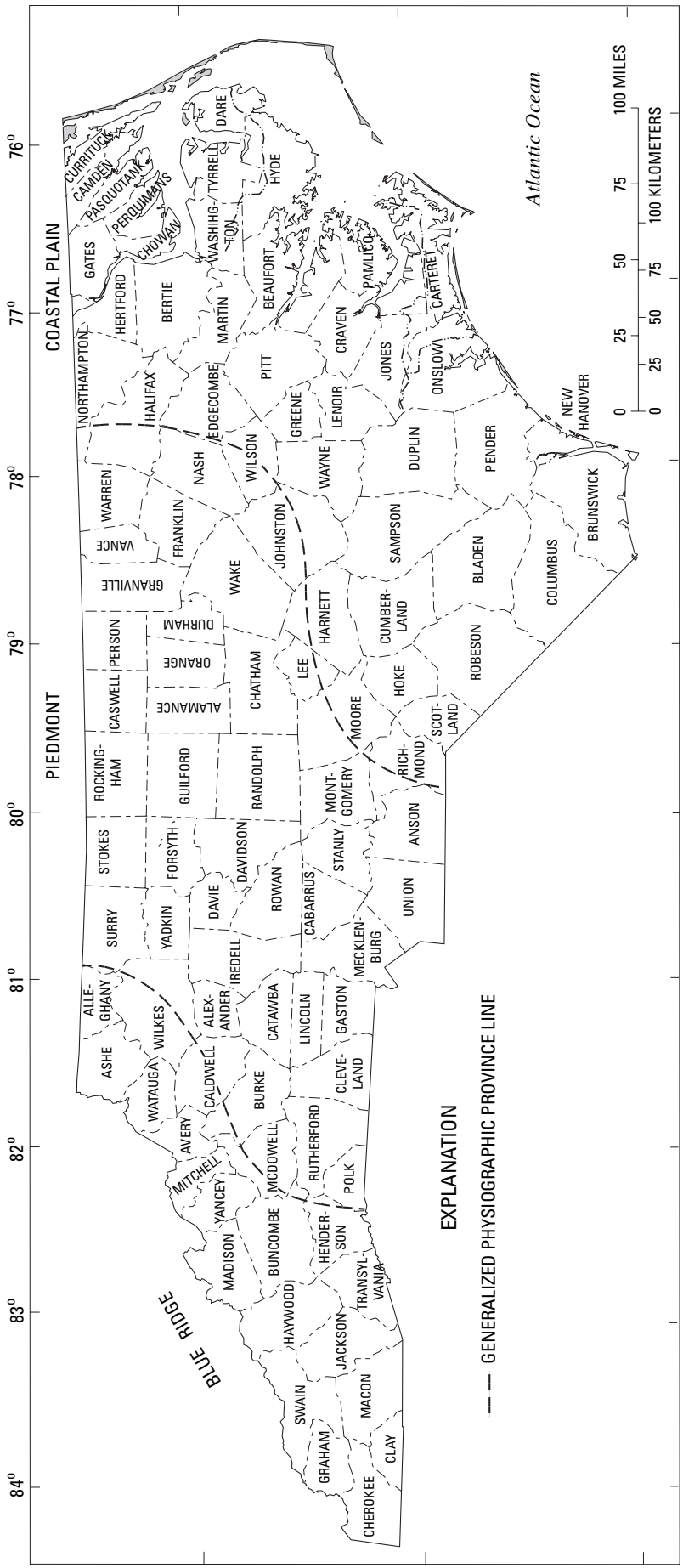
Station number	Station name	Drainage area (mi^2)	Period of record
	Pee Dee River Basin--Continued		
02123500	Uwharrie River near Eldorado, NC	342	1938-71
02123567	Dutchmans Creek near Uwharrie, NC	3.44	1982-83, 1986-04
0212429930	Wiberly Branch near Wilgrove, NC	0.35	1984-93
0212429960	Reedy Creek Tributary No. 2 below Wiberly Branch near Mint Hill, NC	1.00	1988-93
02124471	Dutch Buffalo Creek at NC 49 near Mount Pleasant, NC	45.1	1985-87
02125500	Richardson Creek near Marshville, NC	170	1940-44
02125557	Gourdvine Creek at SR 1715 near Olive Branch, NC	8.75	1978-82
02125696	Lane Creek at SR 2115 near Trinity, NC	3.98	1969-79
02125699	Wicker Branch at SR 1940 near Trinity, NC	5.83	1978-82
02125816	Lane's Creek near Marshville, NC	87.8	1985-87
02126500	Little Brown Creek near Polkton, NC	13.5	1935-41
02127000	Brown Creek near Polkton, NC	110	1937-71
02127500	Pee Dee River near Ansonville, NC	6,330	1938-42
02129500	North Fork Jones Creek near Wadesboro, NC	9.43	1935-41
0213228795	Jordan Creek near Silver Hill, NC	0.36	1983-93
	Santee River Basin		
02137000	Mill Creek at Old Fort, NC	20.7	1960-75
02138000	Catawba River near Marion, NC	172	1941-81
0213875850	High Shoals Creek near Dysartsville, NC	2.38	1986-88
02139200	Bailey Fork near Morganton, NC	7.86	1966-70
02139650	East Prong near Morganton, NC	8.94	1966-74
0214042720	North Harper Creek near Kawana, NC	1.25	1986-88
02141150	Lower Creek at Mulberry Street at Lenoir, NC	31.8	1966-78
02141245	Lower Creek at SR1501 near Morganton, NC	89.5	1993-94
0214183365	Upper Little River at SR1740 near Petra Mills, NC	33.9	1993-94
0214192500	Middle Little River at Moretz Dam near Bethlehem, NC	46.1	1993-94
02142500	Catawba River at Catawba, NC	1,535	1896-99, 1935-62
02142600	Mountain Creek near Terrell, NC	42.4	1957-62
02142651	McDowell Creek at Westmoreland Road near Cornelius, NC	2.35	1994-97
0214266075	Gar Creek at Secondary Road 2120 near Oakdale, NC	2.67	1994-97
0214399575	Long Creek Tributary at Headwaters near Bessemer City, NC	0.16	1993-01
0214399580	Long Creek Tributary below Headwaters near Bessemer City, NC	0.22	1993-01
0214620760	Irwin Creek at Starita Road at Charlotte, NC	4.40	1989-94
0214620805	Irwin Creek Tributary below Starita Road at Charlotte, NC	0.02	1994-98
0214635212	Unnamed Tributary to Sugar Creek at Crompton Street near Charlotte, NC	0.06	1995-98
0214643840	Edwards Branch Tributary Storm Drain at Charlotte, NC	0.02	1994-98
02146450	Briar Creek at Sharon Road, Charlotte, NC	18.5	1962-73
02146500	Little Sugar Creek near Charlotte, NC	41.0	1924-78
0214650690	Little Sugar Creek Tributary at Rose Valley Drive near Charlotte, NC	0.12	1993-98
02146579	Irvin's Creek at Lebanon Road near Mint Hill, NC	5.27	1983-90
0214666925	Four Mile Creek Tributary near Providence, NC	0.27	1994-98
0214669980	McMullen Creek Tributary near Charlotte, NC	0.13	1993-98
0214677974	Steele Creek above Secondary Road 1344 near Shopton, NC	3.57	1990-98
0214678230	Walker Branch at SR1123 near Pine Harbor, NC	4.52	1991-94
02146900	Twelve Mile Creek near Waxhaw, NC	76.5	1960-2004
02148500	Broad River near Chimney Rock, NC	97.0	1927-58
02149702	Green River near Saluda, NC	104	1972-75
02150000	Green River near Mill Spring, NC	174	1940-54
02151000	Second Broad River at Cliffside, NC	220	1925-97
02152000	Sandy Run Creek near Boiling Springs, NC	67.0	1925-28
02152500	First Broad River near Lawndale, NC	200	1940-71
02152610	Sugar Branch near Boiling Springs, NC	1.42	1968-87

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Kanawha River Basin		
03161500	South Fork New River near Crumpler, NC	325	1908-16
03162500	North Fork New River at Crumpler, NC	277	1908-16
			1928-58
	Tennessee River Basin		
03439500	French Broad at Calvert, NC	103	1924-55
03440000	Catheys Creek near Brevard, NC	11.7	1944-55
			1986-2004
03440500	Davidson River near Davidson River, NC	31.0	1904-09
03441440	Little River above High Falls near Cedar Mountain, NC	26.8	1963-90
03441500	Little River near Penrose, NC	41.4	1942-55
03442000	Crab Creek near Penrose, NC	10.9	1942-55
03444000	Boylston Creek near Horseshoe, NC	14.8	1942-55
03444500	South Fork Mills River at the Pink Beds, NC	9.99	1926-49
			1965-73
03445000	South Fork Mills River near Sitton, NC	40.0	1904-09
			1925-26
03445500	North Fork Mills River at Pinkbed, NC	23.1	1904-09
03446500	Clear Creek near Hendersonville, NC	42.2	1945-55
03447000	Mud Creek at Naples, NC	109	1938-55
03447500	Cane Creek at Fletcher, NC	63.1	1942-58
03448000	French Broad River at Bent Creek, NC	676	1933-86
03448500	Hominy Creek at Candler, NC	79.8	1942-77
03448960	North Fork Swannanoa River below Burnett Reservoir near Black Mountain, NC	22.1	1976-77
03449000	North Fork Swannanoa River near Black Mountain, NC	23.8	1926-58
03449500	Swannanoa River at Swannanoa, NC	58.8	1907-09
			1926-31
0345092550	Ross Creek at Beaucatcher Road at Asheville, NC	2.46	1986-89
0345112600	Nasty Branch at Asheville, NC	1.19	1986-89
03451510	Reed Creek above Barnard Avenue at Asheville, NC	2.13	1986-89
03452000	Sandymush Creek near Alexander, NC	79.5	1942-55
03452001	Sandymush Creek 1.1 mile above mouth near Alexander, NC	79.5	1975-77
03454000	Big Laurel Creek near Stackhouse, NC	126	1934-71
03454500	French Broad River at Hot Springs, NC	1,567	1934-49
03456000	West Fork Pigeon River below Lake Logan near Waynesville, NC	55.3	1954-80
0345638607	Unnamed Tributary to Pisgah Creek at Flat Laurel Gap, NC	0.07	2001-03
03457000	Pigeon River at Canton, NC	133	1907-09
			1928-83
03457500	Allen Creek near Hazelwood, NC	14.4	1949-72
03458500	Pigeon River near Crabtree, NC	243	1920-29
03459000	Jonathan Creek near Cove Creek, NC	65.3	1930-72
03460500	Pigeon River near Mount Sterling, NC	460	1924-30
03462000	North Toe River at Altapass, NC	104	1938-57
03462500	North Toe River above Spruce Pine, NC	111	1934-38
03463500	South Toe River at Newdale, NC	60.8	1934-52
03464000	Cane River near Sioux, NC	157	1934-71
03464500	Nolichucky River at Poplar, NC	608	1925-55
03480500	Elk River near Banner Elk, NC	17.8	1934-40
03481000	Elk River near Elk Park, NC	42.0	1934-55
03500500	Cullasaja River at Highlands, NC	14.9	1931-71
03501000	Cullasaja River at Cullasaja, NC	86.5	1907-09
			1921-71
03501500	Little Tennessee River at Franklin, NC	295	1909-10
			1921-25
03502000	Little Tennessee River at Iotla, NC	323	1929-45
03502500	Little Tennessee River at Etna, NC	374	1926-29

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Tennessee River Basin--Continued		
03503500	Little Tennessee River at Almond, NC	451	1912-17
03505500	Nantahala River at Nantahala, NC	144	1942-81
03506500	Nantahala River at Almond, NC	174	1912-17
			1920-43
03507000	Little Tennessee River at Judson, NC	664	1912-44
03508000	Tuckasegee River at Tuckasegee, NC	143	1934-76
03508136	Caney Fork near Cowarts, NC	32.0	1975-76
03508910	Scott Creek at Willets-Ochre Hill, NC	22.4	1993-95
03509000	Scott Creek above Sylva, NC	51.0	1941-75
			1993-95
03509500	Scott Creek at Sylva, NC	55.0	1928-41
03510500	Tuckasegee River at Dillsboro, NC	347	1933-81
03511000	Oconaluftee River at Cherokee, NC	131	1921-49
03513500	Noland Creek near Bryson City, NC	13.8	1935-71
03514000	Hazel Creek at Proctor, NC	44.4	1942-52
03515000	Little Tennessee River at Fontana Dam, NC	1,571	1938-55
03516000	Snowbird Creek near Robbinsville, NC	42.0	1942-52
03517000	Cheoah River at Johnson, NC	177	1912-18
			1920-26
03517500	Cheoah River at Tapoco, NC	215	1924-27
03546000	Shooting Creek near Hayesville, NC	37.6	1922-24
			1942-45
			1946-55
03547000	Hiwassee River below Chatuge Dam near Hayesville, NC	190	1942-74
03548000	Hiwassee River below Hayesville, NC	252	1934-45
03548500	Hiwassee River above Murphy, NC	406	1897-2004
03554000	Nottely River near Ranger, NC	272	1901-05
			1914-17
			1919-29
			1932-45
03555000	Hiwassee River at Hiwassee Dam, NC	968	1934-43



COUNTIES AND PHYSIOGRAPHIC PROVINCES OF NORTH CAROLINA

INTRODUCTION

Water-resources data for the 2005 water year for North Carolina consist of records of stage, discharge, and water quality for streams; stage and contents for lakes and reservoirs; precipitation; and ground-water levels and water quality of ground water. This volume contains discharge records for 215 gaging stations; stage and contents for 60 lakes and reservoirs; stage only records for 25 gaging stations; elevations for 10 stations; water quality for 35 gaging stations and continuous water quality for 19 sites; and continuous precipitation at 127 sites. Additional water data were collected at 53 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements in this report. The collection of water-resources data in North Carolina is a part of the National Water-Data System operated by the U.S. Geological Survey in cooperation with State, municipal, and Federal agencies.

Stream-discharge records, and contents and stage for lakes or reservoirs were first published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were published annually; beginning in 1961, these water-supply papers were published every 5 years through 1970. Records of chemical quality, water temperature, and suspended sediment were published from 1941 to 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Water-supply papers can be found in the libraries of principal cities and universities throughout the United States or can be purchased from the U.S. Geological Survey, Branch of Information Services, Denver Federal Center, Box 25286, Denver, Colorado 80225-0425.

Streamflow data since the 1961 water year and water-quality data since the 1964 water year have been released by the U.S. Geological Survey in annual reports on a State-by-State basis. These reports provide timely release of water data in each State for each water year. Through 1970 these data also were released in the water-supply paper series mentioned above.

Publication of streamflow and water-quality data, beginning with the 1971 water year, and ground-water data, beginning with the 1975 water year, currently are limited to reports on a State-by-State basis. Beginning with the 1975 water year, these Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report NC-05-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161. Beginning with the 2001 water year, water-data reports are available online at *http://nc.water.usgs.gov/reports/WDR/*.

Additional information for ordering specific reports, can be obtained from the Director, North Carolina Water Science Center, at the address listed on the back of the title page of this report or by calling (919) 571-4000.

COOPERATION

Cooperative agreements between the U.S. Geological Survey (USGS) and organizations of the State of North Carolina for the systematic collection of water-resources data began in 1895 and continued through 1909. Following a lapse of 8 years, the State of North Carolina resumed cooperation in October 1918. Organizations that assisted in collecting the data contained in this report through cooperative agreements with the USGS are:

North Carolina Department of Environment and Natural Resources
North Carolina Division of Emergency Management
North Carolina Department of Transportation
Water and Sewer Authority of Cabarrus County
Buncombe County Soil & Water Conservation District
Triangle Area Water Supply Monitoring Steering Committee
Winston-Salem/Forsyth County Utility Commission
City of Morganton
City of Greensboro
City of Raleigh
City of Rocky Mount
City of Durham
City of Charlotte
City of Danville, Virginia
Mecklenburg County
Hiwassee River Watershed Coalition
Pender County Emergency Management
Upper Cape Fear River Basin Association
Asheville-Buncombe Water Authority

The following Federal agencies assisted in the data-collection program by furnishing funds or services:

Corps of Engineers, U.S. Army
Tennessee Valley Authority
U.S. Department of Commerce, NOAA
U.S. Fish & Wildlife Service

The following organizations aided in collecting records:

Progress Energy
Yadkin, Inc.
Blue Ridge Paper Products
Restoration Systems, LLC
Duke Power Company
Tapoco, Inc.
Cook Industries
Weyerhaeuser Company

DOWNSTREAM ORDER AND STATION NUMBER

Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed of both types of stations. Gaps are consecutive. The complete 8-digit (or 10-digit) number for each station such as 09004100, which appears just to the left of the station name, includes a 2-digit part number “09” plus the 6-digit (or 8-digit) downstream order number “004100.” In areas of high station density, an additional two digits may be added to the station identification number to yield a 10-digit number. The stations are numbered in downstream order as described above between stations of consecutive 8-digit numbers.

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The USGS well and miscellaneous site-numbering system is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, and the next 7 digits denote degrees, minutes, and seconds of longitude; the last 2 digits are a sequential number for wells within a 1-second grid. In the event that the latitude-longitude coordinates for a well and miscellaneous site are the same, a sequential number such as “01,” “02,” and so forth, would be assigned as one would for wells (see fig. 1). The 8-digit, downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

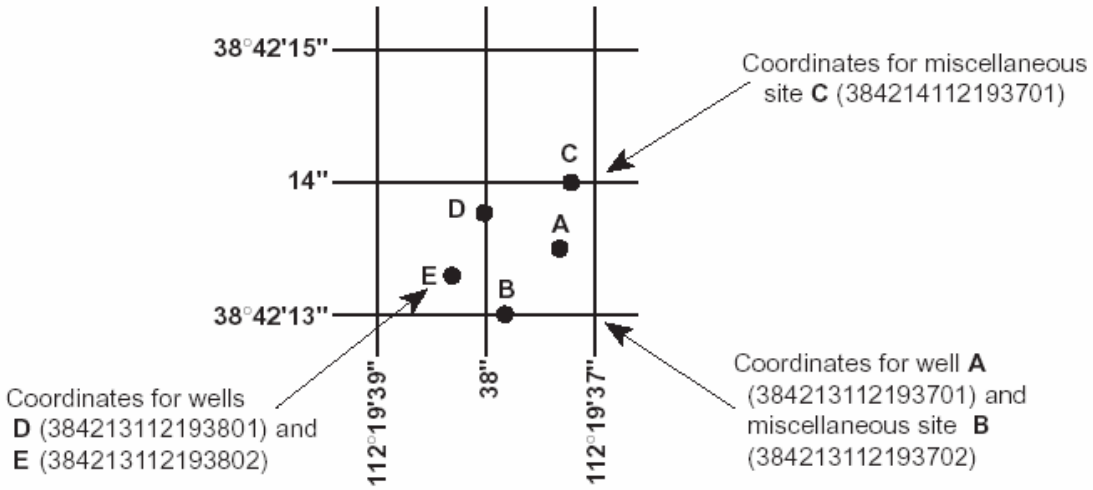


Figure 1. System for numbering wells and miscellaneous sites (latitude and longitude).

Local well numbers in this report generally fall within two numbering systems. All wells are indicated by a two-letter county prefix followed by a sequential number, such as ME-301 for a well in Mecklenburg County and RB-185 for a well in Robeson County. In addition, wells that belong in the statewide North Carolina observation-well program are indicated by the prefix NC- followed by a sequential number, for example NC-160. Ground-water records for North Carolina are published in WDR NC-05-2.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://ny.cf.er.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment (NAWQA) Program; (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The USGS National Water-Quality Assessment (NAWQA) Program is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents is measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a

wide range of spatial and temporal scales will provide information for water-resources managers to use in making decisions and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and Federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key Federal, State, and local water-resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

The USGS National Streamflow Information Program (NSIP) is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations (fig. 2-17) consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from http://water.usgs.gov/pubs/twri/. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standards (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations, and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations in the northern United States, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator’s log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of five parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; (4) a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; and (5) a hydrograph of discharge.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in "River Mileage Measurement," Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers. Latitudes and longitudes used in this report are referenced to the North American Datum of 1983 (NAD83).

DRAINAGE AREA.—Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading. The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29) unless otherwise noted; it is reported with a precision depending on the method of determination.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://water.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the REMARKS and in the inclusion of a stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic average flow in cubic feet per second for the month; and the lines headed MAX and MIN give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (MIN) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those values. The designated period will be expressed as FOR WATER YEARS __-__, BY WATER YEAR (WY), and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript.

Summary Statistics

A table titled SUMMARY STATISTICS follows the statistics of monthly mean data tabulation. This table consists of four columns with the first column containing the line headings of the statistics being

reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, WATER YEARS __-__, will consist of all of the station records within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the ANNUAL 7-DAY MINIMUM statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow clarify information presented under the various line headings of the SUMMARY STATISTICS table.

ANNUAL TOTAL.—The sum of the daily mean values of discharge for the year.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

HIGHEST ANNUAL MEAN.—The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.—The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.—The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.—The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.—The lowest mean discharge for 7 consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. This value should not be confused with the 7-day 10-year low-flow statistic.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information.

INSTANTANEOUS LOW FLOW.—The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.—Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicate the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.—The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.—The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.—The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter “e” and noting in a table footnote, “e–Estimated,” or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The degree of accuracy of the records is stated in the REMARKS in the station description. “Excellent” indicates that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair,” within 15 percent. “Poor” indicates that daily discharges have less than “fair” accuracy. Different accuracies may be attributed to different parts of a given record.

Values of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Water Science Center. Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Water Science Center (see address that is shown on the back of the title page of this report).

EXPLANATION OF PRECIPITATION RECORDS

Data Collection and Computation

Rainfall data generally are collected using electronic data loggers that measure the rainfall in 0.01-inch increments every 15 minutes using either a tipping-bucket rain gage or a collection well gage. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight of the previous day to midnight of the current day. Snowfall-affected data can result during cold weather when snow fills the rain-gage funnel and then melts as temperatures rise. Snowfall-affected data are subject to errors. Missing values are indicated by this symbol “---” in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified with the same station number and name as the stream-gaging station. Where a surface-water daily-record station is not available, the precipitation record is published with its own name and identification number.

Information pertinent to the history of a precipitation station is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, period of record, and general remarks.

The following information is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—See Data Presentation in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

INSTRUMENTATION.—Information on the type of rainfall collection system is given.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of records.

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs., which may be accessed from http://water.usgs.gov/pubs/twri/.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A *miscellaneous sampling site* is a location other than a continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently. Locations of stations for which records on the quality of surface water appear in this report are shown in figures 18 and 19.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating the accuracy of continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured field parameter	Ratings of accuracy (Based on combined fouling and calibration drift corrections applied to the record)			
	Excellent	Good	Fair	Poor
Water temperature	≤ ± 0.2 °C	> ± 0.2 – 0.5 °C	> ± 0.5 – 0.8 °C	> ± 0.8 °C
Specific conductance	≤ ± 3%	> ± 3 – 10%	> ± 10 – 15%	> ± 15%
Dissolved oxygen	≤ ± 0.3 mg/L or ≤ ± 5%, whichever is greater	> ± 0.3 – 0.5 mg/L or > ± 5 – 10%, whichever is greater	> ± 0.5 – 0.8 mg/L or > ± 10 – 15%, whichever is greater	> ± 0.8 mg/L or > ± 15%, whichever is greater
pH	≤ ± 0.2 units	> ± 0.2 – 0.5 units	> ± 0.5 – 0.8 units	> ± 0.8 units
Turbidity	≤ ± 0.5 turbidity units or ≤ ± 5%, whichever is greater	> ± 0.5 – 1.0 turbidity units or > ± 5 – 10%, whichever is greater	> ± 1.0 – 1.5 turbidity units or > ± 10 – 15%, whichever is greater	> ± 1.5 turbidity units or > ± 15%, whichever is greater

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made onsite when the samples are collected. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from http://water.usgs.gov/pubs/twri/. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center office (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same

time each day. Large streams have a small diurnal temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Water Science Center.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are computed by the subdivided-day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided-day method. For periods when no samples were collected, daily discharges of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of suspended-sediment discharge, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included for some stations.

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from http://water.usgs.gov/pubs/twri/. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of “daily values” of

specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

Printed Output	Remark
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a nondetection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte either was not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by a USGS Water Science Center are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank

sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected by this USGS Water Science Center are:

Field blank—A blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank—A blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank—A blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank—A blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank—A blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank—A blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank—A blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory. The reference material composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate Samples

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. Many types of replicate samples are possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

Sequential samples—A type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample—A type of replicate sample in which a sample is split into subsamples, each subsample contemporaneous in time and space.

Spike Samples

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers. Ground-water-level data for North Carolina is published in WDR NC-05-2.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs. (See NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES, p. 3, for a detailed explanation).

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from http://water.usgs.gov/pubs/twri/. The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown and each well is identified by its local well or county well number on maps in WDR NC-05-2.

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are referenced to the North American Datum of 1983 (NAD83).

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and changes since construction.

INSTRUMENTATION.—This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above National Geodetic Vertical Datum of 1929 (NGVD 29) unless otherwise noted; it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may afffect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words “to current year” if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

EXTREMES FOR PERIOD OF RECORD.—This entry contains the highest and lowest instantaneously recorded or measured water levels of the period of published record, with respect to land-surface datum or sea level, and the dates of occurrence.

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

Hydrographs

Hydrographs are a graphic display of water-level fluctuations over a period of time. In this report, current water year and, when appropriate, period-of-record hydrographs are shown. Hydrographs that display periodic water-level measurements show points that may be connected with a dashed line from one measurement to the next. Hydrographs that display recorder data show a solid line representing the mean water level recorded for each day. Missing data are indicated by a blank space or break in a hydrograph. Missing data may occur as a result of recorder malfunctions, battery failures, or mechanical problems related to the response of the recorder's float mechanism to water-level fluctuations in a well.

GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from http://water.usgs.gov/pubs/twri/. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center (see address shown on back of title page in this report).

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2 and Book 5, Chapters A1, A3, and A4, which may be accessed from http://water.usgs.gov/pubs/twri/.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each Water Science Center. (See address that is shown on the back of the title page of this report.)

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DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an "unfiltered" sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is a unit of volume, commonly used to measure quantities of water used or stored, equivalent to the volume of water required to cover 1 acre to a depth of 1 foot and equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters. (See also "Annual runoff")

Adenosine triphosphate (ATP) is an organic, phosphate-rich compound important in the transfer of energy in organisms. Its central role in living cells makes ATP an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Adjusted discharge is discharge data that have been mathematically adjusted (for example, to remove the effects of a daily tide cycle or reservoir storage).

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample. (See also "Biomass" and "Dry weight")

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a "filtered" sample.

Annual runoff is the total quantity of water that is discharged ("runs off") from a drainage basin in a year. Data reports may present annual runoff data as volumes in acre-feet, as discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches.

Annual 7-day minimum is the lowest mean value for any 7-consecutive-day period in a year. Annual 7-day minimum values are reported herein for the calendar year and the water year (October 1 through September 30). Most low-flow frequency analyses use a climatic year (April 1-March 31), which tends to prevent the low-flow period from being artificially split between adjacent years. The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day, 10-year low-flow statistic.)

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type, and the last two digits represent the percentage weight of the hydrogen-substituted chlorine.

Artificial substrate is a device that purposely is placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is collected. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection. (See also "Substrate")

Ash mass is the mass or amount of residue present after the residue from a dry-mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2). (See also "Biomass" and "Dry mass")

Aspect is the direction toward which a slope faces with respect to the compass.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, whereas others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Bankfull stage, as used in this report, is the stage at which a stream first overflows its natural banks formed by floods with 1- to 3-year recurrence intervals.

Base discharge (for peak discharge) is a discharge value, determined for selected stations, above which peak discharge data are published. The base discharge at each station is selected so that an average of about three peak flows per year will be published. (See also "Peak flow")

Base flow is sustained flow of a stream in the absence of direct runoff. It includes natural and human-induced streamflows. Natural base flow is sustained largely by ground-water discharge.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed. (See also "Bedload" and "Sediment")

Bedload is material in transport that primarily is supported by the streambed. In this report, bedload is considered to consist of particles in transit from the bed to the top of the bedload sampler nozzle (an elevation ranging from 0.25 to 0.5 foot). These particles are retained in the bedload sampler. A sample collected with a pressure-differential bedload sampler also may contain a component of the suspended load.

Bedload discharge (tons per day) is the rate of sediment moving as bedload, reported as dry weight, that passes through a cross section in a given time. NOTE: Bedload discharge values in this report may include a component of the suspended-sediment discharge. A correction may be necessary when computing the total sediment discharge by summing the bedload discharge and the suspended-sediment discharge. (See also "Bedload," "Dry weight," "Sediment," and "Suspended-sediment discharge")

Benthic organisms are the group of organisms inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Biomass pigment ratio is an indicator of the total proportion of periphyton that are autotrophic (plants). This also is called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton and periphyton organisms with a blue pigment in addition to a green pigment called chlorophyll. Blue-green algae can cause nuisance water-quality conditions in lakes and slow-flowing rivers; however, they are found commonly in streams throughout the year. The abundance of blue-green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of blue-green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton"and "Periphyton")

Bottom material (See "Bed material")

Bulk electrical conductivity is the combined electrical conductivity of all material within a doughnut-shaped volume surrounding an induction probe. Bulk conductivity is affected by different physical and chemical properties of the material including the dissolved-solids content of the pore water, and the lithology and porosity of the rock.

Canadian Geodetic Vertical Datum 1928 is a geodetic datum derived from a general adjustment of Canada's first order level network in 1928.

Cell volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are used frequently in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements or cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

$$\text{sphere } 4/3\ \pi r^3 \quad \text{cone } 1/3\ \pi r^2 h \quad \text{cylinder } \pi r^2 h.$$

pi (π) is the ratio of the circumference to the diameter of a circle; pi = 3.14159….

From cell volume, total algal biomass expressed as biovolume (μm^3/mL) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes for all species.

Cells/volume refers to the number of cells of any organism that is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per

sample volume, and generally are reported as cells or units per milliliter (mL) or liter (L).

Cfs-day (See "Cubic foot per second-day")

Channel bars, as used in this report, are the lowest prominent geomorphic features higher than the channel bed.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes. [See also "Biochemical oxygen demand (BOD)"]

Clostridium perfringens *(C. perfringens)* is a spore-forming bacterium that is common in the feces of human and other warmblooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and the presence of microorganisms that are resistant to disinfection and environmental stresses. (See also "Bacteria")

Coliphages are viruses that infect and replicate in coliform bacteria. They are indicative of sewage contamination of water and of the survival and transport of viruses in the environment.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases, the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site where data are collected with sufficient frequency to define daily mean values and variations within a day.

Control designates a feature in the channel that physically affects the water-surface elevation and thereby determines the stage-discharge relation at the gage. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure, as used in this report, is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second or approximately 449 gallons per minute, or 0.02832 cubic meters per second. The term "second-foot" sometimes is used synonymously with "cubic foot per second" but is now obsolete.

Cubic foot per second-day (CFS-DAY, Cfs-day, [$(ft^3/s)/d$]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.98347 acre-feet, 646,317 gallons, or 2,446.6 cubic meters. The daily mean discharges reported in the daily value data tables numerically are equal to the daily volumes in cfs-days, and the totals also represent volumes in cfs-days.

Cubic foot per second per square mile [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area. (See also "Annual runoff")

Daily mean suspended-sediment concentration is the time-weighted mean concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Sediment" and "Suspended-sediment concentration")

Daily record station is a site where data are collected with sufficient frequency to develop a record of one or more data values per day. The frequency of data collection can range from continuous recording to data collection on a daily or near-daily basis.

Data collection platform (DCP) is an electronic instrument that collects, processes, and stores data from various sensors, and transmits the data by satellite data relay, line-of-sight radio, and/or landline telemetry.

Data logger is a microprocessor-based data acquisition system designed specifically to acquire, process, and store data. Data usually are downloaded from onsite data loggers for entry into office data systems.

Datum is a surface or point relative to which measurements of height and/or horizontal position are reported. A vertical datum is a horizontal surface used as the zero point for measurements of gage height, stage, or elevation; a horizontal datum is a reference for positions given in terms of latitude-longitude, State Plane coordinates, or Universal Transverse Mercator (UTM) coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Verti-

cal Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms *(Bacillariophyta)* are unicellular or colonial algae with a siliceous cell wall. The abundance of diatoms in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of diatoms in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or **flow**, is the rate that matter passes through a cross section of a stream channel or other water body per unit of time. The term commonly refers to the volume of water (including, unless otherwise stated, any sediment or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, and so forth, within a given period of time (cubic feet per second). Discharge also can apply to the rate at which constituents, such as suspended sediment, bedload, and dissolved or suspended chemicals, pass through a cross section, in which cases the quantity is expressed as the mass of constituent that passes the cross section in a given period of time (tons per day).

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal and State agencies that collect water-quality data. Determinations of "dissolved" constituent concentrations are made on sample water that has been filtered.

Dissolved oxygen (DO) is the molecular oxygen (oxygen gas) dissolved in water. The concentration in water is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved-solids concentration. Photosynthesis and respiration by plants commonly cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration in water is the quantity of dissolved material in a sample of water. It is determined either analytically by the "residue-on-evaporation" method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During the analytical determination, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. In the mathematical calculation, the bicarbonate value, in milligrams per liter, is multiplied by 0.4917 to convert it to carbonate. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index (H) (Shannon index) is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n},$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a stream at a specific location is that area upstream from the location, measured in a horizontal plane, that has a common outlet at the site for its surface runoff from precipitation that normally drains by gravity into a stream. Drainage areas given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth's surface that contains a drainage system with a common outlet for its surface runoff. (See "Drainage area")

Dry mass refers to the mass of residue present after drying in an oven at 105 °C, until the mass remains unchanged. This mass represents the total organic matter, ash and sediment, in the sample. Dry-mass values are expressed in the same units as ash mass. (See also "Ash mass," "Biomass," and "Wet mass")

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue. (See also "Wet weight")

Embeddedness is the degree to which gravel-sized and larger particles are surrounded or enclosed by finer-sized particles. (See also "Substrate embeddedness class")

Enterococcus bacteria commonly are found in the feces of humans and other warmblooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar (nutrient medium for bacterial growth) and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus*

feacium, Streptococcus avium, and their variants. (See also "Bacteria")

EPT Index is the total number of distinct taxa within the insect orders Ephemeroptera, Plecoptera, and Trichoptera. This index summarizes the taxa richness within the aquatic insects that generally are considered pollution sensitive; the index usually decreases with pollution.

Escherichia coli *(E. coli)* are bacteria present in the intestine and feces of warmblooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Estimated (E) value of a concentration is reported when an analyte is detected and all criteria for a positive result are met. If the concentration is less than the method detection limit (MDL), an E code will be reported with the value. If the analyte is identified qualitatively as present, but the quantitative determination is substantially more uncertain, the National Water Quality Laboratory will identify the result with an E code even though the measured value is greater than the MDL. A value reported with an E code should be used with caution. When no analyte is detected in a sample, the default reporting value is the MDL preceded by a less than sign (<). For bacteriological data, concentrations are reported as estimated when results are based on non-ideal colony counts.

Euglenoids (*Euglenophyta*) are a group of algae that usually are free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark. (See also "Phytoplankton")

Extractable organic halides (EOX) are organic compounds that contain halogen atoms such as chlorine. These organic compounds are semivolatile and extractable by ethyl acetate from air-dried streambed sediment. The ethyl acetate extract is combusted, and the concentration is determined by microcoulometric determination of the halides formed. The concentration is reported as micrograms of chlorine per gram of the dry weight of the streambed sediment.

Fecal coliform bacteria are present in the intestines or feces of warmblooded animals. They often are used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Fecal streptococcal bacteria are present in the intestines of warmblooded animals and are ubiquitous in the environment. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample. (See also "Bacteria")

Filtered pertains to constituents in a water sample passed through a filter of specified pore diameter, most commonly 0.45 micrometer or less for inorganic analytes and 0.7 micrometer for organic analytes.

Filtered, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that has passed through a filter has been extracted. Complete recovery is not achieved by the extraction procedure and thus the analytical determination represents something less than 95 percent of the total constituent concentration in the sample. To achieve comparability of analytical data, equivalent extraction procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Fire algae (*Pyrrhophyta*) are free-swimming unicells characterized by a red pigment spot. (See also "Phytoplankton")

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is exceeded. For example, the 90th percentile of river flow is the streamflow exceeded 90 percent of the time in the period of interest.

Gage datum is a horizontal surface used as a zero point for measurement of stage or gage height. This surface usually is located slightly below the lowest point of the stream bottom such that the gage height is usually slightly greater than the maximum depth of water. Because the gage datum is not an actual physical object, the datum is usually defined by specifying the elevations of permanent reference marks such as bridge abutments and survey monuments, and the gage is set to agree with the reference marks. Gage datum is a local datum that is maintained independently of any national geodetic datum. However, if the elevation of the gage datum relative to the national datum (North American Vertical Datum of 1988 or National Geodetic Vertical Datum of 1929) has been determined, then the gage readings can be converted to elevations above the national datum by adding the elevation of the gage datum to the gage reading.

Gage height (G.H.) is the water-surface elevation, in feet above the gage datum. If the water surface is below the gage datum, the gage height is negative. Gage height often is used interchangeably with the more general term "stage," although gage height is more appropriate when used in reference to a reading on a gage.

Gage values are values that are recorded, transmitted, and/or computed from a gaging station. Gage values typically are collected at 5-, 15-, or 30-minute intervals.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Geomorphic channel units, as used in this report, are fluvial geomorphic descriptors of channel shape and stream velocity. Pools, riffles, and runs are types of geomorphic channel units considered for National Water-Quality Assessment (NAWQA) Program habitat sampling.

Green algae *(Chlorophyta)* are unicellular or colonial algae with chlorophyll pigments similar to those in terrestrial green plants. Some forms of green algae produce mats or floating "moss" in lakes. The abundance of green algae in phytoplankton samples is expressed as the number of cells per milliliter (cells/mL) or biovolume in cubic micrometers per milliliter (μm^3/mL). The abundance of green algae in periphyton samples is given in cells per square centimeter (cells/cm^2) or biovolume per square centimeter ($\mu m^3/cm^2$). (See also "Phytoplankton" and "Periphyton")

Habitat, as used in this report, includes all nonliving (physical) aspects of the aquatic ecosystem, although living components like aquatic macrophytes and riparian vegetation also are usually included. Measurements of habitat typically are made over a wider geographic scale than are measurements of species distribution.

Habitat quality index is the qualitative description (level 1) of instream habitat and riparian conditions surrounding the reach sampled. Scores range from 0 to 100 percent with higher scores indicative of desirable habitat conditions for aquatic life. Index only applicable to wadable streams.

Hardness of water is a physical-chemical characteristic that commonly is recognized by the increased quantity of soap required to produce lather. It is computed as the sum of equivalents of polyvalent cations (primarily calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. See NOAA Web site: *http://www.csc.noaa.gov/text/glossary.html* (see "High water")

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution that uses tolerance values to weight taxa abundances; usually increases with pollution. It is calculated as follows:

$$HBI = sum\frac{(n)(a)}{N},$$

where n is the number of individuals of each taxon, a is the tolerance value of each taxon, and N is the total number of organisms in the sample.

Horizontal datum (See "Datum")

Hydrologic index stations referred to in this report are continuous-record gaging stations that have been selected as representative of streamflow patterns for their respective regions. Station locations are shown on index maps.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the USGS. Each hydrologic unit is identified by an 8-digit number.

Inch (IN., in.), in reference to streamflow, as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were distributed uniformly on it. (See also "Annual runoff")

Instantaneous discharge is the discharge at a particular instant of time. (See also "Discharge")

International Boundary Commission Survey Datum refers to a geodetic datum established at numerous monuments along the United States-Canada boundary by the International Boundary Commission.

Island, as used in this report, is a mid-channel bar that has permanent woody vegetation, is flooded once a year, on average, and remains stable except during large flood events.

Laboratory reporting level (LRL) generally is equal to twice the yearly determined long-term method detection level (LT-MDL). The LRL controls false negative error. The probability of falsely reporting a nondetection for a sample that contained an analyte at a concentration equal to or greater than the LRL is predicted to be less than or

equal to 1 percent. The value of the LRL will be reported with a "less than" (<) remark code for samples in which the analyte was not detected. The National Water Quality Laboratory (NWQL) collects quality-control data from selected analytical methods on a continuing basis to determine LT-MDLs and to establish LRLs. These values are reevaluated annually on the basis of the most current quality-control data and, therefore, may change. The LRL replaces the term 'non-detection value' (NDV).

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Latent heat flux (often used interchangeably with latent heat-flux density) is the amount of heat energy that converts water from liquid to vapor (evaporation) or from vapor to liquid (condensation) across a specified cross-sectional area per unit time. Usually expressed in watts per square meter.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation:

$$I = I_o e^{-\lambda L},$$

where I_o is the source light intensity, I is the light intensity at length L (in meters) from the source, λ is the light-attenuation coefficient, and e is the base of the natural logarithm. The light-attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o}.$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Long-term method detection level (LT-MDL) is a detection level derived by determining the standard deviation of a minimum of 24 method detection limit (MDL) spike-sample measurements over an extended period of time. LT-MDL data are collected on a continuous basis to assess year-to-year variations in the LT-MDL. The LT-MDL controls false positive error. The chance of falsely reporting a concentration at or greater than the LT-MDL for a sample that did not contain the analyte is predicted to be less than or equal to 1 percent.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. See NOAA Website: *http://www.csc.noaa.gov/text/glossary.html* (see "Low water")

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that usually are arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Mean concentration of suspended sediment (Daily mean suspended-sediment concentration) is the time-weighted concentration of suspended sediment passing a stream cross section during a given time period. (See also "Daily mean suspended-sediment concentration" and "Suspended-sediment concentration")

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period. (See also "Discharge")

Mean high or **low tide** is the average of all high or low tides, respectively, over a specific period.

Mean sea level is a local tidal datum. It is the arithmetic mean of hourly heights observed over the National Tidal Datum Epoch. Shorter series are specified in the name; for example, monthly mean sea level and yearly mean sea level. In order that they may be recovered when needed, such datums are referenced to fixed points known as benchmarks. (See also "Datum")

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Megahertz is a unit of frequency. One megahertz equals one million cycles per second.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Method code is a one-character code that identifies the analytical or field method used to determine a value stored in the National Water Information System (NWIS).

Method detection limit (MDL) is the minimum concentration of a substance that can be measured and reported with 99-percent confidence that the analyte concentration is greater than zero. It is determined from the analysis of a

sample in a given matrix containing the analyte. At the MDL concentration, the risk of a false positive is predicted to be less than or equal to 1 percent.

Method of Cubatures is a method of computing discharge in tidal estuaries based on the conservation of mass equation.

Methylene blue active substances (MBAS) indicate the presence of detergents (anionic surfactants). The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, µg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, µg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, µg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. One microgram per liter is equivalent to 1 part per billion.

Microsiemens per centimeter (US/CM, µS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in milligrams per liter and is based on the mass of dry sediment per liter of water-sediment mixture.

Minimum reporting level (MRL) is the smallest measured concentration of a constituent that may be reliably reported by using a given analytical method.

Miscellaneous site, miscellaneous station, or miscellaneous sampling site is a site where streamflow, sediment, and/or water-quality data or water-quality or sediment samples are collected once, or more often on a random or discontinuous basis to provide better areal coverage for defining hydrologic and water-quality conditions over a broad area in a river basin.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD 29) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It formerly was called "Sea Level Datum of 1929" or "mean sea level." Although the datum was derived from the mean sea level at 26 tide stations**,** it does not necessarily represent local mean sea level at any particular place. *See NOAA Web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88* (See "North American Vertical Datum of 1988")

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives. (See also "Substrate")

Nekton are the consumers in the aquatic environment and consist of large, free-swimming organisms that are capable of sustained, directed mobility.

Nonfilterable refers to the portion of the total residue retained by a filter.

North American Datum of 1927 (NAD 27) is the horizontal control datum for the United States that was defined by a location and azimuth on the Clarke spheroid of 1866.

North American Datum of 1983 (NAD 83) is the horizontal control datum for the United States, Canada, Mexico, and Central America that is based on the adjustment of 250,000 points including 600 satellite Doppler stations that constrain the system to a geocentric origin. NAD 83 has been officially adopted as the legal horizontal datum for the United States by the Federal government.

North American Vertical Datum of 1988 (NAVD 88) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and

mapping activities in the United States. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and United States first-order terrestrial leveling networks.

Open or **screened interval** is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediment. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or **volatile mass** of a living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass. (See also "Ash mass," "Biomass," and "Dry mass")

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter code is a 5-digit number used in the USGS computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method uses the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification, as used in this report, agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay	>0.00024 - 0.004	Sedimentation
Silt	>0.004 - 0.062	Sedimentation
Sand	>0.062 - 2.0	Sedimentation/sieve
Gravel	>2.0 - 64.0	Sieve
Cobble	>64 - 256	Manual measurement
Boulder	>256	Manual measurement

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. For the sedimentation method, most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Peak flow (peak stage) is an instantaneous local maximum value in the continuous time series of streamflows or stages, preceded by a period of increasing values and followed by a period of decreasing values. Several peak values ordinarily occur in a year. The maximum peak value in a year is called the annual peak; peaks lower than the annual peak are called secondary peaks. Occasionally, the annual peak may not be the maximum value for the year; in such cases, the maximum value occurs at midnight at the beginning or end of the year, on the recession from or rise toward a higher peak in the adjoining year. If values are recorded at a discrete series of times, the peak recorded value may be taken as an approximation of the true peak, which may occur between the recording instants. If the values are recorded with finite precision, a sequence of equal recorded values may occur at the peak; in this case, the first value is taken as the peak.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, mass, or volume.

Percent shading is a measure of the amount of sunlight potentially reaching the stream. A clinometer is used to measure left and right bank canopy angles. These values are added together, divided by 180, and multiplied by 100 to compute percentage of shade.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measure-

ments are made one or more times during a year but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. Although primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7.0 standard units are termed "acidic," and solutions with a pH greater than 7.0 are termed "basic." Solutions with a pH of 7.0 are neutral. The presence and concentration of many dissolved chemical constituents found in water are affected, in part, by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms also are affected, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They usually are microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and commonly are known as algae. (See also "Plankton")

Picocurie (PC, pCi) is one-trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (Ci). A curie is the quantity of radioactive nuclide that yields 3.7×10^{10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample.

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCNs) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCBs) and have been identified in commercial PCB preparations.

Pool, as used in this report, is a small part of a stream reach with little velocity, commonly with water deeper than surrounding areas.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. The carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light- and dark-bottle method and is preferred for use with unenriched water samples. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. The oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light- and dark-bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period. (See also "Primary productivity")

Radioisotopes are isotopic forms of elements that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Reach, as used in this report, is a length of stream that is chosen to represent a uniform set of physical, chemical, and biological conditions within a segment. It is the principal sampling unit for collecting physical, chemical, and biological data.

Recoverable is the amount of a given constituent that is in solution after a representative water sample has been

extracted or digested. Complete recovery is not achieved by the extraction or digestion and thus the determination represents something less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also "Bed material")

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or nonexceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100 years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day, 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the nonexceedances of the $7Q_{10}$ occur less than 10 years after the previous nonexceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous nonexceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

Return period (See "Recurrence interval")

Riffle, as used in this report, is a shallow part of the stream where water flows swiftly over completely or partially submerged obstructions to produce surface agitation.

River mileage is the curvilinear distance, in miles, measured upstream from the mouth along the meandering path of a stream channel in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council and typically is used to denote location along a river.

Run, as used in this report, is a relatively shallow part of a stream with moderate velocity and little or no surface turbulence.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin during a given time period. Runoff data may be presented as volumes in acre-feet, as mean discharges per unit of drainage area in cubic feet per second per square mile, or as depths of water on the drainage basin in inches. (See also "Annual runoff")

Salinity is the total quantity of dissolved salts, measured by weight in parts per thousand. Values in this report are calculated from specific conductance and temperature. Seawater has an average salinity of about 35 parts per thousand (for additional information, refer to: Miller, R.L., Bradford, W.L., and Peters, N.E., 1988, Specific conductance: theoretical considerations and application to analytical quality control: U.S. Geological Survey Water-Supply Paper 2311, 16 p.)

Sea level, as used in this report, refers to one of the two commonly used national vertical datums (NGVD 1929 or NAVD 1988). See separate entries for definitions of these datums.

Sediment is solid material that originates mostly from disintegrated rocks; when transported by, suspended in, or deposited from water, it is referred to as "fluvial sediment." Sediment includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are affected by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Sensible heat flux (often used interchangeably with latent sensible heat-flux density) is the amount of heat energy that moves by turbulent transport through the air across a specified cross-sectional area per unit time and goes to heating (cooling) the air. Usually expressed in watts per square meter.

Seven-day, 10-year low flow ($7Q_{10}$) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-term average. The recurrence interval of the $7Q_{10}$ is 10 years; the chance that the annual 7-day minimum flow will be less than the $7Q_{10}$ is 10 percent in any given year. (See also "Annual 7-day minimum" and "Recurrence interval")

Shelves, as used in this report, are streambank features extending nearly horizontally from the flood plain to the lower limit of persistent woody vegetation.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Sodium hazard in water is an index that can be used to evaluate the suitability of water for irrigating crops.

Soil heat flux (often used interchangeably with soil heat-flux density) is the amount of heat energy that moves by conduction across a specified cross-sectional area of soil per unit time and goes to heating (or cooling) the soil. Usually expressed in watts per square meter.

Soil-water content is the water lost from the soil upon drying to constant mass at 105 °C; expressed either as mass of water per unit mass of dry soil or as the volume of water per unit bulk volume of soil.

Specific electrical conductance (conductivity) is a measure of the capacity of water (or other media) to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific electrical conductance is a function of the types and quantity of dissolved substances in water and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific water, to evaluate mixing of different water, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage (See "Gage height")

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Substrate embeddedness class is a visual estimate of riffle streambed substrate larger than gravel that is surrounded or covered by fine sediment (<2 mm, sand or finer). Below are the class categories expressed as the percentage covered by fine sediment:

0	no gravel or larger substrate	3	26-50 percent
1	> 75 percent	4	5-25 percent
2	51-75 percent	5	< 5 percent

Surface area of a lake is that area (acres) encompassed by the boundary of the lake as shown on USGS topographic maps, or other available maps or photographs. Because surface area changes with lake stage, surface areas listed in this report represent those determined for the stage at the time the maps or photographs were obtained.

Surficial bed material is the upper surface (0.1 to 0.2 foot) of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Surrogate is an analyte that behaves similarly to a target analyte, but that is highly unlikely to occur in a sample. A surrogate is added to a sample in known amounts before extraction and is measured with the same laboratory procedures used to measure the target analyte. Its purpose is to monitor method performance for an individual sample.

Suspended is the amount (concentration) of undissolved material in a water-sediment mixture. Most commonly refers to that material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45-micrometer filter has been extracted or digested. Complete recovery is not achieved by the extraction or digestion procedures and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results. (See also "Suspended")

Suspended sediment is sediment carried in suspension by the turbulent components of the fluid or by the Brownian movement (a law of physics). (See also "Sediment")

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 foot above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The analytical technique uses the mass of all of the sediment and the net weight of the water-sediment mixture in a sample to compute the suspended-sediment concentration. (See also "Sediment" and "Suspended sediment")

Suspended-sediment discharge (tons/d) is the rate of sediment transport, as measured by dry mass or volume, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027. (See also "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Suspended-sediment load is a general term that refers to a given characteristic of the material in suspension that passes a point during a specified period of time. The term needs to be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It is not synonymous with either suspended-sediment discharge or concentration. (See also "Sediment")

Suspended solids, total residue at 105 °C concentration is the concentration of inorganic and organic material retained on a filter, expressed as milligrams of dry material per liter of water (mg/L). An aliquot of the sample is used for this analysis.

Suspended, total is the total amount of a given constituent in the part of a water-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total." Determinations of "suspended, total" constituents are made either by directly analyzing portions of the suspended material collected on the filter or, more commonly, by difference, on the basis of determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

Synoptic studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxa (Species) richness is the number of species (taxa) present in a defined area or sampling unit.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom:	Animal
Phylum:	Arthropeda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Thalweg is the line formed by connecting points of minimum streambed elevation (deepest part of the channel).

Thermograph is an instrument that continuously records variations of temperature on a chart. The more general term "temperature recorder" is used in the table descriptions and refers to any instrument that records temperature whether on a chart, a tape, or any other medium.

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water resulting from the mixing of flow proportionally to the duration of the concentration.

Tons per acre-foot (T/acre-ft) is the dry mass (tons) of a constituent per unit volume (acre-foot) of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is a common chemical or sediment discharge unit. It is the quantity of a substance in solution, in suspension, or as bedload that passes a stream section during a 24-hour period. It is equivalent to 2,000 pounds per day, or 0.9072 metric ton per day.

Total is the amount of a given constituent in a representative whole-water (unfiltered) sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determined at least 95 percent of the constituent in the sample.)

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warmblooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-

negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters of sample. (See also "Bacteria")

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total organism count is the number of organisms collected and enumerated in any particular sample. (See also "Organism count/volume")

Total recoverable is the amount of a given constituent in a whole-water sample after a sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data for whole-water samples, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures may produce different analytical results.

Total sediment discharge is the mass of suspended-sediment plus bed-load transport, measured as dry weight, that passes a cross section in a given time. It is a rate and is reported as tons per day. (See also "Bedload," "Bedload discharge," "Sediment," "Suspended sediment," and "Suspended-sediment concentration")

Total sediment load or **total load** is the sediment in transport as bedload and suspended-sediment load. The term may be qualified, such as "annual suspended-sediment load" or "sand-size suspended-sediment load," and so on. It differs from total sediment discharge in that load refers to the material, whereas discharge refers to the quantity of material, expressed in units of mass per unit time. (See also "Sediment," "Suspended-sediment load," and "Total load")

Transect, as used in this report, is a line across a stream perpendicular to the flow and along which measurements are taken, so that morphological and flow characteristics along the line are described from bank to bank. Unlike a cross section, no attempt is made to determine known elevation points along the line.

Turbidity is an expression of the optical properties of a liquid that causes light rays to be scattered and absorbed rather than transmitted in straight lines through water. Turbidity, which can make water appear cloudy or muddy, is caused by the presence of suspended and dissolved matter, such as clay, silt, finely divided organic matter, plankton and other microscopic organisms, organic acids, and dyes (ASTM International, 2003, D1889–00 Standard test method for turbidity of water, *in* ASTM International, Annual Book of ASTM Standards, Water and Environmental Technology, v. 11.01: West Conshohocken, Pennsylvania, 6 p.). The color of water, whether resulting from dissolved compounds or suspended particles, can affect a turbidity measurement. To ensure that USGS turbidity data can be understood and interpreted properly within the context of the instrument used and site conditions encountered, data from each instrument type are stored and reported in the National Water Information System (NWIS) using parameter codes and measurement reporting units that are specific to the instrument type, with specific instruments designated by the method code. The respective measurement units, many of which also are in use internationally, fall into two categories: (1) the designations NTU, NTRU, BU, AU, and NTMU signify the use of a broad spectrum incident light in the wavelength range of 400-680 nanometers (nm), but having different light detection configurations; (2) The designations FNU, FNRU, FBU, FAU, and FNMU generally signify an incident light in the range between 780-900 nm, also with varying light detection configurations. These reporting units are equivalent when measuring a calibration solution (for example, formazin or polymer beads), but their respective instruments may not produce equivalent results for environmental samples. Specific reporting units are as follows:

NTU (Nephelometric Turbidity Units): white or broadband [400-680 nm] light source, 90 degree detection angle, one detector.

NTRU (Nephelometric Turbidity Ratio Units): white or broadband [400-680 nm] light source, 90 degree detection angle, multiple detectors with ratio compensation.

BU (Backscatter Units): white or broadband [400-680 nm] light source, 30 ± 15 degree detection angle (backscatter).

AU (Attenuation Units): white or broadband [400-680 nm] light source, 180 degree detection angle (attenuation).

NTMU (Nephelometric Turbidity Multibeam Units): white or broadband [400-680 nm] light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

FNU (Formazin Nephelometric Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, one detector.

FNRU (Formazin Nephelometric Ratio Units): near infrared [780-900 nm] or monochrome light source, 90 degree detection angle, multiple detectors, ratio compensation.

FBU (Formazin Backscatter Units): near infrared [780-900 nm] or monochrome light source, 30±15 degree detection angle.

FAU (Formazin Attenuation Units): near infrared [780-900 nm] light source, 180 degree detection angle.

FNMU (Formazin Nephelometric Multibeam Units): near infrared [780-900 nm] or monochrome light source, multiple light sources, detectors at 90 degrees and possibly other angles to each beam.

For more information please see http://water.usgs.gov/owq/FieldManual/Chapter6/6.7_contents.html.

Ultraviolet (UV) absorbance (absorption) at 254 or 280 nanometers is a measure of the aggregate concentration of the mixture of UV absorbing organic materials dissolved in the analyzed water, such as lignin, tannin, humic substances, and various aromatic compounds. UV absorbance (absorption) at 254 or 280 nanometers is measured in UV absorption units per centimeter of path length of UV light through a sample.

Unconfined aquifer is an aquifer whose upper surface is a water table free to fluctuate under atmospheric pressure. (See "Water-table aquifer")

Unfiltered pertains to the constituents in an unfiltered, representative water-suspended sediment sample.

Unfiltered, recoverable is the amount of a given constituent in a representative water-suspended sediment sample that has been extracted or digested. Complete recovery is not achieved by the extraction or digestion treatment and thus the determination represents less than 95 percent of the constituent present in the sample. To achieve comparability of analytical data, equivalent extraction or digestion procedures are required of all laboratories performing such analyses because different procedures are likely to produce different analytical results.

Vertical datum (See "Datum")

Volatile organic compounds (VOCs) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and, subsequently, analyzed by gas chromatography. Many VOCs are human-made chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They often are components of fuels, solvents, hydraulic fluids, paint thinners, and dry-cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human-health concern because many are toxic and are known or suspected human carcinogens.

Water table is that surface in a ground-water body at which the water pressure is equal to the atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which the water table is found.

Water year in USGS reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 2002, is called the "2002 water year."

Watershed (See "Drainage basin")

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Wet mass is the mass of living matter plus contained water. (See also “Biomass” and “Dry mass”)

Wet weight refers to the weight of animal tissue or other substance including its contained water. (See also “Dry weight”)

WSP is used as an acronym for “Water-Supply Paper” in reference to previously published reports.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and often are large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers. (See also “Plankton”)

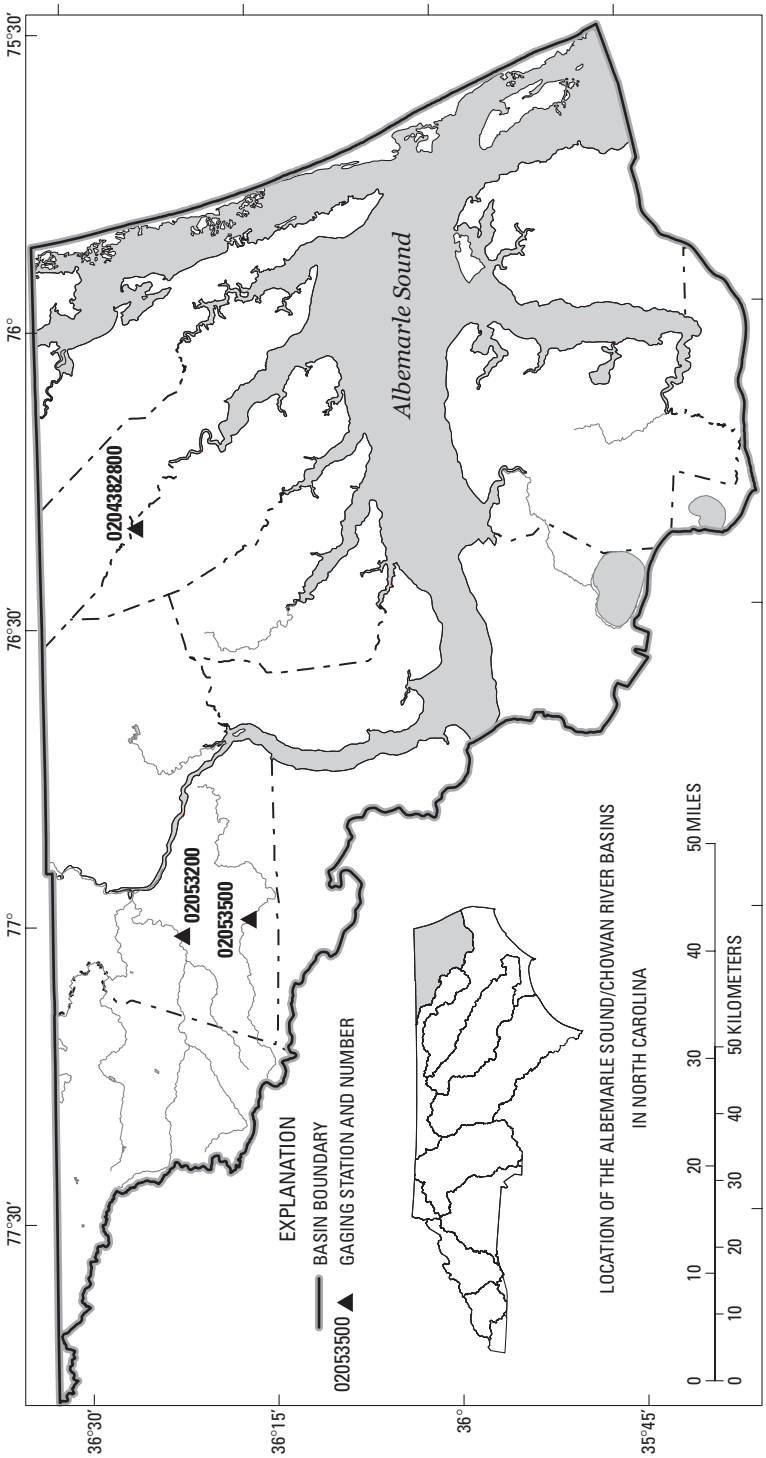


Figure 2. Locations of surface-water stations in the Albemarle Sound/Chowan River Basins, North Carolina.

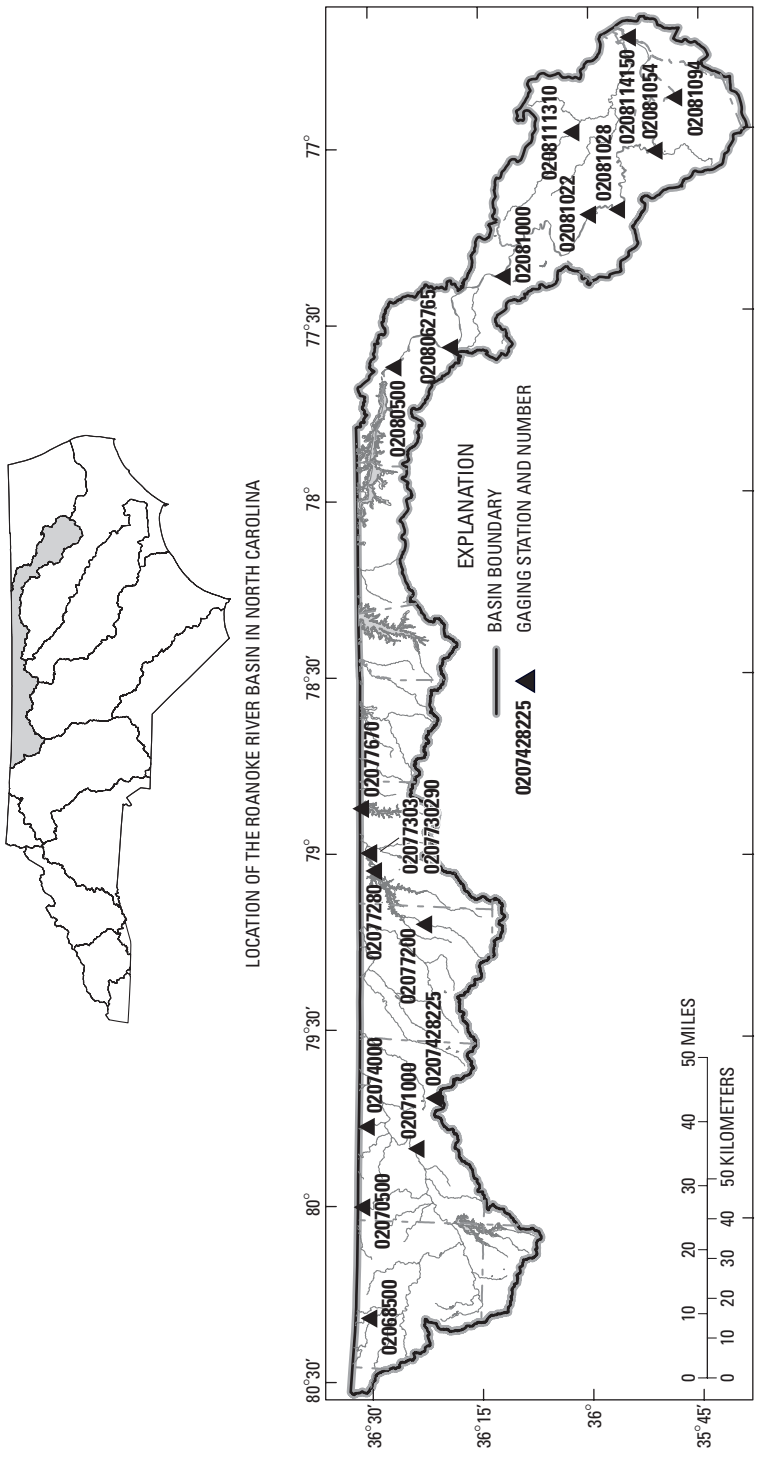


Figure 3. Locations of surface-water stations in the Roanoke River Basin, North Carolina.

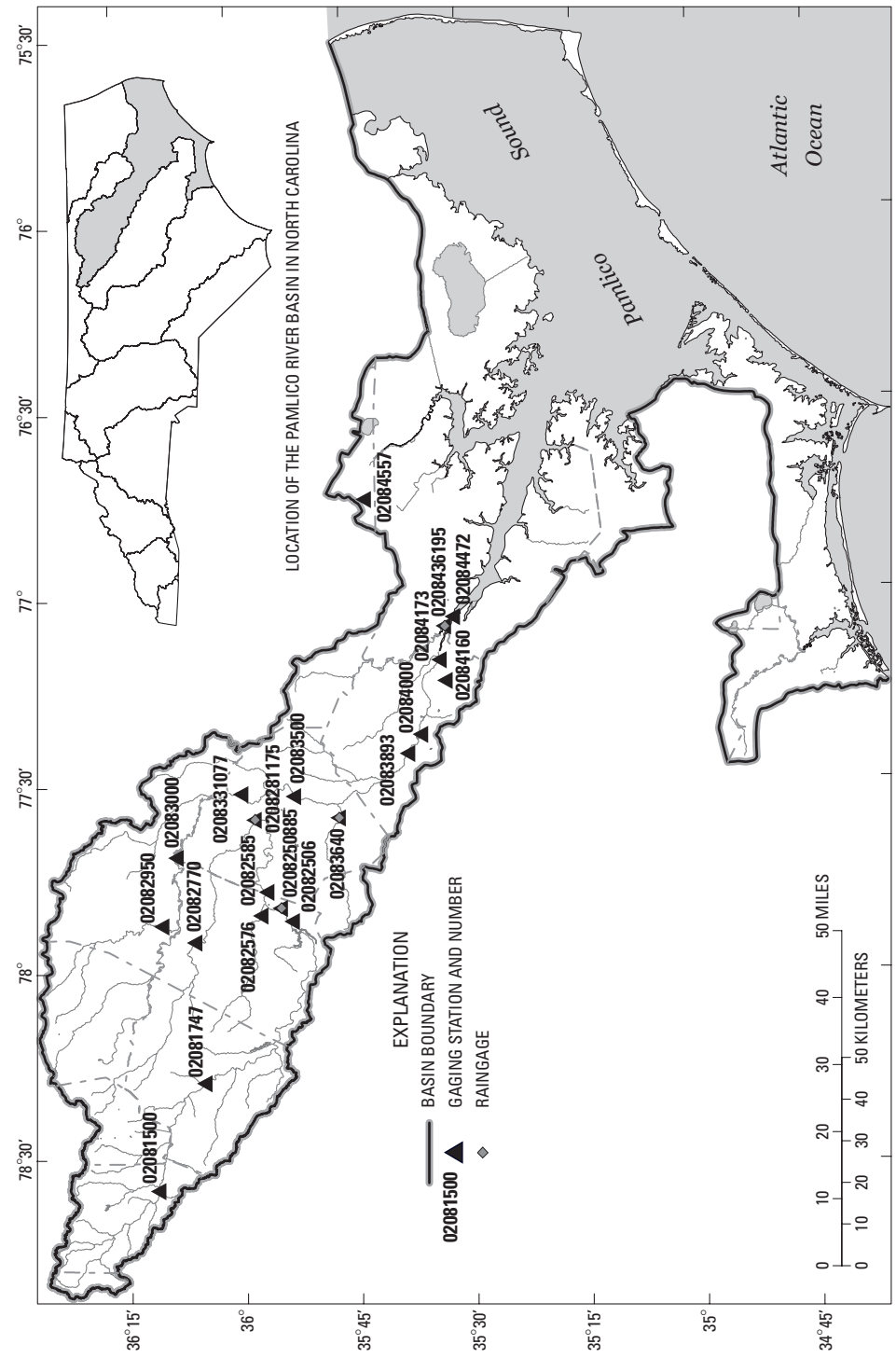


Figure 4. Locations of surface-water stations in the Pamlico River Basin, North Carolina.

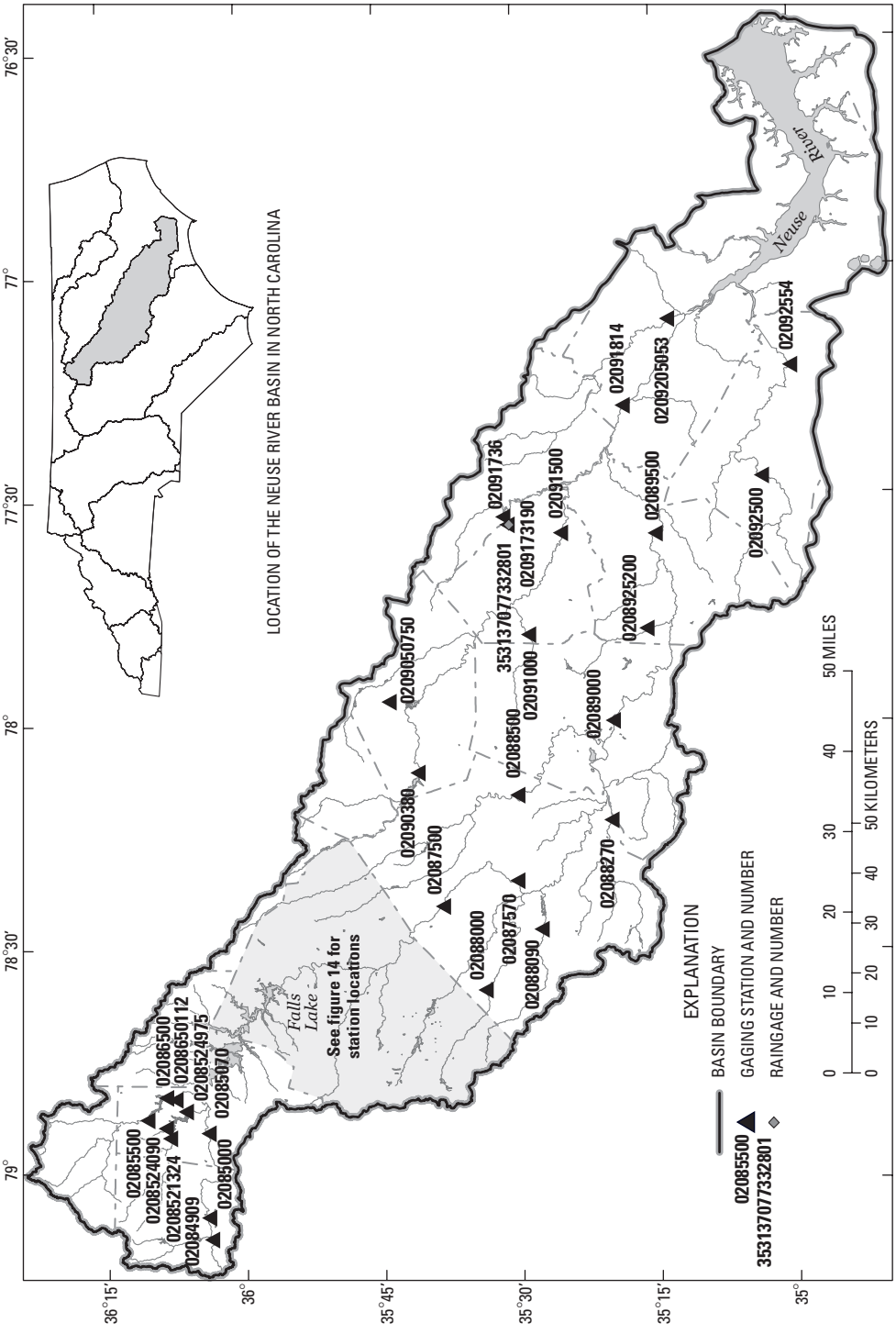


Figure 5. Locations of surface-water stations in the Neuse River Basin, North Carolina.

Figure 6. Locations of surface-water stations in the Cape Fear and New River Basins, North Carolina.

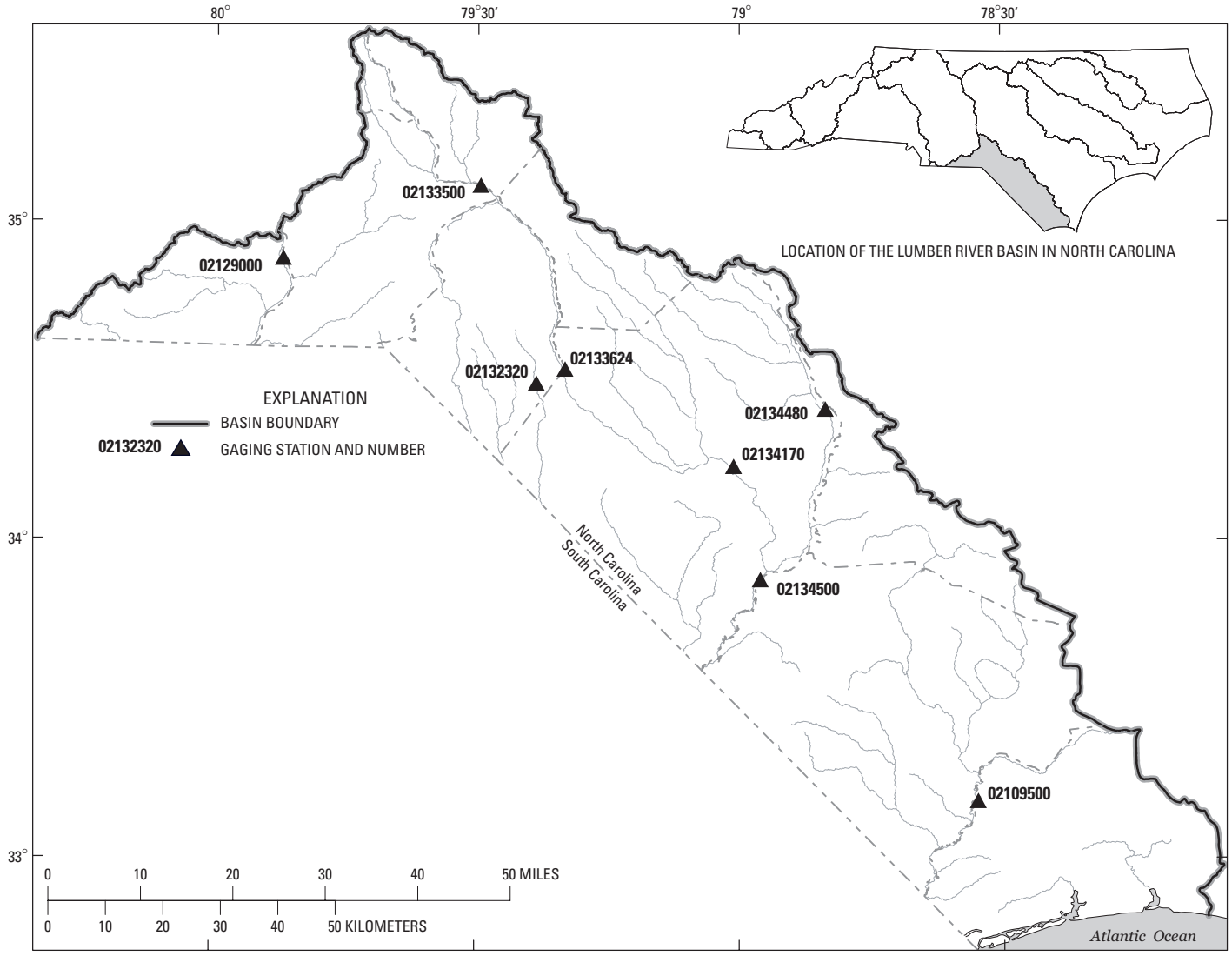
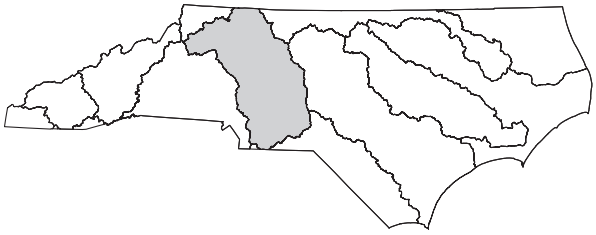


Figure 7. Locations of surface-water stations in the Lumber River Basin, North Carolina.



LOCATION OF THE PEEDEE/YADKIN RIVER BASIN IN NORTH CAROLINA

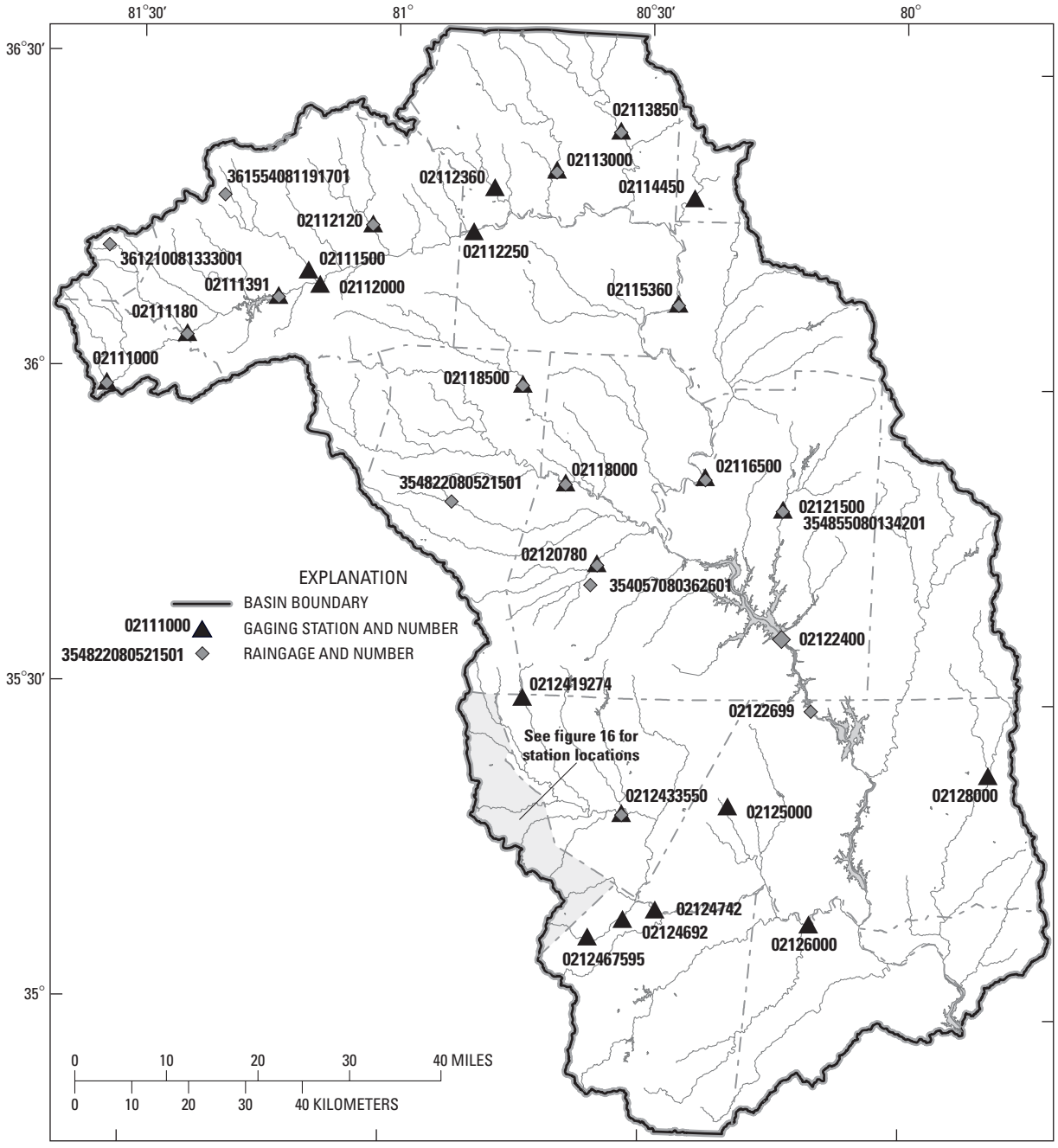


Figure 8. Locations of surface-water stations in the PeeDee/Yadkin River Basin, North Carolina.

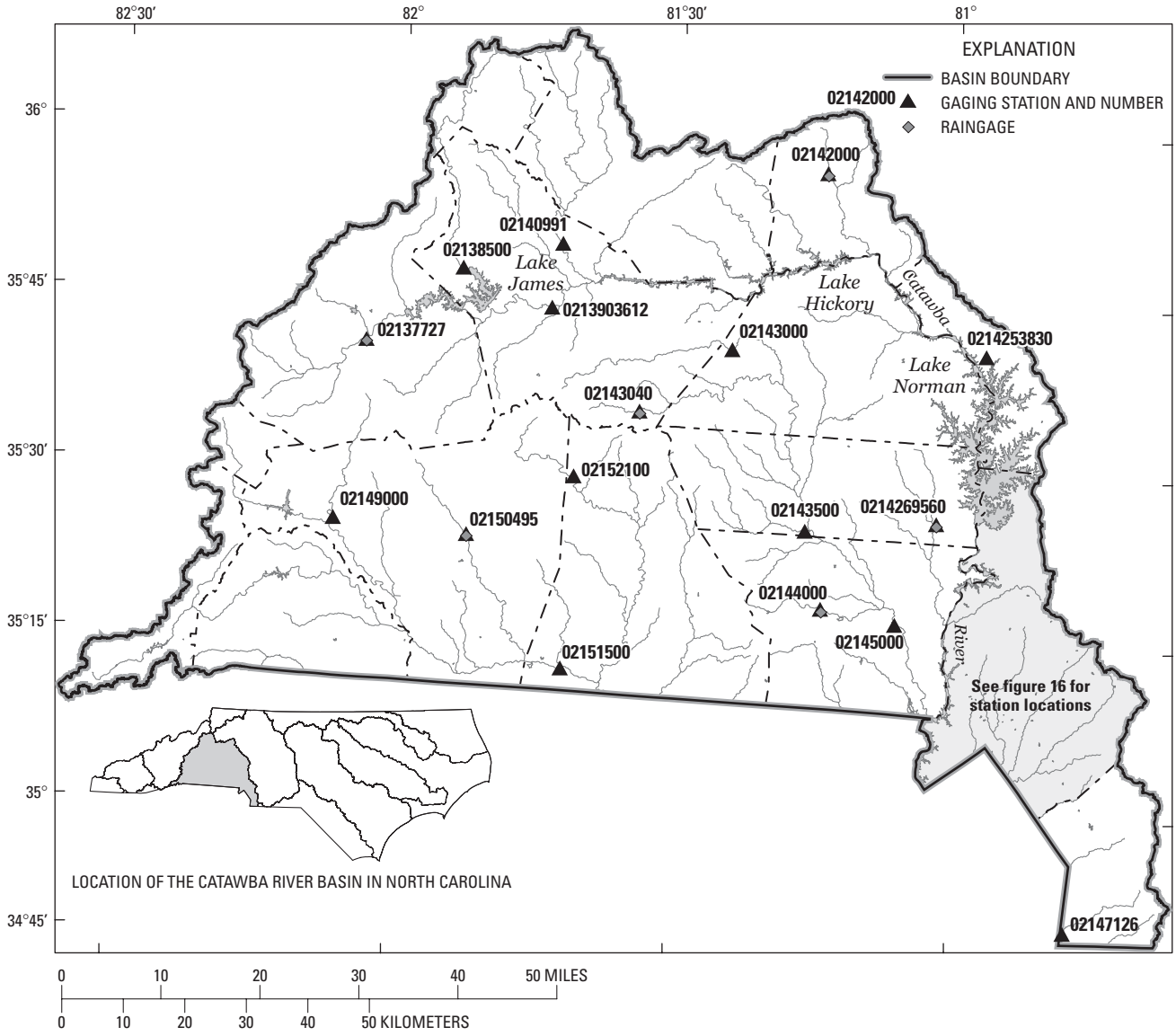


Figure 9. Locations of surface-water stations in the Catawba River Basin, North Carolina.

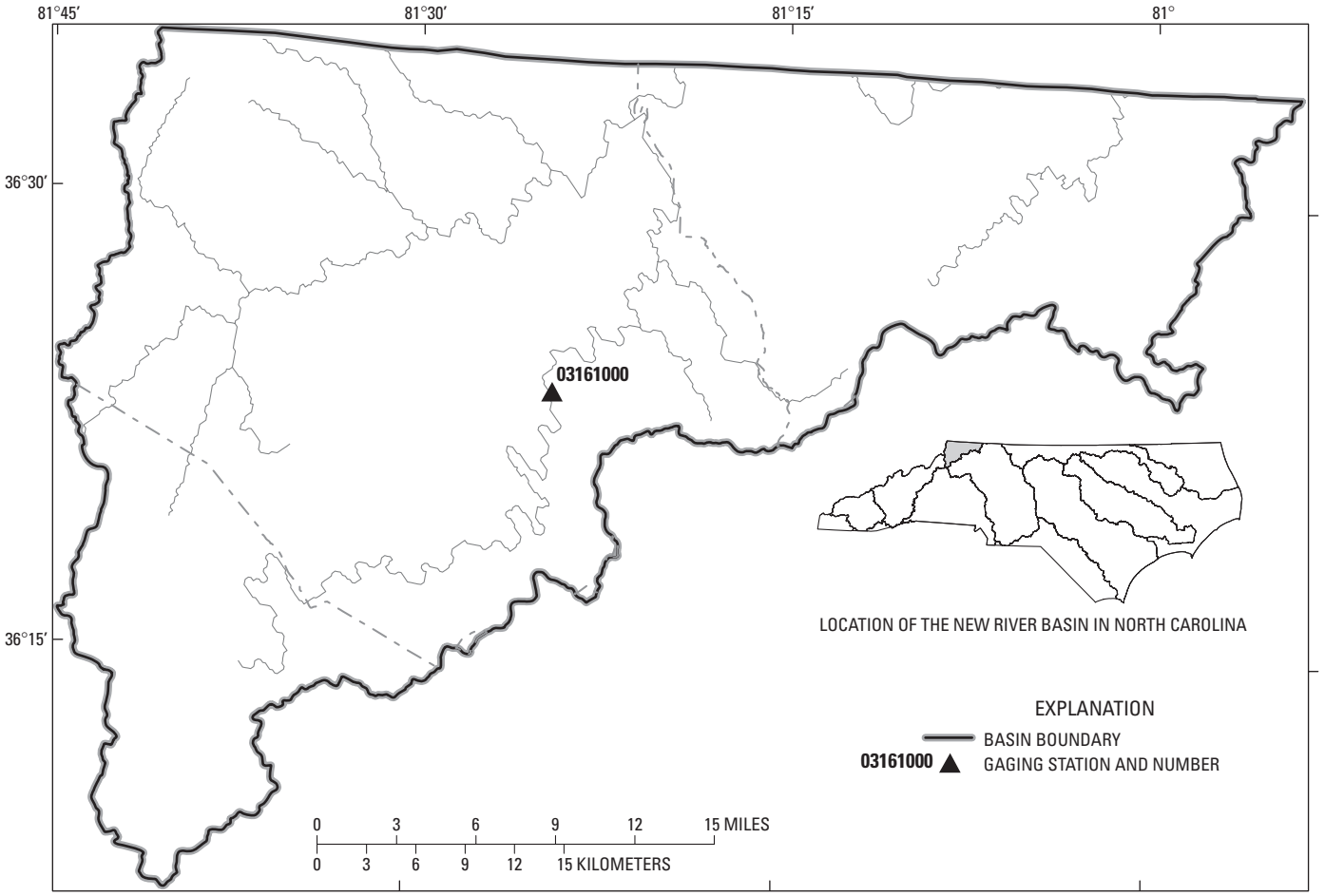


Figure 10. Location of surface-water station in the New River Basin, North Carolina.

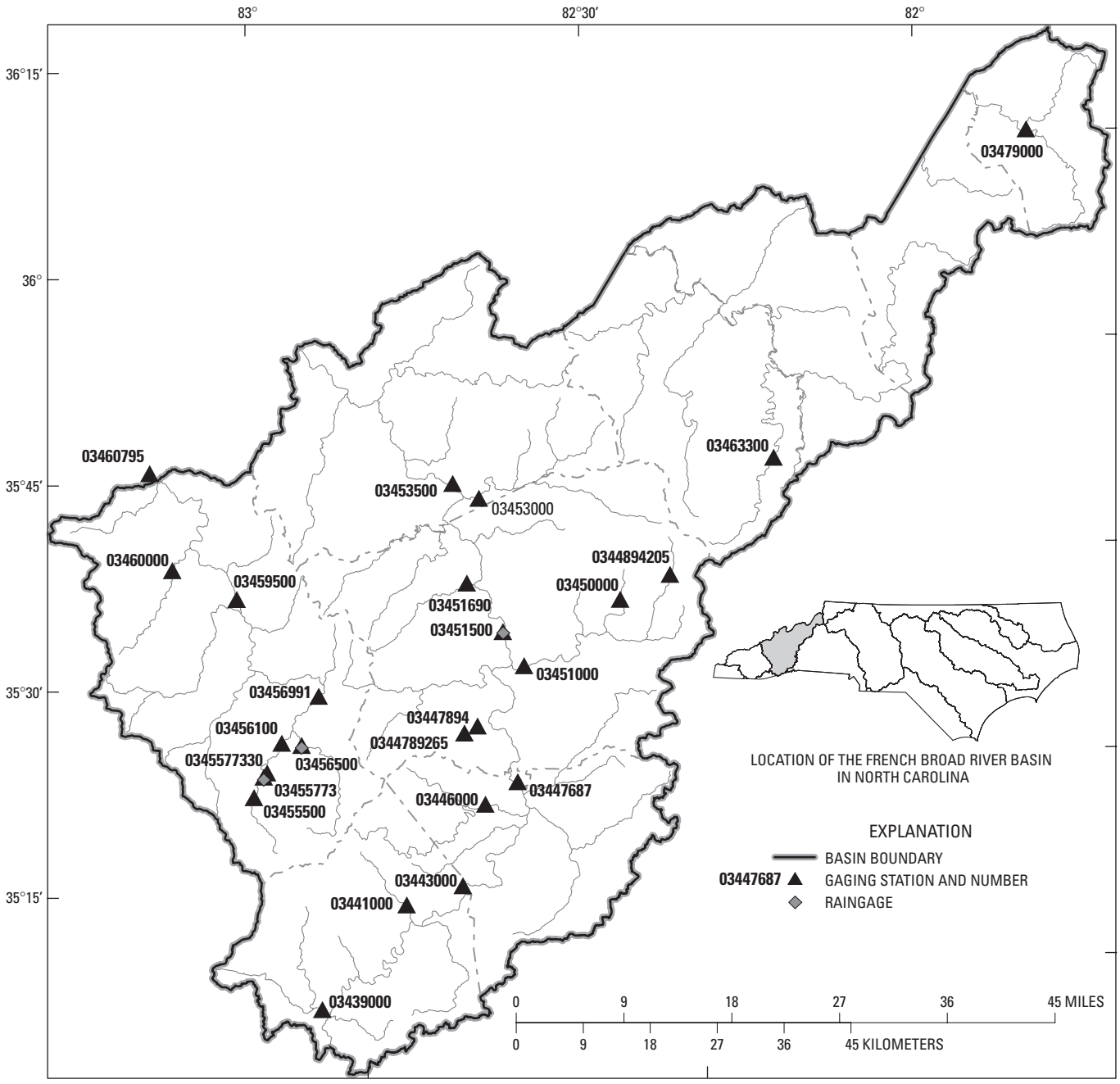


Figure 11. Locations of surface-water stations in the French Broad River Basin, North Carolina.

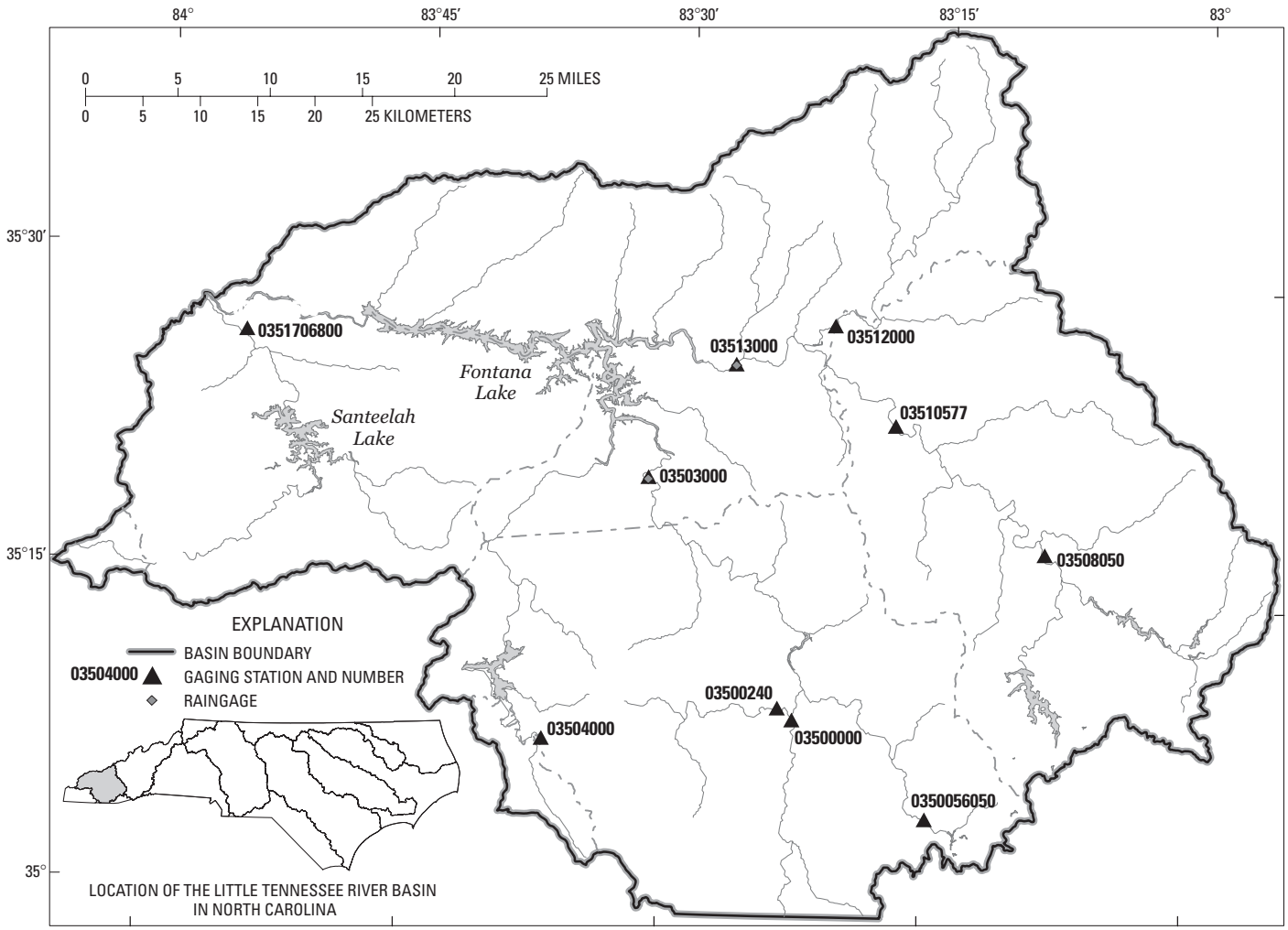


Figure 12. Locations of surface-water stations in the Little Tennessee River Basin, North Carolina.

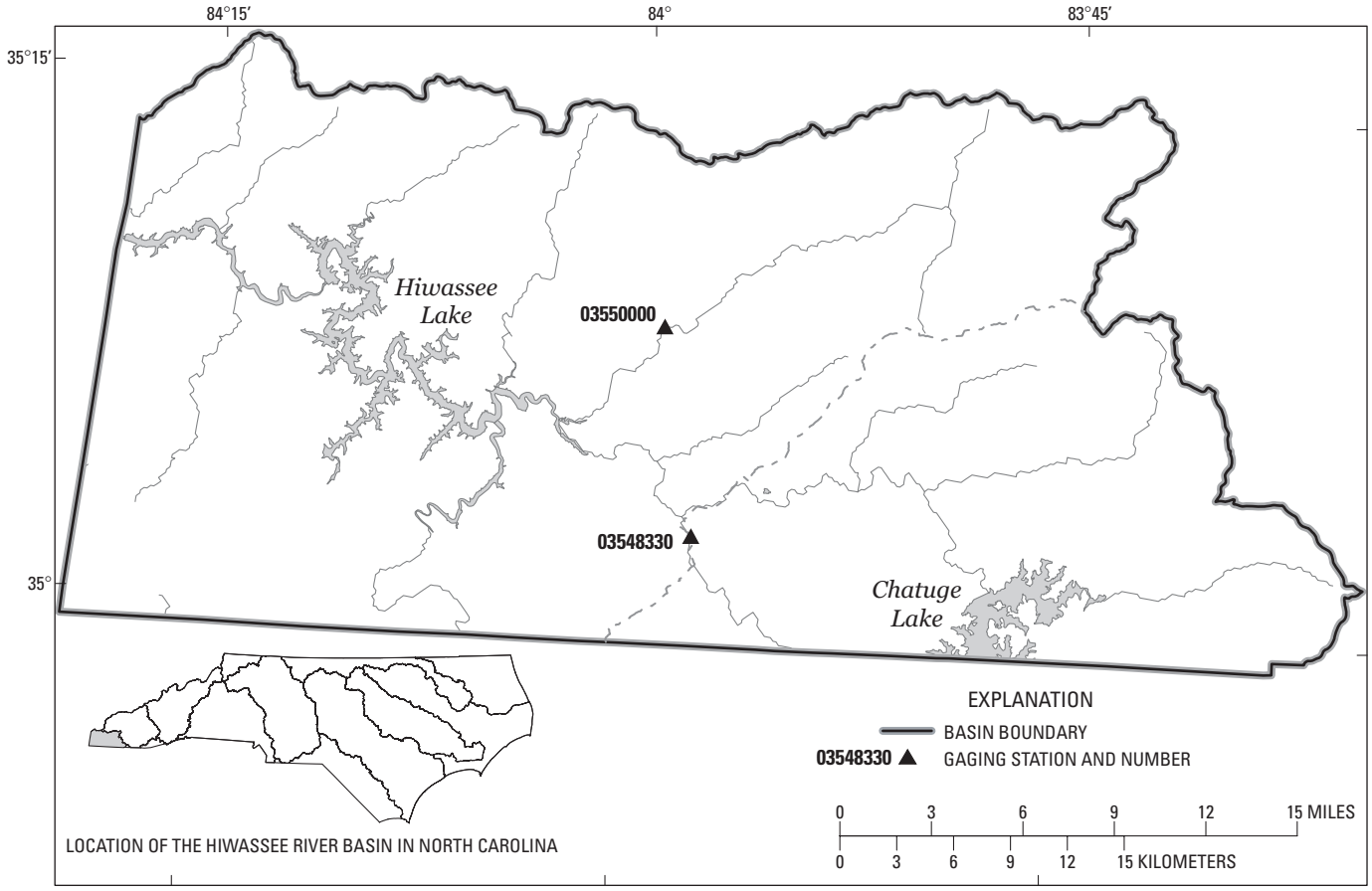


Figure 13. Locations of surface-water stations in the Hiwassee River Basin, North Carolina.

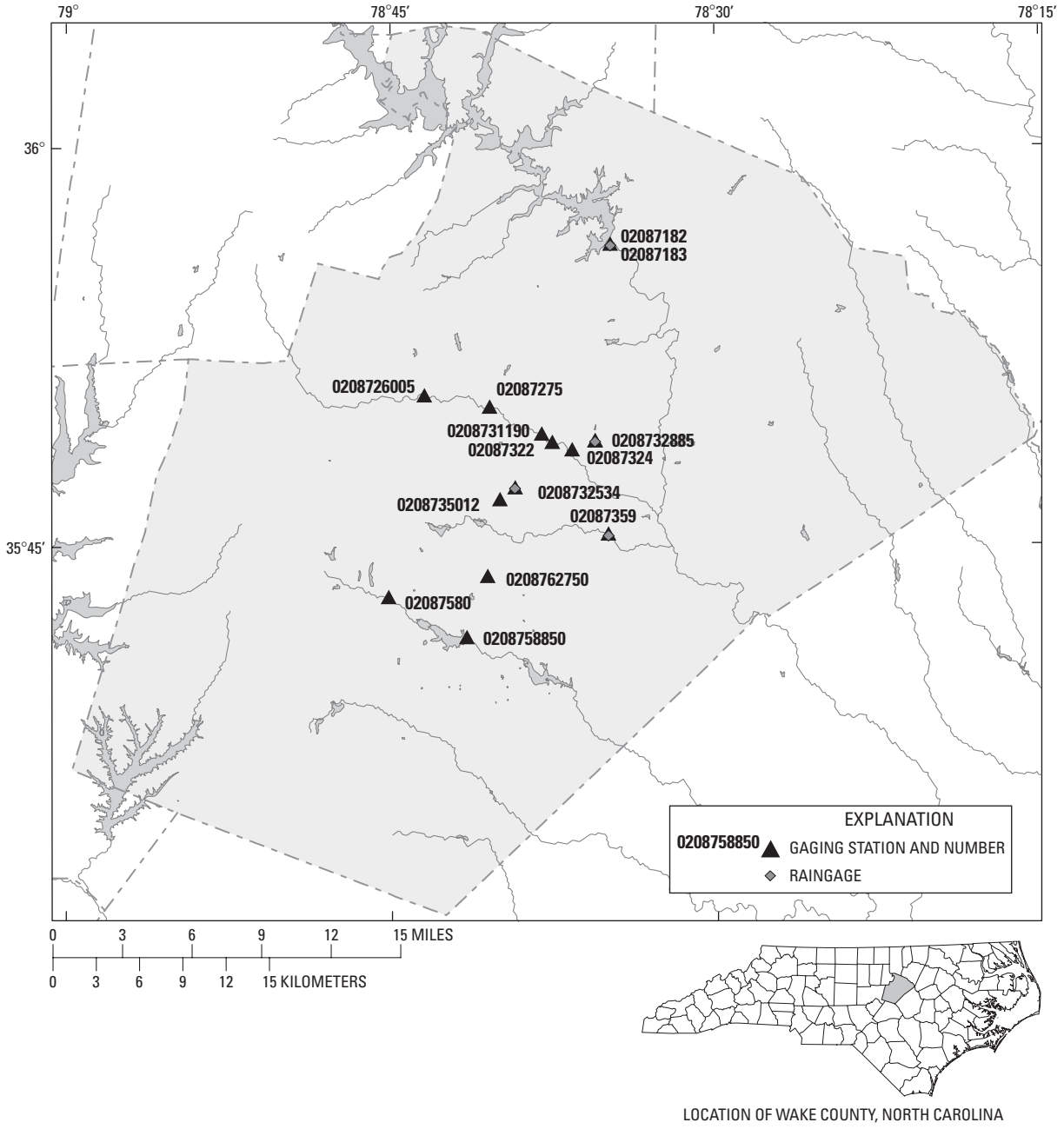


Figure 14. Locations of surface-water stations in Wake County, North Carolina, in the Neuse River Basin.

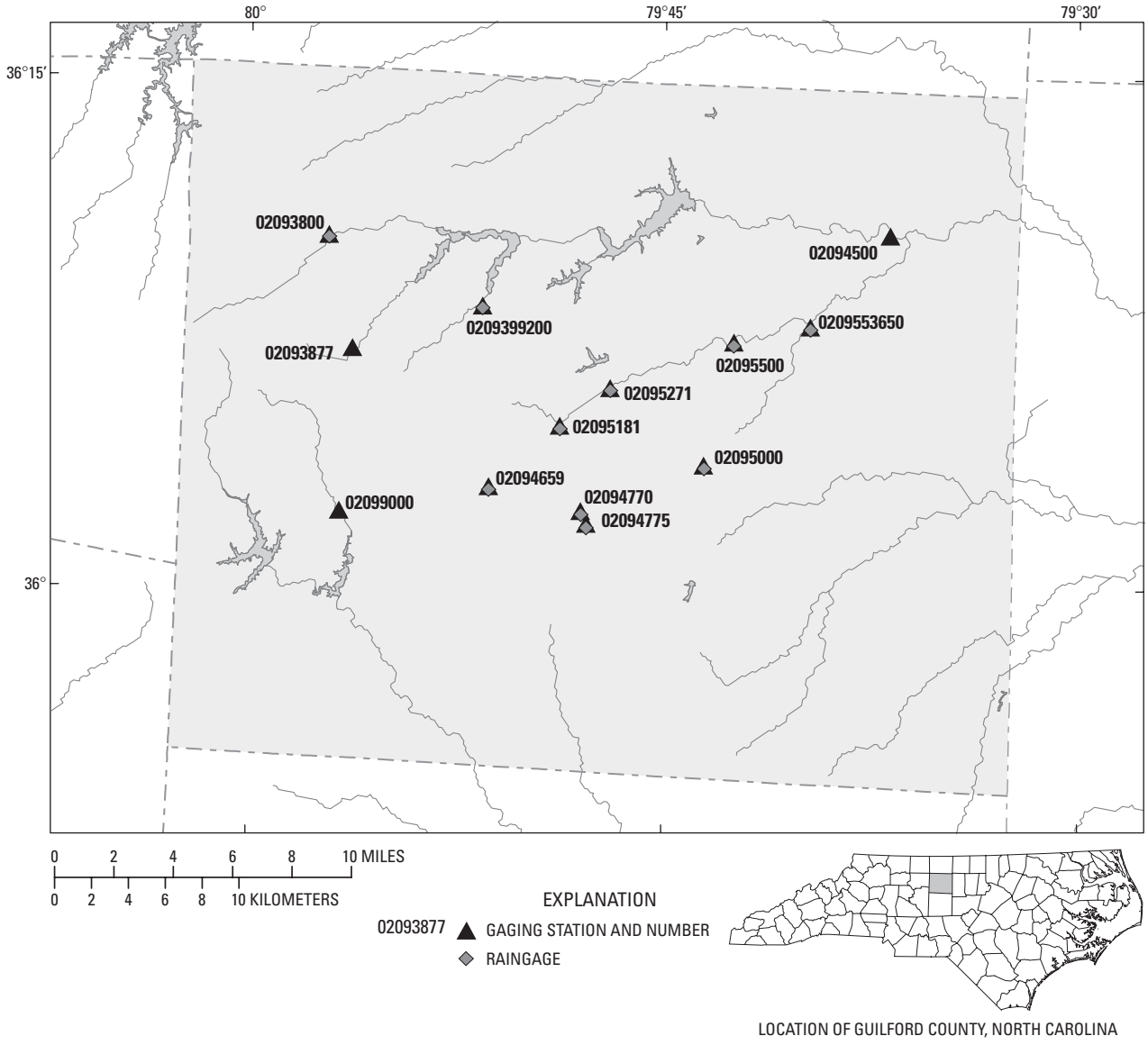


Figure 15. Locations of surface-water stations in Guilford County, North Carolina, in the Cape Fear River Basin.

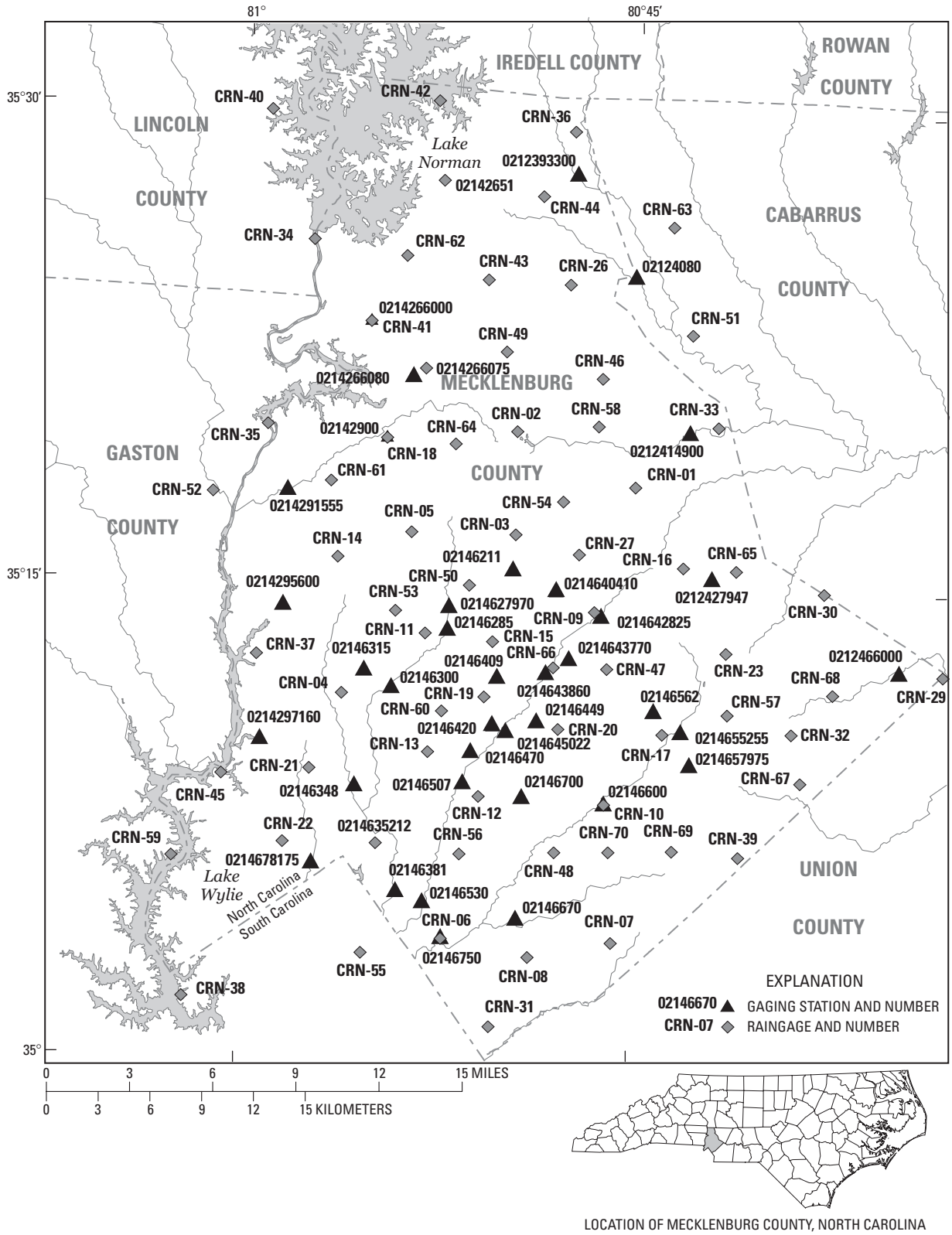
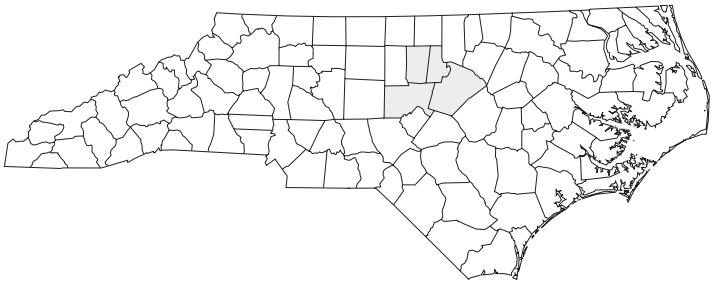


Figure 16. Locations of surface-water stations in and near Mecklenburg County, North Carolina, in the Pee Dee/Yadkin River Basin.



LOCATION OF CHATHAM, DURHAM, ORANGE, AND WAKE COUNTIES, NORTH CAROLINA

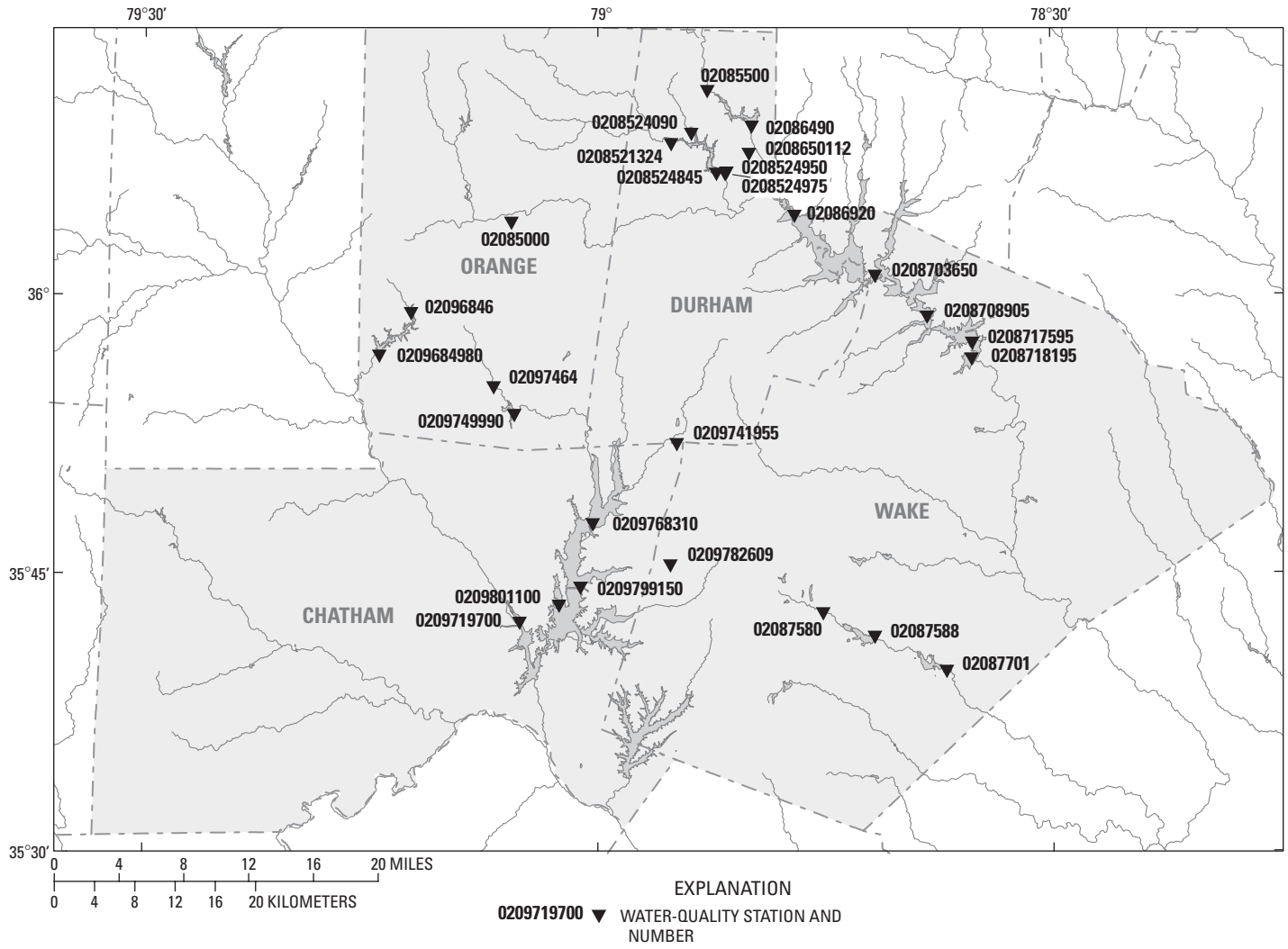


Figure 17. Locations of water-quality stations in Chatham, Durham, Orange, and Wake Counties, North Carolina.

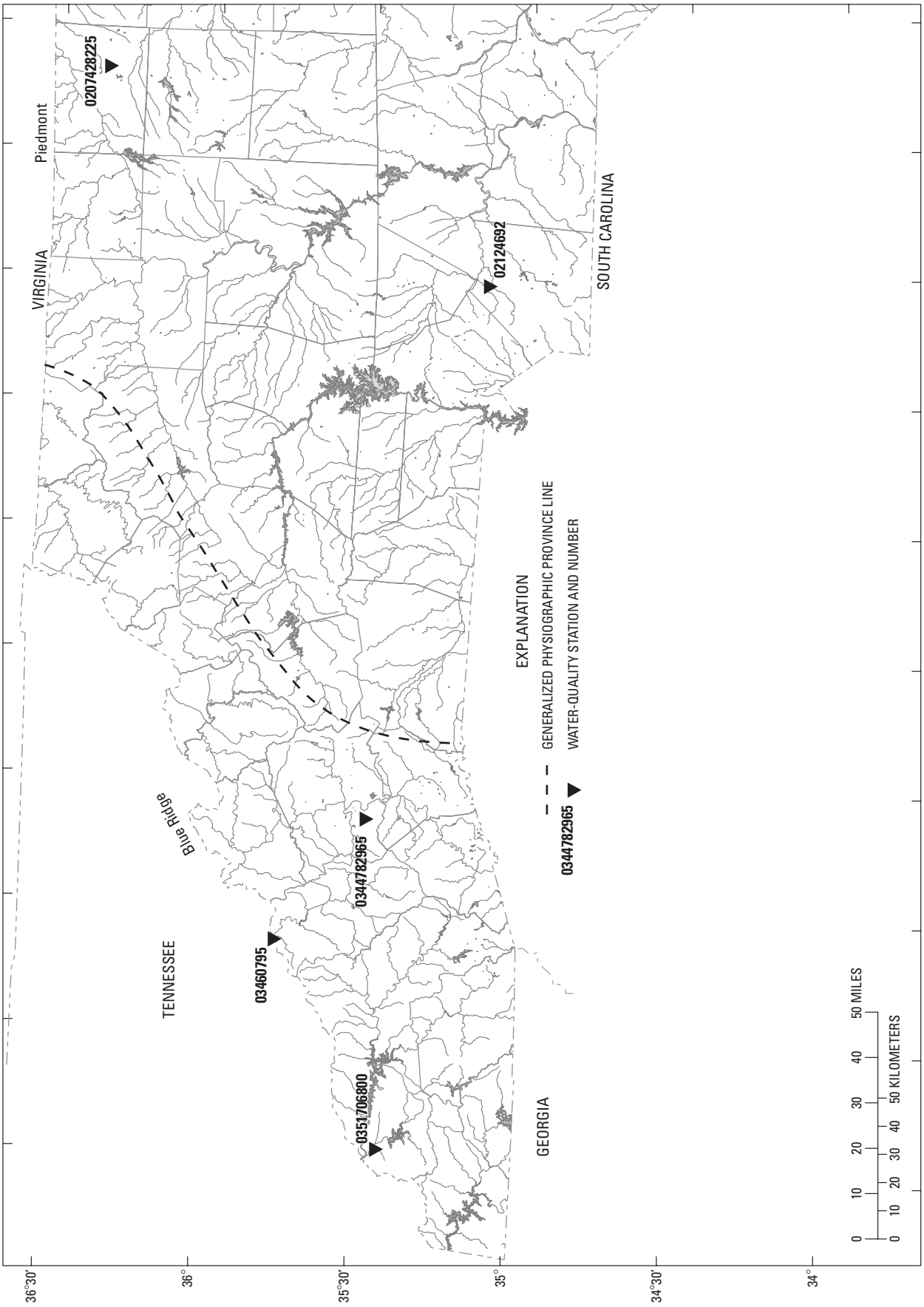


Figure 18. Locations of water-quality stations in western North Carolina.

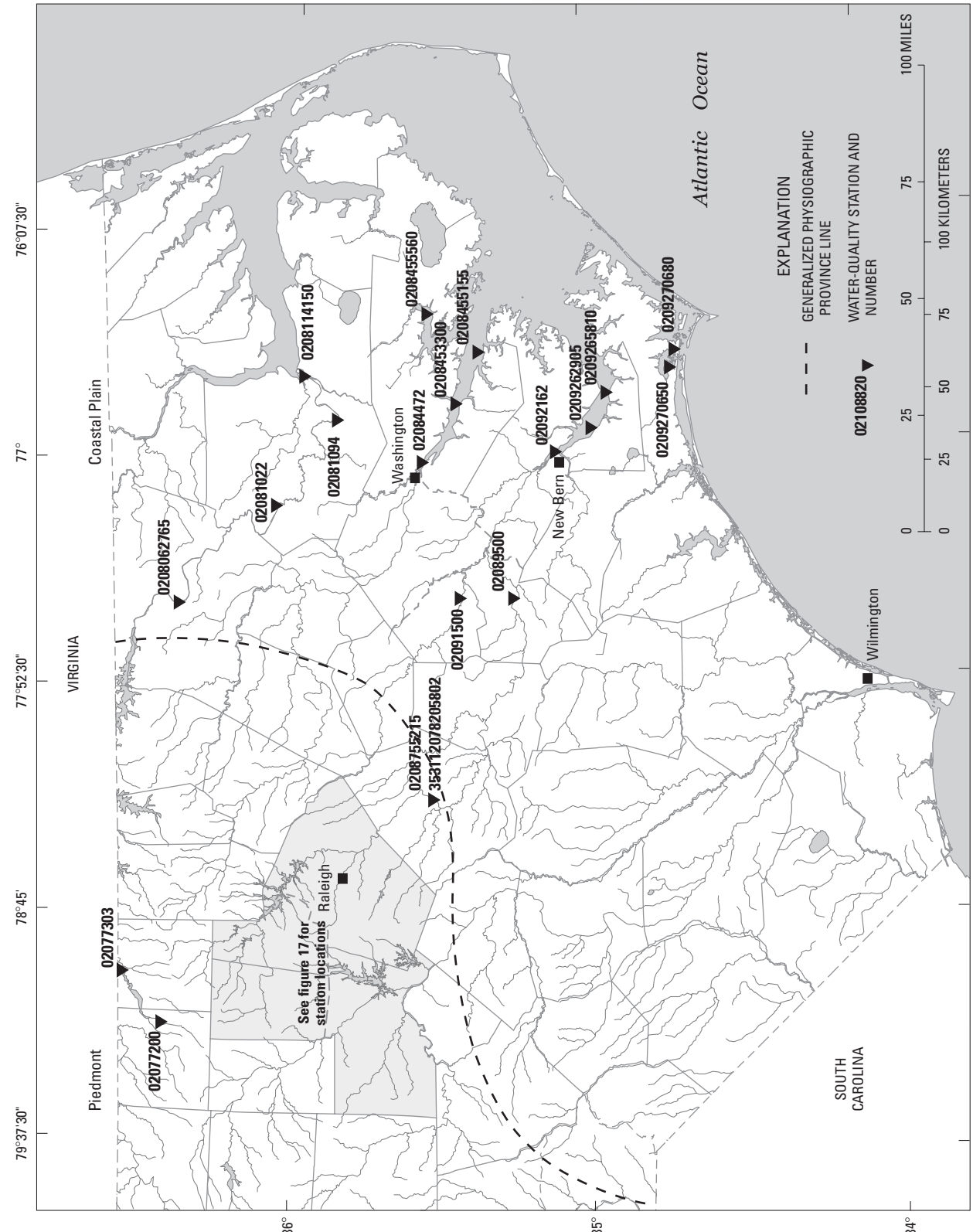


Figure 19. Locations of water-quality stations in eastern North Carolina.

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC

LOCATION.--Lat 36°25'17", long 76°20'33", Camden County, Hydrologic Unit 03010205, at bridge on US Highway 17, 1 mi below Newland Canal and 2 mi southwest of South Mills.

DRAINAGE AREA.--Approximately 64.0 mi^2.

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 4.52 ft below NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for daily discharges below 50 ft^3/s, which are poor. This site is strongly affected by astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,330 ft^3/s, Sept. 19, 1999, maximum gage height, 9.85 ft, Sept. 6, 1996; minimum discharge, -240 ft^3/s, Sept. 6, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 301 ft^3/s, March 1, maximum gage height 7.21 ft, Apr. 3; minimum discharge, -57 ft^3/s, Aug. 13.

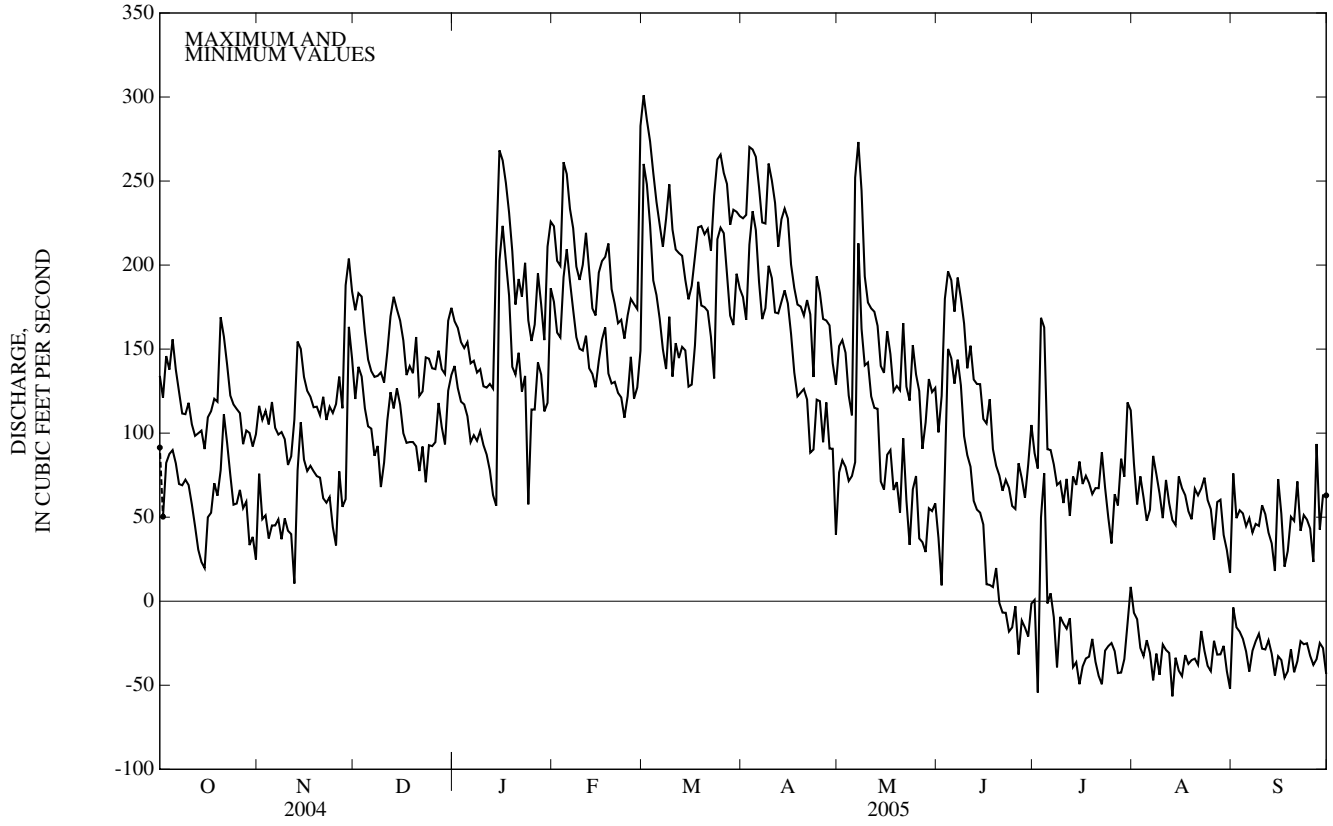
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	134	91	116	76	173	120	167	140	223	178	301	260
2	121	50	108	49	183	139	163	127	203	160	286	248
3	146	82	113	51	181	134	154	119	200	157	274	224
4	138	88	105	37	160	115	151	117	261	193	255	191
5	156	90	119	45	144	104	154	110	254	209	238	182
6	138	82	103	45	137	103	142	95	233	190	224	168
7	125	70	99	49	133	87	143	99	222	173	211	150
8	112	69	101	37	134	92	136	95	199	157	228	138
9	111	72	96	49	136	68	138	101	191	150	248	169
10	118	69	81	42	130	82	128	93	200	149	221	134
11	105	58	86	40	148	108	127	87	219	158	209	154
12	98	45	108	11	170	124	129	78	197	139	207	145
13	100	31	155	78	181	115	126	63	174	135	206	151
14	102	23	150	106	174	127	210	57	170	127	191	149
15	91	20	133	84	167	117	268	202	196	143	180	128
16	109	50	125	77	155	100	262	223	202	156	188	129
17	113	53	122	81	135	94	249	202	205	163	205	152
18	120	70	115	77	140	95	231	182	213	135	222	190
19	119	63	116	74	136	95	208	139	186	130	223	176
20	169	78	111	74	157	92	177	135	177	131	218	175
21	157	111	122	61	122	77	192	148	165	124	222	173
22	141	94	108	59	125	92	181	125	167	121	209	157
23	122	75	116	62	145	71	201	134	156	109	241	133
24	117	57	112	44	144	93	167	58	170	122	263	215
25	114	58	117	33	139	92	155	114	180	145	266	222
26	112	66	134	77	138	95	165	114	177	121	255	219
27	93	55	115	56	149	118	195	142	174	127	248	195
28	102	59	188	61	138	104	177	135	283	149	224	170
29	100	33	204	163	135	93	155	113	---	---	233	164
30	92	38	184	144	167	125	211	118	---	---	232	195
31	99	25	---	---	175	135	226	186	---	---	229	186
MONTH	169	20	204	11	183	68	268	57	283	109	301	128

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	228	181	152	77	100	38	88	0.77	82	-6.9	76	-3.7
2	230	167	155	84	122	9.4	79	-54	58	-11	49	-16
3	270	212	148	80	180	77	169	50	74	-28	54	-18
4	269	232	122	72	196	150	163	76	62	-33	52	-22
5	264	221	111	74	191	145	90	-1.3	48	-23	45	-30
6	246	190	252	83	172	129	90	4.7	54	-31	49	-42
7	225	168	273	213	193	144	81	-9.6	86	-47	41	-29
8	225	174	244	162	180	128	69	-39	76	-31	46	-24
9	260	200	193	140	165	98	71	-9.3	64	-44	45	-19
10	250	192	178	142	139	87	58	-13	49	-26	57	-28
11	237	172	174	122	152	80	73	-16	72	-29	52	-29
12	211	171	172	115	132	60	51	-10	58	-31	41	-23
13	227	178	164	114	129	55	74	-39	48	-57	34	-31
14	234	185	140	71	129	53	69	-36	45	-34	18	-44
15	228	177	136	66	108	46	83	-49	74	-41	73	-33
16	200	159	161	87	106	10	70	-39	67	-45	52	-35
17	186	136	147	90	120	9.7	75	-34	63	-32	21	-46
18	177	122	125	66	90	8.4	70	-33	54	-37	30	-42
19	175	124	128	71	81	20	64	-22	49	-35	50	-29
20	170	126	125	53	75	-1.0	67	-36	67	-34	48	-42
21	179	120	166	97	66	-6.8	67	-44	63	-38	71	-36
22	171	88	128	60	72	-6.9	89	-49	67	-18	42	-24
23	133	90	119	34	67	-18	67	-29	73	-29	51	-26
24	193	120	152	67	57	-16	50	-27	60	-38	49	-25
25	183	119	135	74	55	-3.0	34	-25	55	-42	43	-33
26	168	95	125	37	82	-32	64	-30	37	-24	23	-38
27	167	118	91	35	73	-12	57	-43	59	-32	94	-34
28	164	91	106	29	62	-16	85	-42	60	-32	43	-25
29	142	91	132	55	81	-21	74	-34	39	-27	63	-28
30	129	40	124	54	105	-1.4	118	-13	30	-42	63	-43
31	---	---	127	58	---	---	114	8.5	17	-52	---	---
MONTH	270	40	273	29	196	-32	169	-54	86	-57	94	-46



02053200 POTECASI CREEK NEAR UNION, NC

LOCATION.--Lat 36°22'15", long 77°01'32", Hertford County, Hydrologic Unit 03010204, on right bank at downstream side of bridge on State Highway 11, 2.8 mi north of Union, 3 mi downstream of Cutawhiskie Swamp, and 3.5 mi upstream from Bells Branch.

DRAINAGE AREA.--225 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1953-57. March 1958 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 3.53 ft above NGVD of 1929. Prior to Dec. 1, 1958, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 5,800 ft^3/s on basis of discharge-conveyance ratios of peak flow; maximum gage height from outside floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1929 reached a stage of 19.1 ft; discharge, 4,050 ft^3/s; and flood of August 1940 reached a stage of 24.1 ft; discharge, 7,000 ft^3/s, from rating curve extended above 4,000 ft^3/s, from information furnished by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	54	89	168	317	369	475	487	47	32	14	17	0.90
2	49	76	156	314	354	580	509	45	40	11	12	0.78
3	46	68	145	313	370	590	628	42	51	9.0	8.9	0.73
4	44	68	135	304	427	596	604	37	57	7.7	6.7	0.78
5	44	82	125	282	489	556	508	33	57	6.9	5.3	0.92
6	48	105	119	253	462	481	425	60	53	6.8	4.5	1.1
7	43	106	116	222	424	392	349	230	50	6.9	3.9	1.1
8	37	100	114	193	391	325	304	365	53	12	3.7	1.2
9	35	105	113	170	355	375	349	322	55	11	3.7	1.2
10	37	114	159	147	317	398	391	367	59	7.8	12	1.2
11	46	116	370	125	275	344	340	390	55	6.7	14	1.1
12	49	119	447	115	234	354	283	337	51	6.4	8.0	0.98
13	48	160	426	108	198	405	263	247	45	6.2	6.4	1.1
14	52	268	444	152	172	407	319	158	34	6.0	7.0	1.3
15	63	277	441	531	159	362	368	104	26	6.5	5.2	1.4
16	67	279	395	786	e168	308	341	94	20	6.4	4.4	1.5
17	72	339	335	861	e157	379	323	78	16	6.4	24	1.4
18	90	368	279	919	e145	653	291	62	13	7.6	23	1.8
19	115	359	233	877	120	745	250	54	11	12	11	1.6
20	146	327	197	751	114	750	210	57	10	25	9.7	1.5
21	183	282	163	610	109	760	173	59	8.7	13	7.7	1.9
22	208	235	140	479	104	705	139	59	8.2	9.2	39	1.8
23	232	201	125	386	100	637	115	56	7.8	9.4	45	1.7
24	383	195	122	326	100	782	105	53	7.4	7.2	19	1.7
25	474	216	121	289	135	869	89	55	7.3	6.5	12	1.7
26	453	202	123	265	175	823	75	55	7.3	5.8	6.9	1.7
27	375	179	135	245	157	763	66	50	7.6	5.1	4.6	1.9
28	282	175	139	221	210	677	58	47	11	4.6	2.2	1.7
29	201	174	141	184	---	604	52	45	20	6.7	1.5	1.5
30	139	176	169	207	---	538	50	44	18	10	1.7	1.6
31	106	---	264	325	---	492	---	39	---	11	1.1	---
TOTAL	4,221	5,560	6,559	11,277	6,790	17,125	8,464	3,691	891.3	270.8	331.1	40.79
MEAN	136	185	212	364	242	552	282	119	29.7	8.74	10.7	1.36
MAX	474	368	447	919	489	869	628	390	59	25	45	1.9
MIN	35	68	113	108	100	308	50	33	7.3	4.6	1.1	0.73
CFSM	0.61	0.82	0.94	1.62	1.08	2.46	1.25	0.53	0.13	0.04	0.05	0.01
IN.	0.70	0.92	1.08	1.86	1.12	2.83	1.40	0.61	0.15	0.04	0.05	0.01

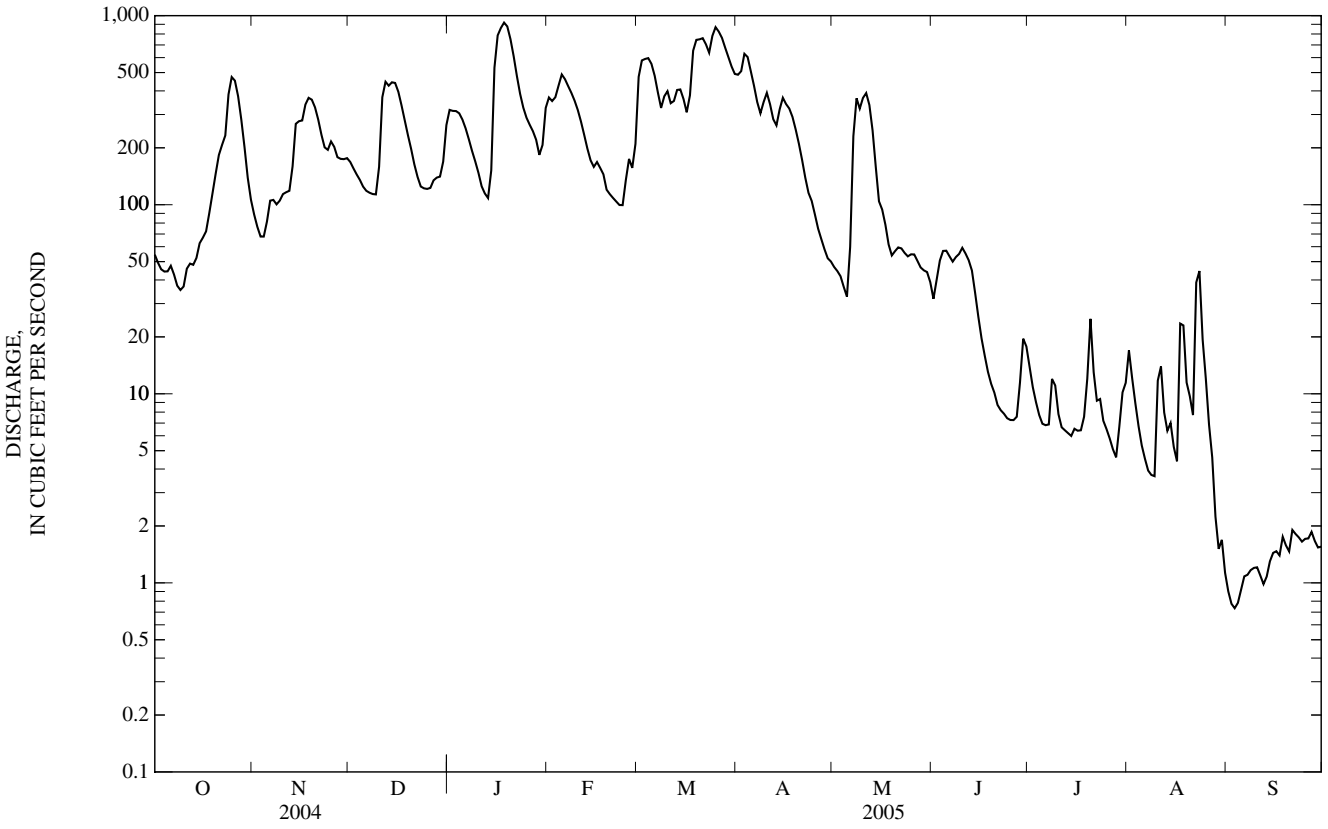
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	126	104	210	391	482	453	305	146	120	103	167	149
MAX	1,108	619	675	957	1,135	1,439	994	925	700	531	1,131	2,515
(WY)	(1960)	(1986)	(2004)	(1987)	(1960)	(1989)	(1983)	(1979)	(1979)	(1975)	(1992)	(1999)
MIN	2.12	4.71	11.3	51.3	54.9	46.7	27.7	5.36	3.98	2.32	2.50	1.36
(WY)	(1995)	(2002)	(2002)	(1981)	(1991)	(1988)	(1995)	(1994)	(2002)	(1983)	(1987)	(2005)

02053200 POTECASI CREEK NEAR UNION, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL TOTAL	87,009.1		65,220.99			
ANNUAL MEAN	238		179		228	
HIGHEST ANNUAL MEAN					458	1979
LOWEST ANNUAL MEAN					56.1	2002
HIGHEST DAILY MEAN	3,600	Aug 18	919	Jan 18	15,200	Sep 17, 1999
LOWEST DAILY MEAN	6.8	Jun 23	0.73	Sep 3	0.30	Jun 30, 1959
ANNUAL SEVEN-DAY MINIMUM	8.8	Jun 18	0.90	Aug 31	0.51	Jun 25, 1959
MAXIMUM PEAK FLOW			927	Jan 18	17,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			10.86	Jan 18	28.90*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			0.66	Sep 3	0.20	Jul 1, 1959
ANNUAL RUNOFF (CFSM)	1.06		0.794		1.01	
ANNUAL RUNOFF (INCHES)	14.39		10.78		13.79	
10 PERCENT EXCEEDS	417		457		634	
50 PERCENT EXCEEDS	152		106		77	
90 PERCENT EXCEEDS	22		3.8		5.3	

* See REMARKS.
e Estimated.



02053500 AHOSKIE CREEK AT AHOSKIE, NC

LOCATION.--Lat 36°16'49", long 76°59'58", Hertford County, Hydrologic Unit 03010203, on right bank 10 ft downstream of bridge on State Highways 11 and 42, 0.5 mi upstream from Seaboard Coast Line Railroad bridge, and 0.8 mi southwest of Ahoskie.

DRAINAGE AREA.--63.3 mi^2.

PERIOD OF RECORD.--January 1950 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 17.46 ft above NGVD of 1929 (Soil Conservation Service bench mark). Prior to Jan. 4, 1963, present site at 21.46 ft. Jan. 20, 1950, to May 24, 1951, nonrecording gage. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Entire basin above station canalized since July 1964. Minimum discharge since canalization also occurred Oct. 9, 1988. Prior to canalization, no flow occurred periodically.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1940 reached a stage of 15.1 ft, present datum, from floodmark witnessed by local resident; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	10	20	93	95	263	37	13	11	6.1	43	3.6
2	14	10	20	69	70	140	142	12	15	6.0	15	3.3
3	13	10	18	53	68	88	209	11	20	6.1	8.7	3.6
4	28	24	17	44	179	64	92	11	24	5.7	7.3	3.9
5	54	32	15	38	121	53	55	11	17	5.4	6.9	4.1
6	27	20	15	33	82	46	40	84	14	9.7	6.0	4.7
7	20	15	15	30	64	41	33	185	13	7.4	5.8	4.5
8	17	13	14	27	54	91	46	76	17	10	5.9	4.2
9	15	12	14	25	48	170	48	43	57	9.9	9.8	4.2
10	13	11	211	23	44	97	37	30	29	6.9	51	4.0
11	12	11	216	22	40	71	30	23	20	5.9	14	3.7
12	12	16	91	21	36	64	26	20	15	5.8	8.9	3.5
13	13	88	57	20	34	55	35	17	12	5.2	6.8	3.7
14	17	49	41	277	33	46	92	16	11	6.6	6.8	4.0
15	17	31	33	486	37	41	54	17	9.7	8.0	6.0	3.7
16	16	26	28	228	37	42	37	29	8.6	5.1	12	3.6
17	14	23	26	148	35	296	30	24	7.9	7.4	144	3.5
18	12	21	25	98	33	349	26	19	7.3	18	40	3.8
19	13	19	24	71	30	187	23	18	6.9	9.5	18	3.3
20	27	18	23	60	28	134	21	39	6.4	6.8	11	3.3
21	21	17	21	59	28	104	19	35	5.9	6.2	19	4.7
22	17	16	20	57	28	73	18	24	5.8	6.0	39	3.8
23	14	21	21	69	27	166	17	20	6.0	5.2	11	3.8
24	13	42	30	56	40	271	16	17	5.6	4.9	8.1	3.3
25	13	33	28	49	64	143	15	16	5.3	5.0	6.9	3.3
26	12	26	27	48	49	91	14	17	5.0	5.6	5.0	3.2
27	12	22	27	45	41	65	14	15	4.7	5.3	4.3	3.3
28	11	26	29	39	210	63	13	13	11	14	4.2	3.2
29	11	26	34	35	---	68	13	12	8.1	9.2	3.9	3.3
30	11	22	97	114	---	52	13	11	6.7	12	3.9	3.5
31	10	---	122	152	---	44	---	11	---	36	3.7	---
TOTAL	513	710	1,379	2,589	1,655	3,478	1,265	889	385.9	260.9	535.9	111.6
MEAN	16.5	23.7	44.5	83.5	59.1	112	42.2	28.7	12.9	8.42	17.3	3.72
MAX	54	88	216	486	210	349	209	185	57	36	144	4.7
MIN	10	10	14	20	27	41	13	11	4.7	4.9	3.7	3.2
CFSM	0.26	0.37	0.70	1.32	0.93	1.77	0.67	0.45	0.20	0.13	0.27	0.06
IN.	0.30	0.42	0.81	1.52	0.97	2.04	0.74	0.52	0.23	0.15	0.31	0.07

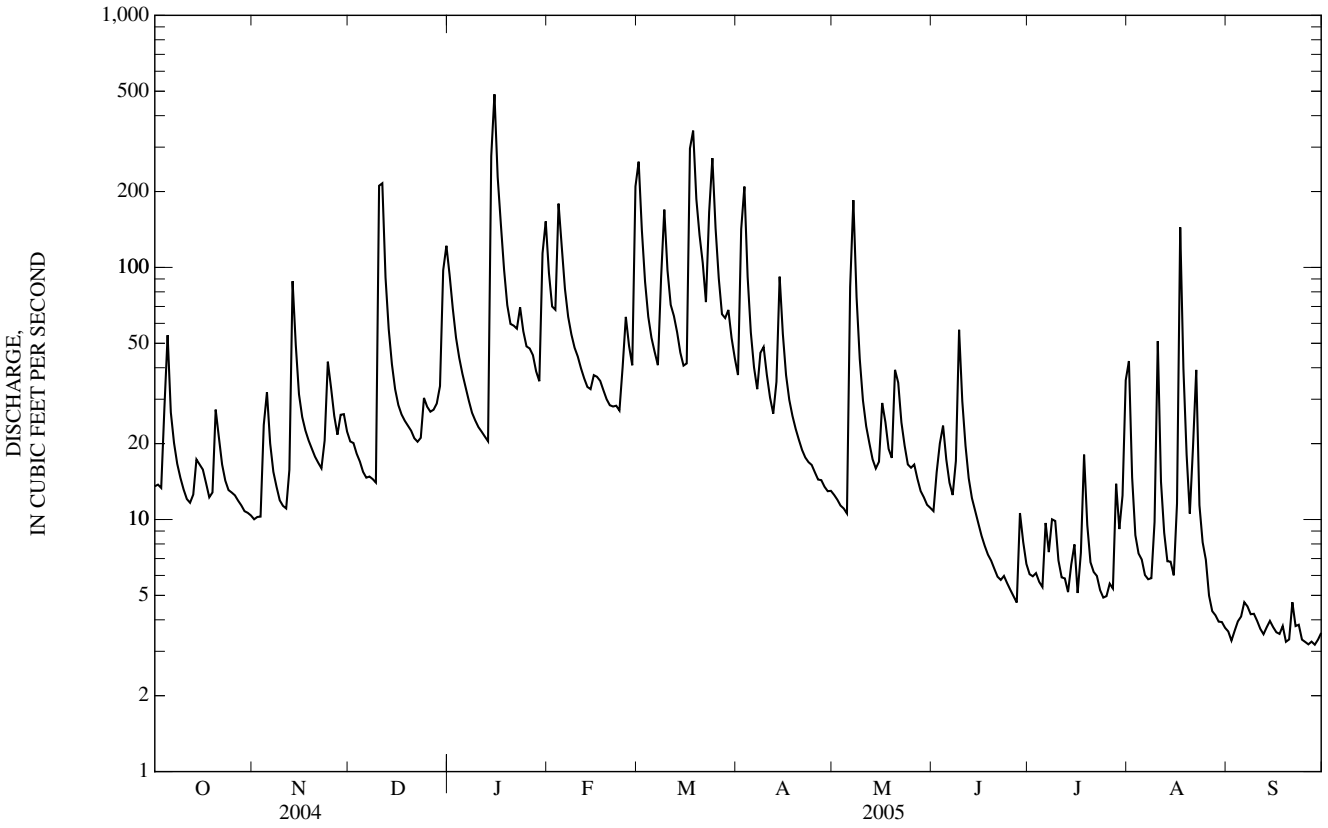
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005,* BY WATER YEAR (WY)

MEAN	39.6	23.6	48.6	97.3	121	121	73.8	42.7	42.0	30.3	48.4	49.5
MAX	297	120	177	260	343	303	243	238	322	126	381	894
(WY)	(1972)	(1986)	(1990)	(1979)	(1998)	(1989)	(1983)	(1979)	(2001)	(1975)	(1992)	(1999)
MIN	2.84	3.21	3.10	7.66	18.9	17.3	8.73	4.21	5.43	3.55	3.59	3.41
(WY)	(2002)	(1982)	(1995)	(1981)	(1968)	(1988)	(1985)	(1986)	(1986)	(1987)	(1983)	(1980)

02053500 AHOSKIE CREEK AT AHOSKIE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005*	
ANNUAL TOTAL	19,767.8		13,772.3			
ANNUAL MEAN	54.0		37.7		61.2	
HIGHEST ANNUAL MEAN					114	2003
LOWEST ANNUAL MEAN					14.7	1981
HIGHEST DAILY MEAN	1,540	Aug 16	486	Jan 15	7,710	Sep 17, 1999
LOWEST DAILY MEAN	6.6	Jun 16	3.2	Sep 26	0.61	Oct 8, 1988
ANNUAL SEVEN-DAY MINIMUM	7.7	Jun 11	3.3	Sep 24	0.85	Sep 27, 1988
MAXIMUM PEAK FLOW			645	Jan 14	8,570	Sep 17, 1999
MAXIMUM PEAK STAGE			7.96	Jan 14	17.32	Sep 17, 1999
INSTANTANEOUS LOW FLOW			2.9	Sep 28	0.45*	Oct 8, 1988
ANNUAL RUNOFF (CFSM)	0.853		0.596		0.966	
ANNUAL RUNOFF (INCHES)	11.62		8.09		13.13	
10 PERCENT EXCEEDS	89		91		131	
50 PERCENT EXCEEDS	23		19		17	
90 PERCENT EXCEEDS	10		4.8		4.2	

* Canalized period only (1954-2005). See REMARKS.



02068500 DAN RIVER NEAR FRANCISCO, NC

LOCATION.--Lat 36°30'54", long 80°18'11", Stokes County, Hydrologic Unit 03010103, on left bank 200 ft upstream from bridge on State Highway 704, 700 ft downstream of remains of Georges Mill, 0.2 mi downstream of Elk Creek, 3 mi east of Francisco, and 7.9 mi downstream of Little Dan River.

DRAINAGE AREA.--129 mi^2.

PERIOD OF RECORD.--August 1924 to September 1987, December 1991 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1938-50 (monthly runoff). WSP 1433: 1925-26, 1928-29, 1931, 1942, 1948. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 831.99 ft above NGVD of 1929. Prior to Nov. 15, 1929, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Since 1938, considerable diurnal fluctuation and regulation by Talbott and Townes Reservoirs (stations 02067800 and 02067820, respectively) and Pinnacles Hydroelectric Plant in Virginia, 28 mi upstream. Minimum discharge for current water year also occurred Sept. 15, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 15 ft, from information by local residents, discharge, 16,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	449	205	330	220	230	231	314	243	169	131	210	111
2	384	205	298	217	221	222	524	226	202	191	158	123
3	338	205	271	214	254	216	497	216	208	153	150	128
4	313	227	255	212	261	190	375	206	186	212	181	127
5	280	223	247	208	241	191	324	203	158	186	192	91
6	256	207	247	207	234	218	304	204	161	156	190	88
7	245	205	249	203	228	215	312	202	158	446	155	87
8	233	202	242	193	226	288	325	200	311	490	127	88
9	226	198	313	189	227	316	306	192	242	203	151	86
10	220	196	572	189	226	272	294	163	299	194	148	88
11	214	196	379	185	215	251	288	e262	275	173	128	128
12	211	344	316	184	209	246	286	e204	209	165	161	87
13	558	339	291	185	205	213	263	e201	203	239	170	82
14	474	251	265	1,770	222	208	255	185	231	275	150	83
15	304	233	241	497	218	209	234	196	180	332	129	81
16	256	226	233	353	214	212	228	189	211	240	185	138
17	236	216	229	301	205	230	226	178	174	234	179	124
18	229	213	224	263	198	220	226	179	160	220	130	93
19	235	210	222	260	194	215	228	181	133	211	120	82
20	233	209	205	253	193	212	227	330	146	288	124	128
21	220	206	231	247	202	208	228	298	131	238	147	135
22	217	205	216	240	197	208	256	201	126	174	107	85
23	215	239	492	238	190	374	333	189	128	190	107	87
24	223	451	435	235	197	288	246	188	119	157	108	113
25	218	623	301	238	191	286	241	195	118	132	112	82
26	212	344	267	230	185	275	234	166	117	199	110	88
27	212	297	249	231	184	273	240	142	117	186	119	94
28	215	309	239	217	229	892	229	151	171	176	150	83
29	213	268	236	215	---	678	250	171	153	143	118	83
30	212	254	231	246	---	427	256	172	155	195	115	81
31	208	---	224	246	---	347	---	169	---	608	134	---
TOTAL	8,259	7,706	8,750	8,886	5,996	8,831	8,549	6,202	5,351	7,137	4,465	2,974
MEAN	266	257	282	287	214	285	285	200	178	230	144	99.1
MAX	558	623	572	1,770	261	892	524	330	311	608	210	138
MIN	208	196	205	184	184	190	226	142	117	131	107	81
†	-7	-11	0	+16	0	+1	-6	0	-5	-7	-3	-20

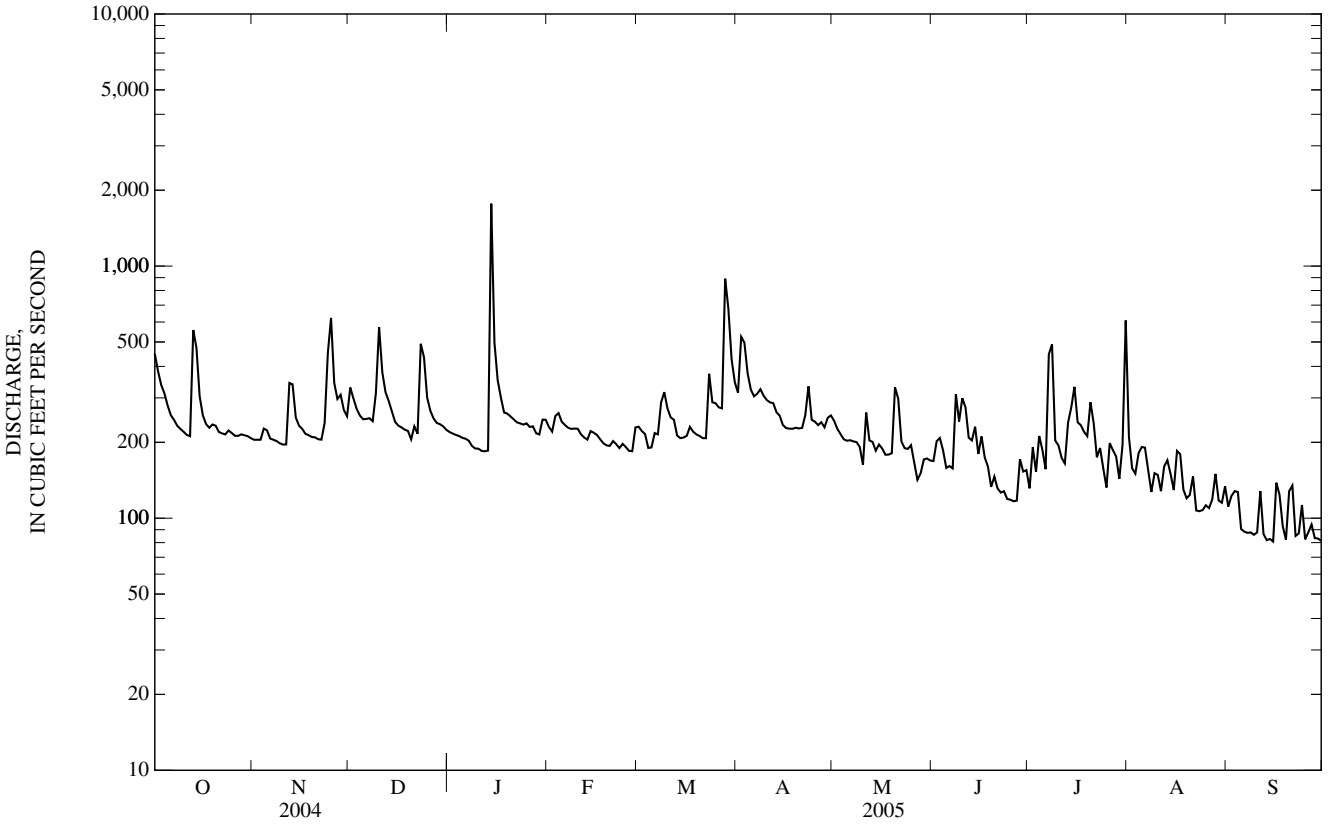
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2005,*@ BY WATER YEAR (WY)

MEAN	149	157	179	199	220	258	267	217	202	169	167	152
MAX	543	327	479	424	463	571	677	405	719	425	514	630
(WY)	(1938)	(1980)	(1997)	(1978)	(1960)	(1993)	(1980)	(1949)	(2003)	(2003)	(1940)	(1979)
MIN	49.7	61.3	77.5	76.2	94.9	94.2	119	95.3	77.9	54.8	52.5	50.4
(WY)	(1964)	(1954)	(1998)	(1956)	(1956)	(1981)	(2002)	(2000)	(2002)	(1986)	(1981)	(1968)

02068500 DAN RIVER NEAR FRANCISCO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1938 - 2005*@	
ANNUAL TOTAL	83,680		83,106			(UNADJUSTED)
ANNUAL MEAN	229		228	‡224	195	
HIGHEST ANNUAL MEAN					314	2003
LOWEST ANNUAL MEAN					93.6	2002
HIGHEST DAILY MEAN	5,990	Sep 28	1,770	Jan 14	6,830	Sep 22, 1979
LOWEST DAILY MEAN	90	Sep 6	81	Sep 15	21	Sep 4, 1999
ANNUAL SEVEN-DAY MINIMUM	95	Aug 31	89	Sep 24	28	Aug 24, 1981
MAXIMUM PEAK FLOW			4,800	Jan 14	21,200	Aug 17, 1985
MAXIMUM PEAK STAGE			7.31	Jan 14	19.50	Aug 17, 1985
INSTANTANEOUS LOW FLOW			80*	Sep 13	7.1	Sep 8, 1932
10 PERCENT EXCEEDS	314		315		320	
50 PERCENT EXCEEDS	195		213		156	
90 PERCENT EXCEEDS	118		124		81	

† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs provided by city of Danville, Virginia.
* Regulated period only (1982-2005). See REMARKS.
@ See PERIOD OF RECORD.
‡ Adjusted for change in contents.
e Estimated.



02070500 MAYO RIVER NEAR PRICE, NC

LOCATION.--Lat 36°32'02", long 79°59'29", Rockingham County, Hydrologic Unit 03010103, on right bank 350 ft downstream from Anglins Bridge on Secondary Road 1358, 0.5 mi downstream from confluence of North and South Mayo Rivers, 0.8 mi downstream from Virginia-North Carolina state line, and 4.0 mi west of Price.

DRAINAGE AREA.--242 mi^2.

PERIOD OF RECORD.--July 1929 to September 1971, October 1993 to current year.

REVISED RECORDS.--WSP 2104: Drainage area. WRIR 96-4154: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 689.95 ft above NGVD of 1929. Prior to Oct. 29, 1929, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred Sept. 14, 15, 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	594	306	508	334	352	375	525	374	246	255	870	199
2	518	305	480	327	337	340	766	348	375	599	477	189
3	479	305	428	325	382	345	701	340	413	282	378	183
4	449	376	398	323	460	358	566	334	330	282	332	176
5	405	400	379	321	415	395	517	327	298	269	306	170
6	382	335	373	321	381	395	488	329	275	293	287	166
7	365	323	380	315	365	373	470	324	271	617	279	163
8	353	316	366	309	359	462	497	320	414	1,710	311	160
9	344	304	446	307	355	453	474	315	367	426	361	161
10	339	300	1,130	302	354	403	440	308	489	316	422	157
11	327	298	670	301	335	369	429	477	564	280	328	153
12	322	626	511	301	326	353	419	309	336	278	289	151
13	498	746	449	299	319	339	435	302	308	296	269	151
14	680	438	405	2,360	342	341	459	305	353	331	260	152
15	451	365	381	798	336	332	411	313	297	382	260	154
16	384	338	369	529	321	327	392	317	267	328	277	163
17	355	323	361	450	316	405	385	291	251	287	386	198
18	341	314	353	399	305	436	385	300	240	282	295	171
19	347	307	348	385	298	380	382	379	237	564	276	162
20	369	303	324	379	298	365	377	369	236	379	346	157
21	342	296	335	377	312	359	368	684	239	353	299	165
22	334	290	326	360	307	338	371	376	239	461	229	169
23	332	398	492	350	299	440	488	324	228	419	241	162
24	334	939	605	322	311	512	393	300	217	291	240	157
25	337	1,240	436	364	315	419	370	298	210	261	216	158
26	323	640	396	337	299	395	360	280	207	240	207	171
27	315	487	373	330	292	385	366	268	204	227	204	179
28	320	659	353	290	346	2,300	352	266	216	230	212	169
29	320	490	350	308	---	1,150	367	262	225	334	207	160
30	320	433	348	367	---	687	393	259	462	278	216	157
31	313	---	339	407	---	578	---	250	---	2,750	225	---
TOTAL	11,892	13,200	13,412	13,197	9,437	15,109	13,346	10,248	9,014	14,300	9,505	4,983
MEAN	384	440	433	426	337	487	445	331	300	461	307	166
MAX	680	1,240	1,130	2,360	460	2,300	766	684	564	2,750	870	199
MIN	313	290	324	290	292	327	352	250	204	227	204	151
CFSM	1.59	1.82	1.79	1.76	1.39	2.01	1.84	1.37	1.24	1.91	1.27	0.69
IN.	1.83	2.03	2.06	2.03	1.45	2.32	2.05	1.58	1.39	2.20	1.46	0.77

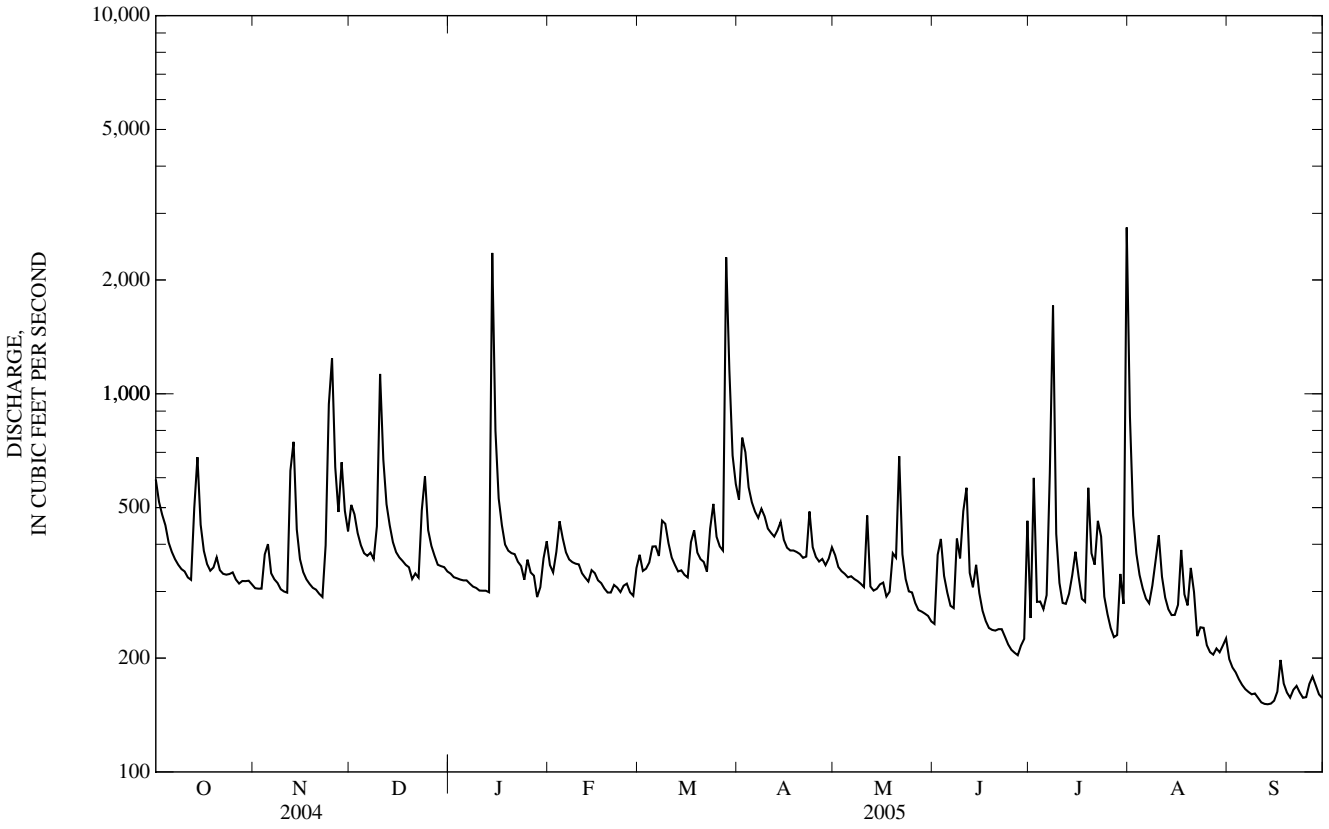
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005,[@] BY WATER YEAR (WY)

MEAN	268	248	295	354	390	427	398	323	302	263	262	253
MAX	1,250	578	661	1,022	900	982	764	659	1,018	799	943	1,002
(WY)	(1938)	(1958)	(1997)	(1936)	(1960)	(1994)	(2003)	(1949)	(2003)	(2003)	(1940)	(1945)
MIN	84.5	95.9	118	112	139	221	164	157	78.6	77.3	47.5	62.0
(WY)	(1932)	(1932)	(1956)	(1956)	(1931)	(1940)	(2002)	(1956)	(2002)	(2002)	(2002)	(1954)

02070500 MAYO RIVER NEAR PRICE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005[@]	
ANNUAL TOTAL	154,714		137,643			
ANNUAL MEAN	423		377		315	
HIGHEST ANNUAL MEAN					547	2003
LOWEST ANNUAL MEAN					136	2002
HIGHEST DAILY MEAN	7,860	Sep 28	2,750	Jul 31	11,400	Sep 18, 1945
LOWEST DAILY MEAN	191	Sep 6	151	Sep 12	33	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	203	Sep 1	154	Sep 9	33	Aug 10, 2002
MAXIMUM PEAK FLOW			5,050	Jan 14	30,000	Oct 19, 1937
MAXIMUM PEAK STAGE			6.29	Jan 14	14.00	Oct 19, 1937
INSTANTANEOUS LOW FLOW			148*	Sep 13	32	Oct 8, 1954
ANNUAL RUNOFF (CFSM)	1.75		1.56		1.30	
ANNUAL RUNOFF (INCHES)	23.78		21.16		17.67	
10 PERCENT EXCEEDS	596		497		500	
50 PERCENT EXCEEDS	332		336		236	
90 PERCENT EXCEEDS	246		211		124	

[@] See PERIOD OF RECORD.
* See REMARKS.



02071000 DAN RIVER NEAR WENTWORTH, NC

LOCATION.--Lat 36°24'45", long 79°49'34", Rockingham County, Hydrologic Unit 03010103, on right bank 600 ft downstream of Settles Bridge on Secondary Road 2150, 3.5 mi northwest of Wentworth, 7.5 mi downstream of Mayo River, and 103.7 mi upstream from mouth.

DRAINAGE AREA.--1,053 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for October 1939, published in WSP 1303.

REVISED RECORDS.--WDR NC-72-1: 1945(M). WDR NC-81-1: Drainage area. WRIR 96-4154: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 512.98 ft above NGVD of 1929. Prior to Aug. 3, 1949, water-stage recorder at site 150 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Slight fluctuation and regulation at low flow caused by Talbott and Townes Reservoirs (stations 02067800 and 02067820). Maximum gage height for period of record, from high-water mark in gage well.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 34.9 ft, from information by North Carolina State Highway Commission, and flood in 1937 reached a stage of 29.8 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,440	907	1,590	1,150	1,300	1,840	1,800	1,340	803	747	2,620	634
2	1,980	895	1,770	1,130	1,210	1,670	1,830	1,190	1,000	866	1,250	565
3	1,710	894	1,520	1,110	1,390	1,530	2,320	1,090	1,340	759	963	556
4	1,540	1,060	1,370	1,100	1,940	1,470	1,790	1,050	1,130	723	863	540
5	1,350	1,300	1,300	1,090	1,650	1,430	1,630	1,010	975	912	826	533
6	1,180	1,070	1,250	1,090	1,490	1,360	1,570	1,030	883	747	800	476
7	1,110	989	1,270	1,070	1,410	1,320	1,520	1,010	2,420	1,330	780	464
8	1,060	954	1,240	1,050	1,360	1,370	1,560	990	1,400	9,270	776	459
9	1,020	911	1,650	1,040	1,330	1,590	1,550	961	1,340	2,180	1,760	453
10	996	891	e3,200	1,010	1,340	1,450	1,450	996	1,800	1,420	2,630	445
11	985	887	e2,400	1,010	1,210	1,380	1,410	979	1,610	1,160	1,330	432
12	1,030	1,370	e2,000	1,000	1,150	1,320	1,380	975	1,200	987	999	459
13	1,090	3,100	e1,680	1,010	1,130	1,270	1,430	1,040	976	938	862	429
14	2,370	1,710	1,640	6,350	1,210	1,170	1,590	1,030	953	1,080	799	417
15	1,560	1,350	1,500	4,170	1,270	1,160	1,370	963	880	1,300	757	416
16	1,200	1,220	1,410	2,140	1,200	1,170	1,250	1,070	759	1,280	730	417
17	1,060	1,140	1,370	1,730	1,160	1,560	1,200	980	742	1,030	888	520
18	1,000	1,090	1,330	1,530	1,110	1,770	1,190	901	692	944	919	532
19	1,050	1,060	1,300	1,390	1,070	1,530	1,180	993	680	1,260	760	451
20	1,270	1,030	1,230	1,370	1,060	1,430	1,160	1,130	651	1,070	737	426
21	1,070	1,020	1,040	1,350	1,080	1,360	1,140	2,110	653	982	945	615
22	1,010	988	1,160	1,290	1,100	1,290	1,150	1,390	625	1,060	765	581
23	983	1,270	1,310	1,260	1,060	1,610	1,390	1,080	615	1,080	667	458
24	971	2,210	2,270	1,080	1,180	2,470	1,330	982	592	899	699	445
25	1,010	4,750	1,680	1,220	1,280	1,860	1,160	959	569	782	651	456
26	957	2,710	1,470	1,210	1,180	1,900	1,120	932	558	710	620	440
27	947	1,860	1,330	1,180	1,130	1,530	1,110	870	552	745	601	466
28	946	2,320	1,240	1,110	1,310	6,330	1,110	822	648	722	605	470
29	946	1,920	1,210	1,080	---	6,200	1,120	822	727	2,320	663	439
30	941	1,610	1,200	1,220	---	2,590	1,270	824	975	1,440	608	421
31	937	---	1,170	1,450	---	2,170	---	829	---	2,710	686	---
TOTAL	37,719	44,486	47,100	45,990	35,310	58,100	42,080	32,348	28,748	43,453	29,559	14,415
MEAN	1,217	1,483	1,519	1,484	1,261	1,874	1,403	1,043	958	1,402	954	480
MAX	2,440	4,750	3,200	6,350	1,940	6,330	2,320	2,110	2,420	9,270	2,630	634
MIN	937	887	1,040	1,000	1,060	1,160	1,110	822	552	710	601	416
CFSM	1.16	1.41	1.44	1.41	1.20	1.78	1.33	0.99	0.91	1.33	0.91	0.46
IN.	1.33	1.57	1.66	1.62	1.25	2.05	1.49	1.14	1.02	1.54	1.04	0.51

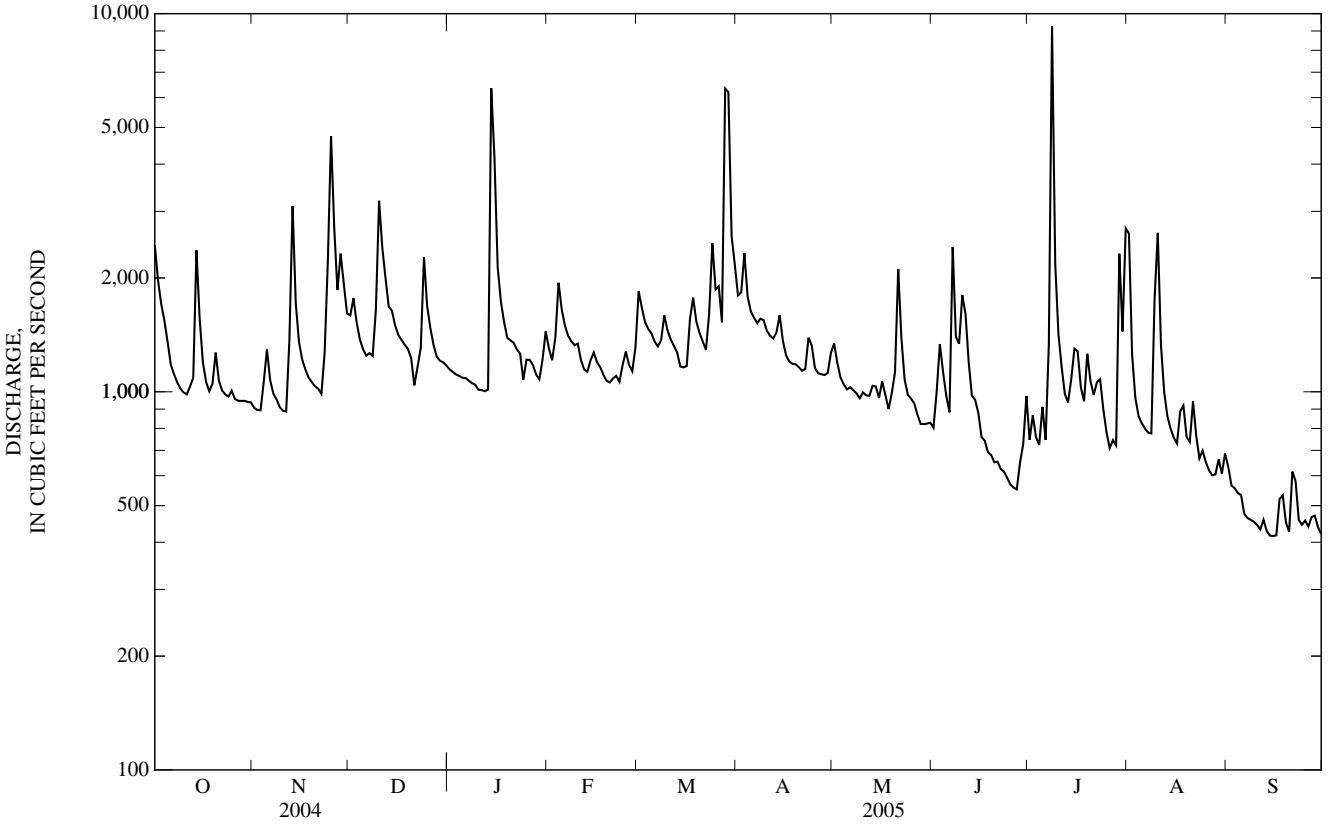
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	880	907	1,134	1,373	1,587	1,858	1,681	1,282	1,095	905	838	870
MAX	3,676	2,963	2,458	3,274	4,308	5,345	4,951	3,149	4,220	2,345	3,067	3,667
(WY)	(1960)	(1958)	(1997)	(1978)	(1960)	(1975)	(1987)	(1972)	(1972)	(1949)	(1940)	(1979)
MIN	219	231	398	392	518	661	520	411	233	202	102	166
(WY)	(2002)	(2002)	(2002)	(1956)	(2002)	(1985)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

02071000 DAN RIVER NEAR WENTWORTH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	481,316		459,308			
ANNUAL MEAN	1,315		1,258		1,199	
HIGHEST ANNUAL MEAN					1,985	1960
LOWEST ANNUAL MEAN					373	2002
HIGHEST DAILY MEAN	22,900	Sep 29	9,270	Jul 8	47,800	Jun 22, 1972
LOWEST DAILY MEAN	517	Sep 6	416	Sep 15	63	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	544	Sep 1	431	Sep 10	65	Aug 9, 2002
MAXIMUM PEAK FLOW			13,000	Jul 8	54,200	Jun 22, 1972
MAXIMUM PEAK STAGE			16.17	Jul 8	31.60*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			364	Sep 23	62	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	1.25		1.20		1.14	
ANNUAL RUNOFF (INCHES)	17.00		16.23		15.48	
10 PERCENT EXCEEDS	1,810		1,810		2,010	
50 PERCENT EXCEEDS	1,040		1,110		832	
90 PERCENT EXCEEDS	701		615		398	

* See REMARKS.
e Estimated.



02074000 SMITH RIVER AT EDEN, NC

LOCATION.--Lat 36°31'32", long 79°45'56", Rockingham County, Hydrologic Unit 03010103, on right bank at Eden, 0.3 mi downstream of bridge on State Highway 14, 0.8 mi upstream from bridge on Secondary Road 1714, 1.2 mi south of Virginia-North Carolina State line, 1.3 mi downstream of Stuart Creek, and 3.9 mi upstream from mouth.

DRAINAGE AREA.--538 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Prior to October 1970, published as "Smith River at Spray".

REVISED RECORDS.--WSP 1433: 1946.

GAGE.--Water-stage recorder. Datum of gage is 539.56 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated since August 1950 by Philpott Lake, 40 mi upstream (usable capacity, 6,325,000,000 ft^3). Additional regulation by hydroelectric plant at Martinsville, Virginia, 18 mi upstream. Maximum discharge prior to regulation: 45,600 ft^3/s, Aug. 15, 1940, from rating curve extended above 12,000 ft^3/s on the basis of computation of peak flow over dam 1.5 mi downstream; gage height: 19.28 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,770	610	1,090	791	690	944	1,360	485	948	566	1,300	514
2	1,640	837	815	541	736	868	1,760	567	954	847	975	625
3	1,740	863	1,290	640	827	872	1,690	751	623	454	949	474
4	1,770	956	1,330	1,290	869	890	1,430	724	646	527	881	306
5	1,680	1,010	1,210	1,150	726	794	1,390	797	482	1,030	851	319
6	1,260	857	1,190	1,180	639	705	1,340	903	510	787	786	448
7	968	467	1,240	1,160	789	820	1,340	835	680	1,710	449	493
8	932	619	1,220	993	756	1,040	1,360	344	680	3,440	559	471
9	887	665	1,170	430	792	1,070	1,310	517	998	1,100	974	591
10	412	632	2,250	649	809	1,070	1,280	787	827	531	1,030	378
11	597	662	1,270	858	768	1,020	1,270	723	649	623	839	281
12	936	1,010	811	837	630	853	1,270	753	548	929	823	300
13	1,090	1,430	960	839	541	514	1,320	859	463	785	719	466
14	1,430	773	1,150	3,280	790	824	1,300	550	830	1,090	398	523
15	1,030	800	1,240	1,470	845	1,090	1,050	492	785	1,010	428	535
16	1,010	798	1,220	1,010	741	1,090	889	571	786	811	737	428
17	405	858	1,220	1,320	841	1,290	435	712	614	594	1,050	498
18	525	872	1,060	1,260	869	952	642	617	490	605	729	240
19	1,120	872	519	1,200	641	1,270	936	679	452	979	580	252
20	1,200	828	661	1,220	524	635	917	527	424	967	551	526
21	1,330	422	856	1,230	726	818	920	599	612	815	434	754
22	968	578	770	1,090	796	1,080	909	497	700	984	417	435
23	1,110	1,020	942	485	784	1,270	1,010	550	635	886	762	450
24	386	1,720	1,110	708	824	1,530	595	467	472	529	726	329
25	607	2,340	837	1,150	846	1,240	667	483	518	561	674	256
26	918	1,310	585	1,120	621	1,040	744	822	443	732	715	295
27	860	1,010	761	1,120	525	603	784	952	429	786	480	546
28	859	1,010	774	1,110	789	3,180	722	1,020	754	715	361	468
29	860	1,060	760	996	---	2,170	815	984	609	968	404	461
30	822	1,020	761	505	---	1,590	855	417	680	814	730	472
31	406	---	957	880	---	1,400	---	511	---	2,210	745	---
TOTAL	31,528	27,909	32,029	32,512	20,734	34,532	32,310	20,495	19,241	29,385	22,056	13,134
MEAN	1,017	930	1,033	1,049	740	1,114	1,077	661	641	948	711	438
MAX	1,770	2,340	2,250	3,280	869	3,180	1,760	1,020	998	3,440	1,300	754
MIN	386	422	519	430	524	514	435	344	424	454	361	240
CFSM	1.89	1.73	1.92	1.95	1.38	2.07	2.00	1.23	1.19	1.76	1.32	0.81
IN.	2.18	1.93	2.21	2.25	1.43	2.39	2.23	1.42	1.33	2.03	1.53	0.91
†	-230	76	-32	-30	58	96	-89	-26	-5	8	-71	-119

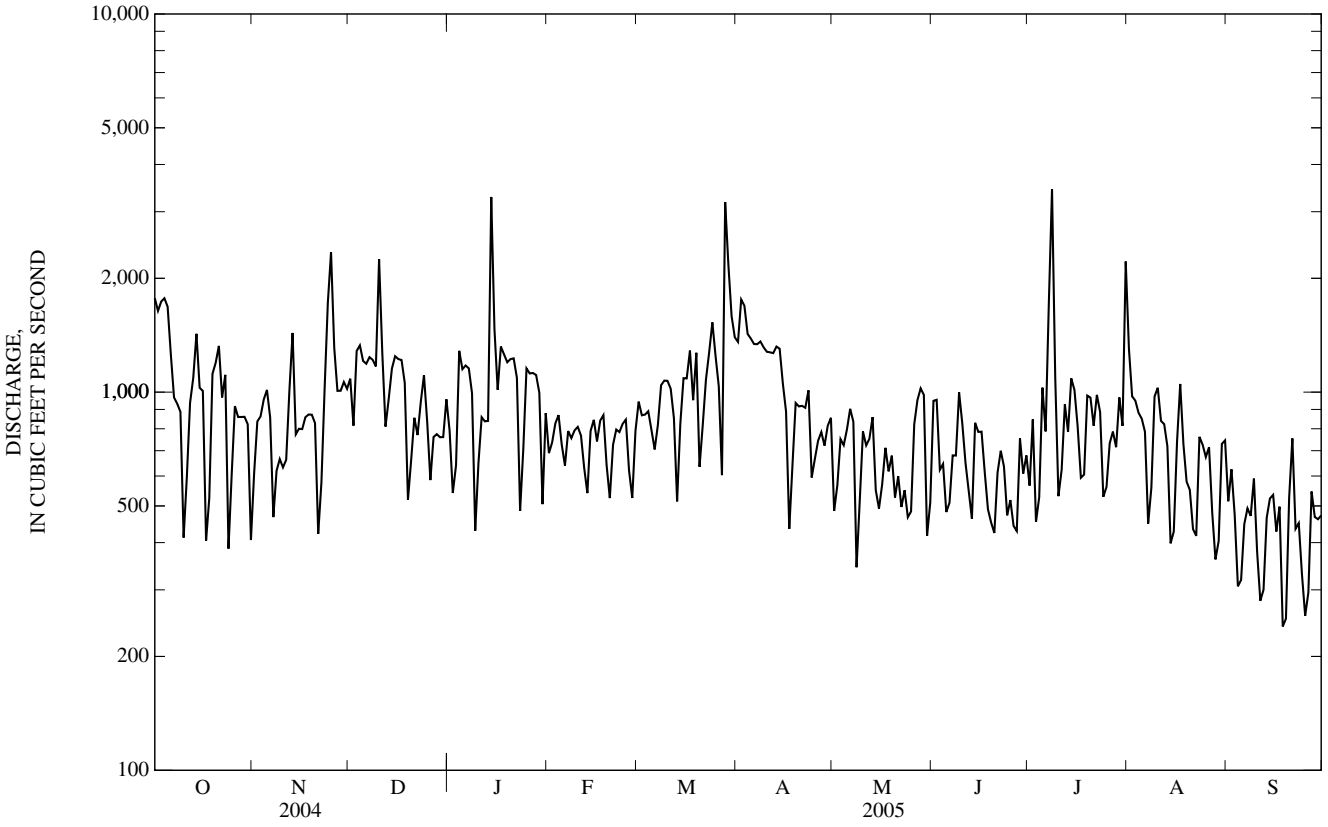
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005,* BY WATER YEAR (WY)

MEAN	510	506	593	685	731	891	888	706	654	520	501	538
MAX	1,572	1,530	1,376	1,453	1,633	2,519	3,016	1,567	2,026	1,374	1,454	2,030
(WY)	(1990)	(1986)	(1997)	(1979)	(1998)	(1993)	(1987)	(1978)	(1972)	(1989)	(1985)	(1996)
MIN	201	211	267	291	249	331	248	266	146	151	126	165
(WY)	(1952)	(1982)	(2001)	(1989)	(2002)	(1967)	(2002)	(1964)	(2002)	(2002)	(2002)	(2002)

02074000 SMITH RIVER AT EDEN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005*	
ANNUAL TOTAL	309,988		315,865			
ANNUAL MEAN	847		865	‡834	643	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1,010	1987
LOWEST ANNUAL MEAN					254	2002
HIGHEST DAILY MEAN	5,610	Sep 8	3,440	Jul 8	16,700	Jun 21, 1972
LOWEST DAILY MEAN	190	Aug 29	240	Sep 18	46	Aug 14, 1967
ANNUAL SEVEN-DAY MINIMUM	383	Aug 24	397	Sep 22	100	Aug 10, 2002
MAXIMUM PEAK FLOW			6,980	Mar 28	24,800	Jun 21, 1972
MAXIMUM PEAK STAGE			8.22	Mar 28	16.24	Jun 21, 1972
INSTANTANEOUS LOW FLOW			218	Sep 24	38	Aug 7, 1967
ANNUAL RUNOFF (CFSM)	1.57		1.61		1.19	
ANNUAL RUNOFF (INCHES)	21.43		21.84		16.23	
10 PERCENT EXCEEDS	1,250		1,290		1,180	
50 PERCENT EXCEEDS	748		811		454	
90 PERCENT EXCEEDS	431		462		222	

† Change in contents, equivalent in cubic feet per second, in Philpott Lake provided by U.S. Army Corps of Engineers.
* Regulated period only (1951-2005). See REMARKS.
‡ Adjusted for change in contents.



0207428225 WOLF ISLAND CREEK BELOW SR 1998 AT REIDSVILLE, NC

LOCATION.--Lat 36°22'26", long 79°41'01", Rockingham County, Hydrologic Unit 03010103, approximately 0.15 mi below State Road 1998, upstream of unnamed tributary, at Reidsville.

DRAINAGE AREA.--3.75 mi^2.

PERIOD OF RECORD.--April 2003 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 660 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year and period of record also occurred Sept. 4, 10-11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.8	6.1	3.3	3.6	9.2	4.7	4.2	0.90	0.83	1.4	e0.52
2	3.8	2.7	5.0	3.2	3.5	6.7	5.7	2.7	3.3	0.81	1.2	e0.50
3	3.7	2.8	4.6	3.4	9.4	5.4	4.3	2.5	3.4	0.71	0.92	e0.48
4	3.8	9.1	4.4	3.3	6.5	4.6	4.0	2.3	1.7	4.6	0.81	e0.47
5	3.2	5.2	4.2	3.2	5.1	4.2	3.6	2.1	1.3	2.0	0.75	e0.46
6	2.2	4.2	4.1	3.2	4.8	3.8	3.4	3.2	1.1	1.2	0.69	e0.45
7	e1.9	4.0	4.4	3.2	4.3	3.7	4.3	2.2	1.2	23	0.65	e0.44
8	e1.3	4.0	4.3	3.8	4.2	6.6	4.1	1.9	2.9	8.5	0.50	0.43
9	e1.3	3.7	14	3.7	3.8	4.5	3.6	1.8	18	4.4	4.6	0.43
10	e1.1	3.6	65	4.0	3.6	4.4	3.3	1.7	5.6	2.7	2.6	e0.43
11	e1.0	3.7	17	3.9	3.2	3.8	3.2	1.6	3.5	2.2	1.8	e0.43
12	e2.0	32	9.2	3.5	3.2	3.4	3.4	1.6	3.0	1.7	1.1	e0.42
13	e1.8	14	6.7	3.0	3.0	3.4	3.8	1.6	2.6	1.8	0.84	e0.42
14	e7.3	7.1	5.1	44	4.2	3.7	3.6	1.5	2.4	2.0	0.90	e0.42
15	e2.7	5.7	4.5	10	3.8	3.4	3.1	1.6	1.6	2.6	0.75	e0.42
16	e2.5	5.2	4.2	6.1	3.6	5.9	3.0	1.3	1.4	1.8	1.0	e0.43
17	e1.8	4.6	4.0	4.8	3.4	12	2.8	1.2	1.4	1.7	0.81	e0.43
18	e2.2	4.4	3.9	4.1	3.2	7.6	2.9	1.7	1.3	1.3	0.80	e0.43
19	e3.4	4.2	3.8	4.1	3.1	5.3	2.9	2.3	1.4	1.3	0.75	e0.43
20	e13	4.1	3.5	3.9	3.1	4.4	2.9	3.2	1.2	1.2	0.69	e0.42
21	e4.2	3.9	3.5	4.0	3.2	4.1	2.8	2.9	1.0	0.99	0.66	e0.42
22	e3.9	3.9	3.5	3.8	3.1	3.7	2.9	1.7	1.1	0.99	0.64	e0.42
23	3.1	16	5.9	3.6	3.0	8.0	2.9	1.4	1.0	0.92	e0.62	e0.42
24	2.9	20	4.5	3.6	4.0	6.3	2.5	1.4	0.92	0.92	e0.61	e0.41
25	2.7	16	4.1	3.8	3.3	4.7	2.3	1.2	0.88	1.0	e0.60	e0.41
26	2.5	8.0	4.0	3.6	3.1	4.3	2.4	1.1	0.84	0.89	e0.60	e0.40
27	e2.5	9.6	3.8	3.3	3.1	4.2	2.6	0.99	0.94	0.84	e0.59	e0.41
28	e2.2	19	3.5	3.2	11	61	2.4	0.95	1.1	0.95	e0.57	e0.40
29	2.8	7.4	3.5	3.7	---	14	3.1	0.92	1.2	6.0	e0.56	e0.40
30	2.6	6.2	3.4	5.0	---	7.5	2.6	0.91	0.94	2.5	e0.55	e0.40
31	2.6	---	3.3	4.1	---	5.7	---	0.83	---	2.0	e0.53	---
TOTAL	96.0	237.1	221.0	163.4	116.4	229.5	99.1	56.50	69.12	84.35	30.09	12.95
MEAN	3.10	7.90	7.13	5.27	4.16	7.40	3.30	1.82	2.30	2.72	0.97	0.43
MAX	13	32	65	44	11	61	5.7	4.2	18	23	4.6	0.52
MIN	1.0	2.7	3.3	3.0	3.0	3.4	2.3	0.83	0.84	0.71	0.50	0.40
CFSM	0.83	2.11	1.90	1.41	1.11	1.97	0.88	0.49	0.61	0.73	0.26	0.12
IN.	0.95	2.35	2.19	1.62	1.15	2.28	0.98	0.56	0.69	0.84	0.30	0.13

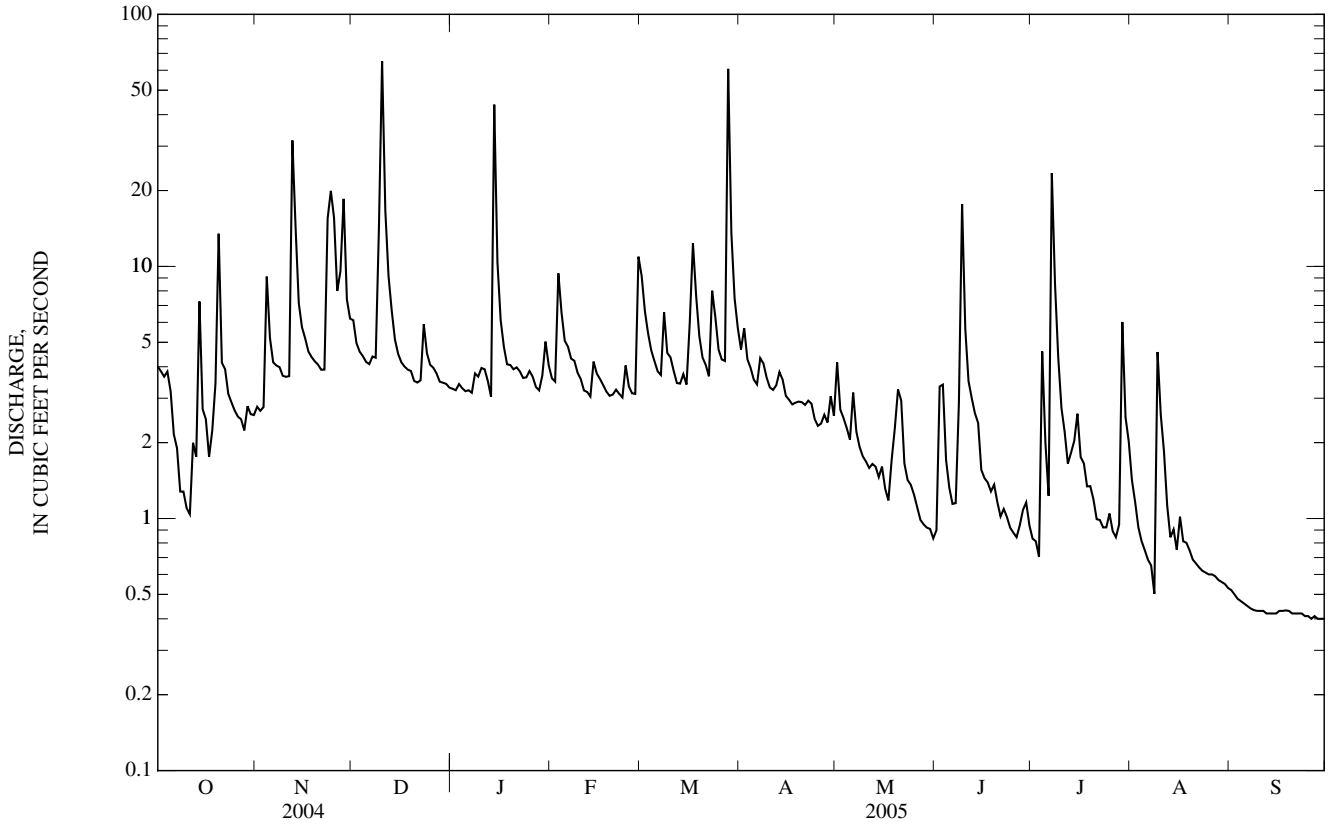
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	3.05	5.66	6.88	3.99	6.88	5.01	3.83	5.43	7.39	3.44	4.83	6.68
MAX	3.10	7.90	7.13	5.27	9.50	7.40	4.35	10.4	14.9	4.27	10.1	11.7
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)
MIN	3.01	3.42	6.64	2.70	4.16	2.63	3.30	1.82	2.30	2.72	0.97	0.43
(WY)	(2004)	(2004)	(2004)	(2004)	(2005)	(2004)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	1,848.30		1,415.51			
ANNUAL MEAN	5.05		3.88		4.26	
HIGHEST ANNUAL MEAN					4.63	2004
LOWEST ANNUAL MEAN					3.88	2005
HIGHEST DAILY MEAN	87	Feb 6	65	Dec 10	106	Jun 16, 2003
LOWEST DAILY MEAN	0.73	Aug 9	0.40	Sep 26	0.40	Sep 26, 2005
ANNUAL SEVEN-DAY MINIMUM	1.1	Aug 4	0.40	Sep 24	0.40	Sep 24, 2005
MAXIMUM PEAK FLOW			336	Mar 28	336	Mar 28, 2005
MAXIMUM PEAK STAGE			4.68	Mar 28	8.13	Sep 23, 2003
INSTANTANEOUS LOW FLOW			NOT DETERMINED		NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	1.35		1.03		1.13	
ANNUAL RUNOFF (INCHES)	18.34		14.04		15.42	
10 PERCENT EXCEEDS	9.0		6.2		6.6	
50 PERCENT EXCEEDS	2.8		3.1		2.8	
90 PERCENT EXCEEDS	1.4		0.60		0.94	

e Estimated.

0207428225 WOLF ISLAND CREEK BELOW SR 1998 AT REIDSVILLE, NC—Continued



02077200 HYCO CREEK NEAR LEASBURG, NC

LOCATION.--Lat 36°23'52", long 79°11'48", Caswell County, Hydrologic Unit 03010104, on right bank 10 ft upstream from bridge on U.S. Highway 158, 1.5 mi upstream from Kilgore Creek, and 2.5 mi west of Leasburg.

DRAINAGE AREA.--45.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year. Prior to October 1968 published as "North Hyco Creek near Leasburg".

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 400.08 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmark. Periods of no flow occur most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	17	57	20	51	218	72	30	7.4	6.8	5.4	0.04
2	237	16	48	20	43	97	80	27	11	5.6	3.6	0.02
3	73	16	42	19	65	64	83	21	16	4.9	2.8	0.00
4	87	39	36	19	150	50	58	18	14	5.6	2.0	0.00
5	43	68	32	18	114	45	49	16	11	16	1.7	0.00
6	26	42	30	19	73	39	43	20	9.5	12	2.4	0.00
7	19	32	31	20	57	35	40	20	8.7	20	2.2	0.00
8	16	27	29	19	49	41	48	16	16	65	1.8	0.00
9	14	23	35	17	44	52	41	14	15	19	2.2	0.00
10	12	20	1,240	16	49	41	34	13	40	7.8	2.9	0.00
11	11	18	425	15	43	36	30	12	26	5.2	2.7	0.00
12	11	188	149	15	37	35	29	12	17	4.4	2.0	0.00
13	12	832	93	16	33	31	36	17	13	e4.1	1.5	0.00
14	21	164	67	832	36	30	31	14	13	3.9	1.2	0.00
15	19	83	52	462	47	28	28	12	13	3.6	1.0	0.00
16	13	58	45	129	43	32	26	12	9.9	3.4	1.0	0.00
17	11	47	41	81	37	198	25	11	8.6	3.2	1.7	0.00
18	9.9	40	37	56	30	230	25	10	7.7	3.0	2.7	0.00
19	13	35	34	46	27	106	24	10	7.2	2.5	2.1	0.00
20	57	31	31	44	26	73	24	16	7.0	2.1	1.5	0.01
21	37	28	32	43	27	56	23	18	6.9	1.9	1.1	0.00
22	26	25	26	39	27	47	22	12	6.7	1.7	0.90	0.00
23	21	39	32	36	23	57	24	10	6.8	2.2	0.87	0.00
24	20	96	49	39	27	103	22	9.8	7.0	1.8	0.74	0.00
25	20	159	37	29	42	76	20	9.3	6.6	1.5	0.60	0.00
26	18	84	31	31	32	56	19	9.2	6.2	1.4	0.50	0.00
27	16	54	28	28	28	48	19	8.6	6.3	1.3	0.38	0.00
28	16	201	26	22	144	935	17	8.2	6.2	1.1	0.32	0.00
29	16	119	25	e21	---	522	18	8.0	6.3	1.9	0.25	e0.00
30	16	70	25	e36	---	155	22	8.2	6.9	3.5	0.17	e0.00
31	18	---	22	61	---	96	---	8.0	---	11	0.08	---
TOTAL	941.9	2,671	2,887	2,268	1,404	3,632	1,032	430.3	336.9	227.4	50.31	0.07
MEAN	30.4	89.0	93.1	73.2	50.1	117	34.4	13.9	11.2	7.34	1.62	0.00
MAX	237	832	1,240	832	150	935	83	30	40	65	5.4	0.04
MIN	9.9	16	22	15	23	28	17	8.0	6.2	1.1	0.08	0.00
CFSM	0.66	1.94	2.03	1.59	1.09	2.55	0.75	0.30	0.24	0.16	0.04	0.00
IN.	0.76	2.16	2.34	1.84	1.14	2.94	0.84	0.35	0.27	0.18	0.04	0.00

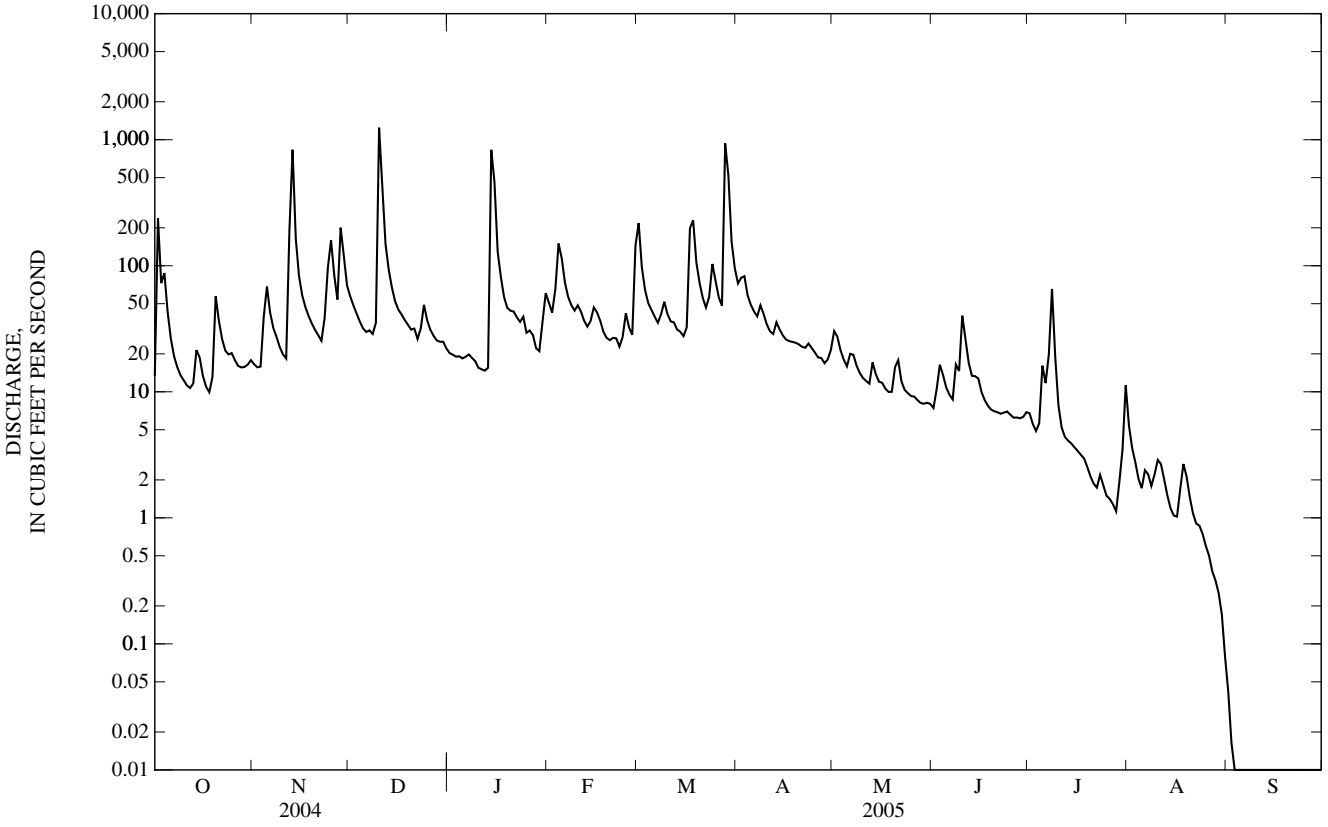
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	25.6	29.4	47.4	78.3	86.3	95.4	62.6	33.5	26.4	22.3	21.3	25.5
MAX	131	137	144	278	244	266	194	184	233	274	264	193
(WY)	(1996)	(1973)	(1973)	(1978)	(1979)	(1975)	(2003)	(1978)	(1995)	(1975)	(1995)	(1996)
MIN	0.00	0.10	2.33	6.15	13.2	23.1	8.45	2.55	0.14	0.00	0.00	0.00
(WY)	(1969)	(2002)	(2002)	(1981)	(2002)	(1976)	(2002)	(2002)	(2002)	(2002)	(2002)	(1968)

02077200 HYCO CREEK NEAR LEASBURG, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	13,361.99		15,880.88			
ANNUAL MEAN	36.5		43.5		46.0	
HIGHEST ANNUAL MEAN					113	2003
LOWEST ANNUAL MEAN					8.68	2002
HIGHEST DAILY MEAN	1,240	Dec 10	1,240	Dec 10	7,400	Aug 28, 1995
LOWEST DAILY MEAN	0.19	Jul 17	0.00	Sep 3	0.00	Jul 9, 1966
ANNUAL SEVEN-DAY MINIMUM	0.41	Jul 17	0.00	Sep 3	0.00	Jul 9, 1966
MAXIMUM PEAK FLOW			2,580	Dec 10	NOT DETERMINED	
MAXIMUM PEAK STAGE			35.42	Dec 10	48.53*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			0.00*	Sep 2	0.00*	Jul 8, 1966
ANNUAL RUNOFF (CFSM)	0.795		0.948		1.00	
ANNUAL RUNOFF (INCHES)	10.83		12.87		13.62	
10 PERCENT EXCEEDS	67		73		87	
50 PERCENT EXCEEDS	19		20		15	
90 PERCENT EXCEEDS	2.3		0.56		0.77	

* See REMARKS.
e Estimated



02077200 HYCO CREEK NEAR LEASBURG, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1964 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1964 to current year.

INSTRUMENTATION.--Water-temperature recorder since May 1964.

REMARKS.--Miscellaneous water-quality data published for water years, 1959, 1965-67; 1959 data published as "North Hyco Creek near Leasburg" (station 02077202). Prior to Oct. 1967, daily water-temperature data published as "North Hyco Creek near Leasburg". Interruptions in the record due to malfunctions of the instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 31.3°C, July 17, 1996; minimum recorded, 0.0°C, many days during winter months in most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 29.7°C, July 27; minimum recorded, 0.2°C, Dec. 21, 28, Jan. 24.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	19.5	20.0	19.5	16.9	18.3	12.0	10.0	11.1	8.9	6.4	7.6
2	21.2	20.3	20.7	19.1	17.3	18.4	10.2	7.7	8.8	9.6	7.5	8.6
3	21.2	19.8	20.3	20.0	18.6	19.2	8.1	6.5	7.3	10.6	8.4	9.6
4	20.5	19.4	20.0	18.9	15.4	16.7	7.3	5.4	6.4	12.7	10.5	11.5
5	20.0	18.0	18.9	15.4	12.9	14.2	7.4	5.1	6.3	12.8	11.1	12.1
6	18.0	16.4	17.1	13.2	11.0	12.2	9.1	6.8	7.9	13.2	11.6	12.5
7	17.3	14.5	16.0	13.2	10.2	11.9	12.7	9.1	10.7	13.0	11.2	11.8
8	17.2	14.6	16.0	13.1	10.9	12.0	13.0	11.5	12.3	11.9	10.7	11.5
9	17.0	14.8	16.0	11.6	9.1	10.1	11.5	9.5	9.9	10.7	8.6	9.5
10	18.4	16.2	17.3	9.7	7.6	8.8	10.9	9.5	10.2	9.4	7.5	8.6
11	17.6	15.3	16.4	10.5	7.9	9.1	11.0	10.4	10.9	9.1	7.4	8.4
12	17.0	14.3	15.7	12.4	10.5	11.5	10.4	8.6	9.2	10.3	7.8	9.1
13	17.2	16.3	16.7	12.5	11.7	12.2	9.2	8.0	8.8	13.8	10.2	11.7
14	17.9	16.1	17.0	11.7	9.1	9.9	8.0	5.1	6.5	14.4	11.9	13.4
15	17.9	16.3	17.1	9.1	7.3	8.2	5.1	3.3	4.2	11.9	7.9	9.2
16	16.3	14.0	15.0	8.5	7.8	8.1	3.9	2.3	3.1	7.9	6.5	6.9
17	14.6	12.1	13.5	9.6	7.4	8.4	4.7	2.7	3.6	6.8	3.1	4.9
18	14.3	12.1	13.2	11.8	9.1	10.6	4.9	3.1	4.0	3.1	1.0	2.1
19	17.1	14.3	15.7	13.7	11.6	12.6	4.3	3.1	3.7	1.0	0.5	0.7
20	17.1	16.1	16.6	14.3	12.6	13.4	3.4	0.5	1.3	2.3	1.0	1.7
21	16.1	15.6	15.8	14.7	13.0	13.9	2.3	0.2	1.1	2.7	2.0	2.3
22	15.9	15.3	15.6	14.2	13.0	13.6	5.0	1.2	2.8	2.4	2.2	2.2
23	15.4	14.1	14.7	14.0	13.5	13.8	8.2	5.0	6.7	2.2	0.4	1.2
24	15.0	14.2	14.6	14.9	13.9	14.3	7.3	4.7	6.1	0.7	0.2	0.4
25	16.7	15.0	15.6	15.1	12.7	14.5	4.7	3.1	3.8	2.9	0.3	1.5
26	16.5	14.6	15.5	12.7	8.8	10.3	3.1	2.2	2.6	5.0	2.0	3.5
27	15.6	13.9	14.5	8.9	7.3	8.3	2.4	1.0	1.7	5.2	3.5	4.2
28	15.3	14.6	14.9	11.0	8.9	10.3	1.9	0.2	1.1	3.6	1.2	2.1
29	16.0	14.9	15.4	10.5	8.7	9.3	4.4	1.3	2.7	---	---	---
30	19.0	16.0	17.3	10.0	8.4	9.2	6.5	4.4	5.3	---	---	---
31	19.1	16.8	18.1	---	---	---	7.2	5.1	6.2	3.3	1.4	2.3
MONTH	21.2	12.1	16.5	20.0	7.3	12.1	13.0	0.2	6.0	---	---	---

02077200 HYCO CREEK NEAR LEASBURG, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.6	2.2	2.8	5.8	4.5	5.2	14.2	13.3	13.7	19.0	15.9	17.4
2	3.5	1.5	2.6	5.8	3.6	4.9	15.4	13.6	14.6	17.3	14.9	16.2
3	3.5	2.8	3.1	6.0	3.8	5.0	13.9	10.9	12.6	17.6	13.6	15.6
4	5.0	2.7	3.7	7.0	3.7	5.4	15.9	11.9	13.8	16.8	14.3	15.6
5	5.5	3.5	4.7	8.4	6.0	7.2	17.6	13.1	15.3	15.7	14.1	14.8
6	6.2	4.1	5.3	9.7	6.1	7.9	19.3	15.3	17.2	14.8	13.3	13.7
7	7.4	5.3	6.3	11.5	7.2	9.3	18.2	17.1	17.6	16.3	11.5	13.9
8	9.6	6.7	8.1	11.5	8.8	10.6	18.3	16.3	17.2	18.7	14.3	16.5
9	9.6	8.8	9.2	9.0	6.7	7.9	19.5	16.1	17.5	19.5	15.0	17.3
10	9.6	7.4	9.1	9.0	6.0	7.4	19.1	14.1	16.6	20.0	15.8	18.0
11	7.4	5.3	6.2	9.3	6.3	7.8	20.2	14.8	17.5	21.7	17.6	19.7
12	7.0	3.9	5.4	10.6	6.3	8.4	19.0	15.3	16.7	22.3	19.2	20.9
13	7.8	4.8	6.3	12.7	7.6	10.3	15.3	12.0	13.2	21.6	19.2	20.1
14	9.4	7.3	8.3	12.0	8.9	10.4	15.3	10.2	12.7	21.1	18.2	19.6
15	10.6	8.0	9.3	10.5	6.3	8.6	16.7	12.1	14.3	20.7	19.8	20.3
16	12.1	9.3	10.7	9.6	6.4	8.1	15.9	10.8	13.5	21.2	18.1	19.6
17	11.1	8.4	9.8	6.4	4.8	5.3	16.7	10.6	13.8	20.5	18.1	19.3
18	8.4	5.7	7.0	9.4	4.7	6.5	18.1	12.5	15.4	20.9	17.8	19.3
19	7.2	3.8	5.7	10.1	6.9	8.5	19.3	14.4	17.0	21.7	19.3	20.4
20	6.7	5.5	6.1	12.1	8.8	10.5	20.6	16.0	18.5	21.9	19.7	20.5
21	8.9	6.4	7.4	12.4	9.7	11.2	21.5	16.8	19.3	20.5	17.4	19.0
22	11.2	7.4	9.3	12.1	9.7	11.0	20.6	18.0	19.5	21.1	17.5	19.3
23	11.2	8.0	9.8	12.4	11.5	12.0	19.9	17.0	18.9	21.5	18.8	20.1
24	10.3	7.0	8.3	13.5	10.8	12.1	17.0	13.2	14.5	20.6	18.2	19.3
25	7.0	5.6	6.3	13.4	11.6	12.2	16.2	11.5	13.8	18.3	16.8	17.6
26	7.8	4.0	5.9	12.1	11.1	11.5	15.1	13.1	14.1	20.7	16.3	18.2
27	7.3	4.9	6.2	11.1	10.8	11.0	16.7	13.9	15.2	21.0	17.5	19.2
28	6.7	4.4	5.1	13.6	10.8	12.2	16.7	12.7	15.0	20.3	18.9	19.5
29	---	---	---	15.6	11.6	13.4	16.8	14.8	15.9	19.4	17.1	18.4
30	---	---	---	15.5	12.7	14.2	17.3	15.8	16.6	20.8	17.6	19.0
31	---	---	---	15.5	13.9	14.4	---	---	---	21.1	18.3	19.5
MONTH	12.1	1.5	6.7	15.6	3.6	9.4	21.5	10.2	15.7	22.3	11.5	18.3
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.6	18.1	18.7	27.8	24.4	26.0	25.6	22.6	23.9	25.0	21.6	23.0
2	18.1	17.3	17.5	26.5	24.5	25.5	26.3	22.7	24.4	24.4	20.6	22.1
3	18.2	17.3	17.7	25.5	23.5	24.6	27.6	23.7	25.3	24.1	20.0	21.5
4	20.6	18.0	19.1	24.8	23.9	24.4	27.5	23.8	25.4	23.1	19.3	20.7
5	22.4	19.5	21.0	26.5	23.2	24.7	27.8	24.1	25.7	23.4	19.1	20.4
6	25.0	21.3	23.0	27.0	24.5	25.8	26.0	24.0	25.1	23.4	18.9	20.4
7	25.6	23.0	24.2	26.4	23.1	25.2	25.4	22.7	23.9	22.5	18.0	19.7
8	25.4	22.8	24.1	24.6	22.9	23.9	24.8	23.0	23.9	22.2	17.7	19.4
9	26.2	23.5	24.7	26.0	22.9	24.4	25.0	23.3	24.0	22.0	17.2	19.1
10	25.0	23.5	24.3	26.2	23.5	24.9	25.8	23.4	24.3	22.2	17.5	19.4
11	25.6	23.8	24.7	25.6	24.3	25.0	26.4	22.7	24.3	22.7	17.6	19.3
12	25.3	23.3	24.4	27.5	24.6	25.8	26.9	23.3	25.0	21.5	17.0	18.8
13	25.5	24.0	24.7	---	---	---	27.6	24.3	25.8	21.8	17.7	19.6
14	27.5	24.0	25.6	---	---	---	27.7	24.8	26.1	23.5	20.0	21.4
15	27.5	24.7	26.0	---	---	---	28.4	24.5	26.1	25.9	20.8	22.5
16	26.0	23.6	24.8	---	---	---	28.4	24.8	26.1	25.0	21.2	22.5
17	24.7	21.7	23.2	---	---	---	26.1	25.0	25.4	24.1	20.5	22.0
18	23.7	20.3	22.0	---	---	---	25.0	23.4	24.1	24.4	20.7	22.0
19	23.0	20.6	21.8	---	---	---	26.3	23.3	24.6	23.7	20.2	21.6
20	23.4	20.9	22.0	29.3	25.9	27.2	27.0	24.3	25.5	25.3	20.9	22.5
21	23.0	19.4	21.2	28.1	25.3	26.7	28.0	24.7	26.0	24.1	20.6	22.1
22	23.2	20.3	21.8	28.8	25.4	26.7	26.4	23.4	24.9	24.4	20.1	21.8
23	24.0	20.3	22.2	27.6	24.8	26.1	25.0	23.5	24.0	23.9	20.3	21.8
24	24.9	21.0	22.8	26.5	23.6	25.0	24.9	22.7	23.6	22.2	20.8	21.5
25	24.1	21.0	22.7	28.4	23.6	25.6	24.8	21.9	23.1	23.3	21.0	21.9
26	24.2	21.8	22.9	29.5	24.8	26.7	23.6	20.5	21.8	22.9	21.2	22.0
27	25.4	22.3	23.8	29.7	25.2	27.1	23.3	21.4	22.3	23.6	20.5	21.4
28	24.8	23.5	24.1	28.0	25.0	26.4	24.9	22.3	23.2	22.3	18.8	19.9
29	24.6	23.2	23.9	25.9	23.9	24.4	24.8	22.1	23.3	20.9	18.3	19.3
30	26.7	23.6	25.0	25.3	23.4	24.2	25.7	22.8	24.1	---	---	---
31	---	---	---	24.5	23.4	24.0	26.8	23.7	24.6	---	---	---
MONTH	27.5	17.3	22.8	---	---	---	28.4	20.5	24.5	---	---	---

02077280 HYCO LAKE AT DAM NEAR ROXBORO, NC

LOCATION.--Lat 36°30'42", long 79°02'49", Person County, Hydrologic Unit 03010104, at spillway, off dam on Hyco River, 4.5 mi above Ghents Creek and 8 mi northwest of Roxboro.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--October 1986 to current year.

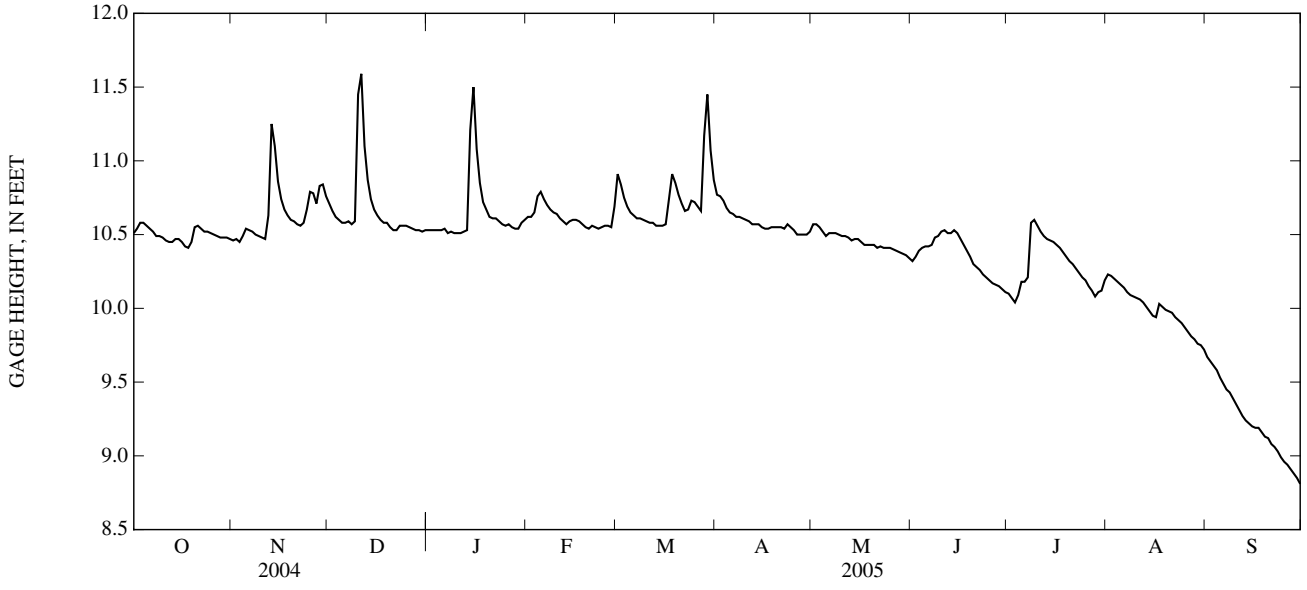
GAGE.--Water-stage recorder. Datum of gage is 399.79 ft above NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.68 ft, Sept. 6, 1996; minimum gage height, 7.54, Jan. 2, 6, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.83 ft, Dec. 11; minimum gage height, 8.79 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.51	10.46	10.71	10.53	10.62	10.91	10.77	10.57	10.32	10.10	10.23	9.67
2	10.54	10.47	10.66	10.53	10.62	10.84	10.76	10.57	10.35	10.07	10.22	9.64
3	10.58	10.45	10.62	10.53	10.65	10.75	10.73	10.55	10.39	10.04	10.20	9.61
4	10.58	10.49	10.60	10.53	10.76	10.69	10.68	10.52	10.41	10.09	10.18	9.58
5	10.56	10.54	10.58	10.53	10.79	10.65	10.65	10.49	10.42	10.18	10.16	9.53
6	10.54	10.53	10.58	10.54	10.74	10.63	10.64	10.51	10.42	10.18	10.14	9.49
7	10.52	10.52	10.59	10.51	10.70	10.61	10.62	10.51	10.43	10.21	10.11	9.45
8	10.49	10.50	10.57	10.52	10.67	10.61	10.62	10.51	10.48	10.58	10.09	9.43
9	10.49	10.49	10.59	10.51	10.65	10.60	10.61	10.50	10.49	10.60	10.08	9.39
10	10.48	10.48	11.45	10.51	10.64	10.59	10.60	10.49	10.52	10.56	10.07	9.35
11	10.46	10.47	11.59	10.51	10.61	10.58	10.59	10.49	10.53	10.52	10.06	9.31
12	10.45	10.63	11.10	10.52	10.59	10.58	10.57	10.48	10.51	10.49	10.04	9.27
13	10.45	11.25	10.87	10.53	10.57	10.56	10.57	10.46	10.51	10.47	10.01	9.24
14	10.47	11.10	10.74	11.21	10.59	10.56	10.57	10.47	10.53	10.46	9.98	9.22
15	10.47	10.86	10.67	11.50	10.60	10.56	10.55	10.47	10.51	10.45	9.95	9.20
16	10.45	10.74	10.63	11.08	10.60	10.57	10.54	10.45	10.47	10.43	9.94	9.19
17	10.42	10.67	10.60	10.85	10.59	10.74	10.54	10.43	10.43	10.41	10.03	9.19
18	10.41	10.63	10.58	10.72	10.57	10.91	10.55	10.43	10.39	10.38	10.01	9.16
19	10.45	10.60	10.58	10.67	10.55	10.85	10.55	10.43	10.35	10.35	9.99	9.13
20	10.55	10.59	10.55	10.62	10.54	10.77	10.55	10.43	10.30	10.32	9.98	9.12
21	10.56	10.57	10.53	10.61	10.56	10.71	10.55	10.41	10.28	10.30	9.97	9.08
22	10.54	10.56	10.53	10.61	10.55	10.66	10.54	10.42	10.26	10.27	9.94	9.06
23	10.52	10.58	10.56	10.59	10.54	10.67	10.57	10.41	10.23	10.24	9.92	9.03
24	10.52	10.67	10.56	10.57	10.55	10.73	10.55	10.41	10.21	10.21	9.90	8.99
25	10.51	10.79	10.56	10.56	10.56	10.72	10.53	10.41	10.19	10.19	9.87	8.96
26	10.50	10.78	10.55	10.57	10.56	10.69	10.50	10.40	10.17	10.15	9.84	8.94
27	10.49	10.71	10.54	10.55	10.55	10.66	10.50	10.39	10.16	10.12	9.81	8.91
28	10.48	10.83	10.53	10.54	10.69	11.17	10.50	10.38	10.15	10.08	9.79	8.88
29	10.48	10.84	10.53	10.54	---	11.45	10.50	10.37	10.13	10.11	9.76	8.85
30	10.48	10.76	10.52	10.58	---	11.07	10.52	10.36	10.11	10.12	9.75	8.81
31	10.47	---	10.53	10.60	---	10.87	---	10.34	---	10.19	9.72	---
MEAN	10.50	10.65	10.67	10.64	10.61	10.74	10.58	10.45	10.36	10.29	9.99	9.22
MAX	10.58	11.25	11.59	11.50	10.79	11.45	10.77	10.57	10.53	10.60	10.23	9.67
MIN	10.41	10.45	10.52	10.51	10.54	10.56	10.50	10.34	10.11	10.04	9.72	8.81



0207730290 AFTERBAY RESERVIOR AT DAM NEAR McGEHEES MILL, NC

LOCATION.--Lat 36°31'21", long 78°59'51", Person County, Hydrologic Unit 03010104, on Afterbay Reservoir dam on Hyco River, 1.2 mi upstream from Ghent Creek, and 1.8 mi northeast of McGehees Mill.

DRAINAGE AREA.--202 mi^2.

PERIOD OF RECORD.--January 1996 to current year.

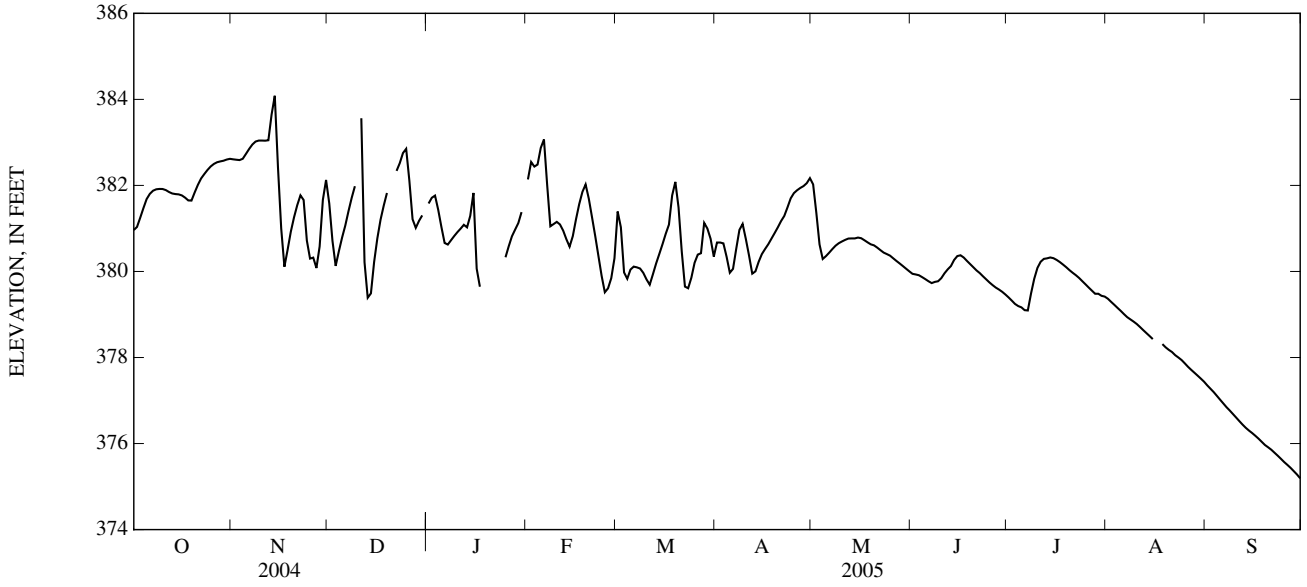
GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 391.11 ft, Sept. 7, 1996; minimum elevation not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 384.34 ft, Nov. 14; minimum elevation, 375.15, Sept. 30.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380.96	382.61	381.58	381.58	382.14	381.39	380.67	382.02	379.95	379.40	379.37	377.35
2	381.03	382.60	380.71	381.71	382.54	381.03	380.67	381.36	379.93	379.32	379.29	377.27
3	381.25	382.59	380.13	381.76	382.44	379.98	380.65	380.63	379.91	379.25	379.22	377.20
4	381.47	382.62	380.47	381.43	382.48	379.83	380.34	380.29	379.87	379.20	379.15	377.11
5	381.68	382.73	380.79	381.03	382.87	380.04	379.97	380.36	379.82	379.17	379.08	377.02
6	381.80	382.85	381.07	380.66	383.07	380.11	380.06	380.44	379.77	379.10	379.01	376.93
7	381.88	382.95	381.40	380.63	382.01	380.10	380.53	380.52	379.73	379.09	378.94	376.85
8	381.91	383.02	381.71	380.73	381.05	380.07	380.97	380.60	379.76	379.49	378.89	376.77
9	381.92	383.04	381.98	380.82	381.10	379.97	381.10	380.66	379.77	379.83	378.84	376.69
10	381.92	383.04	---	380.91	381.15	379.82	380.75	380.70	379.84	380.08	378.78	376.61
11	381.89	383.04	383.56	381.00	381.09	379.69	380.37	380.73	379.96	380.23	378.71	376.52
12	381.85	383.05	380.21	381.08	380.95	379.93	379.95	380.76	380.05	380.29	378.64	376.44
13	381.81	383.65	379.39	381.03	380.75	380.19	380.00	380.77	380.13	380.30	378.57	376.37
14	381.80	384.08	379.49	381.29	380.58	380.41	380.22	380.77	380.27	380.33	378.50	376.30
15	381.79	382.42	380.22	381.82	380.82	380.63	380.40	380.79	380.36	380.31	378.43	376.24
16	381.77	381.00	380.77	380.07	381.21	380.87	380.52	380.77	380.38	380.27	---	376.18
17	381.72	380.11	381.20	379.65	381.57	381.09	380.63	380.73	380.32	380.22	---	376.11
18	381.65	380.50	381.53	---	381.85	381.77	380.76	380.68	380.25	380.16	378.31	376.04
19	381.65	380.92	381.82	---	382.02	382.08	380.89	380.63	380.17	380.10	378.24	375.97
20	381.84	381.26	---	---	381.69	381.49	381.03	380.61	380.10	380.03	378.18	375.91
21	382.01	381.54	---	---	381.26	380.47	381.17	380.55	380.02	379.97	378.13	375.85
22	382.16	381.77	382.34	---	380.82	379.65	381.29	380.50	379.96	379.91	378.05	375.79
23	382.26	381.66	382.52	---	380.36	379.61	381.49	380.44	379.89	379.85	378.00	375.72
24	382.36	380.72	382.75	---	379.90	379.86	381.70	380.40	379.82	379.77	377.94	375.64
25	382.44	380.30	382.85	380.33	379.52	380.20	381.82	380.37	379.75	379.70	377.86	375.57
26	382.50	380.32	382.11	380.58	379.61	380.39	381.89	380.31	379.68	379.63	377.78	375.50
27	382.54	380.08	381.21	380.82	379.84	380.42	381.94	380.24	379.63	379.55	377.71	375.44
28	382.56	380.58	381.01	380.97	380.31	381.13	381.98	380.19	379.58	379.48	377.65	375.36
29	382.57	381.66	381.18	381.13	---	381.00	382.05	380.13	379.53	379.48	377.58	375.28
30	382.60	382.13	381.30	381.38	---	380.76	382.17	380.06	379.46	379.43	377.51	375.19
31	382.62	---	---	---	---	380.35	---	380.00	---	379.42	377.44	---
MEAN	381.94	381.96	381.31	380.97	381.25	380.46	380.93	380.58	379.92	379.75	378.41	376.24
MAX	382.62	384.08	383.56	381.82	383.07	382.08	382.17	382.02	380.38	380.33	379.37	377.35
MIN	380.96	380.08	379.39	379.65	379.52	379.61	379.95	380.00	379.46	379.09	377.44	375.19



02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'21", long 78°59'51", Person County, Hydrologic Unit 03010104, on left bank 200 ft downstream from Afterbay Reservoir dam of Carolina Power and Light Company, 1.2 mi upstream from Ghent Creek, and 1.8 mi east-northeast of McGehees Mill.

DRAINAGE AREA.--202 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 342.98 ft above NGVD of 1929 (levels by Carolina Power and Light Company). From August 1964 to September 1973, records published as "Hyco River at McGehees Mill, NC" at site 2.8 mi upstream, at datum 349.78 ft. Water-temperature recorder operated at site 600 ft downstream on right bank from June 1974 to Sept. 1995. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow regulated by Roxboro Steam-Electric Generating Plant Afterbay Reservoir. Minimum discharge for water current year also occurred Nov. 18, Dec. 3, 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	19	313	18	23	379	218	171	19	19	21	29
2	24	20	308	19	61	556	219	188	19	19	21	24
3	21	20	87	75	183	438	219	185	18	21	20	24
4	22	20	19	120	182	119	215	20	18	21	20	24
5	20	20	19	120	183	120	162	19	19	20	21	25
6	20	22	18	98	299	118	34	19	19	20	21	25
7	20	21	17	19	510	117	20	19	19	21	22	24
8	19	21	18	19	204	119	20	20	19	24	22	23
9	20	22	19	20	122	119	128	20	19	21	22	21
10	19	22	1,600	19	120	118	151	20	19	22	22	21
11	21	21	2,960	19	121	79	149	19	19	21	22	21
12	21	291	1,850	19	120	24	109	19	19	21	22	21
13	21	1,090	556	125	119	23	22	19	19	20	24	20
14	20	1,140	86	1,250	95	24	21	19	19	21	22	20
15	20	1,000	20	2,150	22	24	22	19	19	20	21	20
16	20	472	19	1,380	22	25	22	19	20	20	e21	20
17	19	199	19	361	23	182	22	19	20	20	e21	20
18	19	18	19	173	24	280	22	19	21	22	21	20
19	18	18	20	173	67	434	21	18	21	21	21	21
20	20	18	20	127	149	438	21	19	20	21	20	22
21	19	18	19	67	146	424	21	19	21	22	20	20
22	19	18	19	70	145	185	21	19	20	20	20	21
23	19	217	18	70	144	140	21	19	20	21	20	20
24	19	309	19	69	145	139	22	19	20	22	20	20
25	19	280	110	34	107	142	21	19	20	20	21	20
26	20	248	218	22	24	142	21	19	20	20	21	19
27	22	203	168	22	24	142	21	19	19	21	20	23
28	21	120	21	23	25	1,050	21	19	19	21	20	22
29	21	122	19	23	---	2,070	20	19	20	21	23	20
30	20	265	19	23	---	1,060	20	19	19	21	26	21
31	19	---	19	23	---	339	---	19	---	21	28	---
TOTAL	623	6,274	8,636	6,750	3,409	9,569	2,026	1,079	583	645	666	651
MEAN	20.1	209	279	218	122	309	67.5	34.8	19.4	20.8	21.5	21.7
MAX	24	1,140	2,960	2,150	510	2,070	219	188	21	24	28	29
MIN	18	18	17	18	22	23	20	18	18	19	20	19

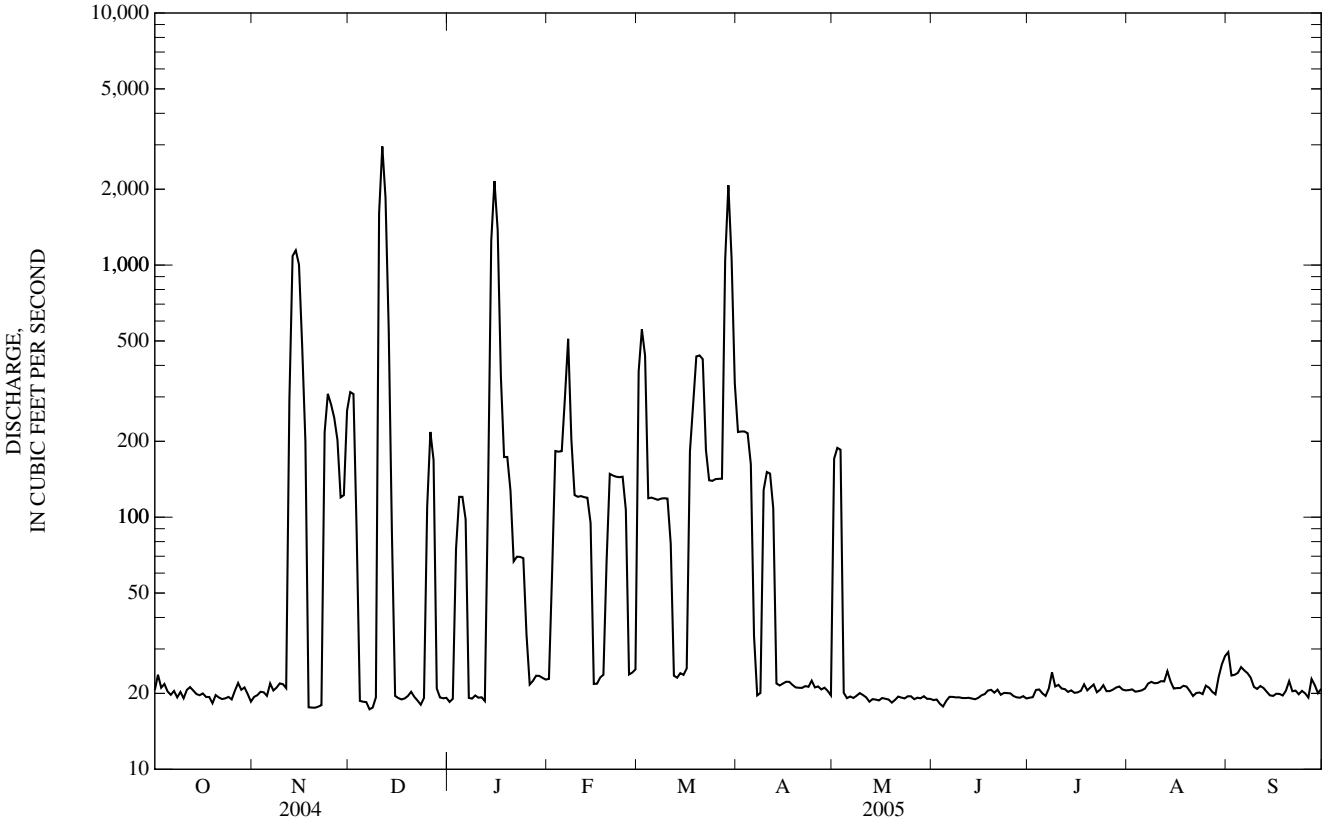
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	55.4	69.3	126	331	305	405	242	122	85.8	90.4	68.9	120
MAX	351	398	432	1,201	926	1,165	712	864	528	1,058	294	675
(WY)	(1996)	(2003)	(2003)	(1978)	(1979)	(1993)	(2003)	(1978)	(2003)	(1975)	(1982)	(1974)
MIN	3.47	2.40	2.19	2.76	4.38	6.02	5.21	4.22	3.96	6.14	1.08	1.55
(WY)	(1999)	(1998)	(1998)	(2001)	(2002)	(2002)	(2002)	(2002)	(1974)	(2002)	(1999)	(1977)

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	37,270		40,911			
ANNUAL MEAN	102		112		168	
HIGHEST ANNUAL MEAN					394	2003
LOWEST ANNUAL MEAN					5.11	2002
HIGHEST DAILY MEAN	2,960	Dec 11	2,960	Dec 11	9,280	Jul 14, 1975
LOWEST DAILY MEAN	14	Aug 12	17	Dec 7	0.27	Nov 2, 1997
ANNUAL SEVEN-DAY MINIMUM	15	Aug 9	19	May 29	0.45	Aug 3, 1999
MAXIMUM PEAK FLOW			3,040	Dec 11	11,300	Jul 14, 1975
MAXIMUM PEAK STAGE			15.17	Dec 11	24.40	Jul 14, 1975
INSTANTANEOUS LOW FLOW			16*	Nov 17	0.00	Jun 26, 1980
10 PERCENT EXCEEDS	217		217		378	
50 PERCENT EXCEEDS	22		21		31	
90 PERCENT EXCEEDS	16		19		9.4	

* See REMARKS.
e Estimated.



02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1974 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1981 to September 1983.
WATER TEMPERATURE: June 1974 to current year.

INSTRUMENTATION.--Temperature recorder since June 1974. Water-quality monitor from Oct. 1981 to Sept. 1983.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum, 197 microsiemens, Dec. 6, 1981; minimum, 89 microsiemens, May 16, 1983.
WATER TEMPERATURE: Maximum recorded, 33.5°C, July 20, 21, 22, 1977; minimum recorded, 1.0°C, Jan. 6, 2002.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 26.4°C, Aug. 5; minimum recorded, 8.1°C, Dec. 27, 28.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.4	19.5	19.9	19.5	19.0	19.3	14.9	14.6	14.8	11.2	9.8	10.4
2	21.2	20.1	20.6	19.5	18.9	19.3	14.6	14.3	14.5	10.8	9.9	10.3
3	21.2	20.3	20.8	19.7	19.0	19.4	15.2	13.3	14.2	10.2	9.2	9.6
4	22.0	21.0	21.5	19.0	18.3	18.5	14.9	12.9	13.6	10.5	9.5	10.2
5	22.3	21.1	21.8	18.3	17.9	18.1	14.8	12.8	13.6	10.7	10.2	10.4
6	21.8	21.3	21.6	17.9	17.5	17.7	14.2	13.6	14.0	12.2	10.5	11.3
7	22.0	21.1	21.6	18.0	17.3	17.7	15.4	14.0	14.8	11.9	11.1	11.5
8	22.0	21.0	21.4	17.9	17.4	17.7	15.6	13.6	14.5	11.8	10.7	11.3
9	21.6	20.9	21.3	17.4	16.9	17.1	13.7	10.9	12.7	11.4	10.1	10.7
10	22.1	21.2	21.6	17.1	16.4	16.7	13.7	10.5	13.1	11.8	9.9	10.8
11	21.7	21.0	21.4	17.1	16.3	16.7	15.2	13.6	14.5	11.6	10.3	10.9
12	21.5	20.7	21.1	17.1	16.4	16.9	15.6	15.2	15.4	12.2	10.5	11.4
13	21.3	21.0	21.1	17.0	16.3	16.8	15.4	14.4	15.0	12.1	11.2	11.6
14	21.6	20.9	21.2	16.3	15.9	16.0	14.6	13.3	14.0	13.0	11.6	12.1
15	21.4	20.5	21.0	17.2	16.0	16.6	16.6	12.6	13.4	12.9	11.6	12.0
16	20.6	20.0	20.3	16.9	16.6	16.7	13.8	12.0	12.8	13.5	12.9	13.3
17	20.4	19.6	19.9	17.7	15.7	16.5	19.9	12.4	13.5	13.3	12.1	12.6
18	20.0	19.4	19.7	17.2	15.8	16.5	19.5	12.2	14.8	12.1	11.2	11.5
19	20.6	19.9	20.2	17.4	16.2	16.7	13.3	10.9	12.1	11.2	10.4	10.8
20	19.9	19.6	19.7	17.5	16.2	16.7	11.2	9.9	10.4	10.4	9.9	10.2
21	19.6	19.5	19.5	17.6	16.2	16.8	16.7	10.1	12.2	---	---	---
22	19.5	19.2	19.4	16.7	16.0	16.4	15.9	10.4	12.5	---	---	---
23	19.2	18.9	19.1	16.7	16.4	16.6	12.6	11.1	11.7	---	---	---
24	19.1	18.9	19.0	16.8	16.5	16.6	11.2	10.3	10.7	---	---	---
25	19.3	18.9	19.1	16.9	16.1	16.6	10.8	8.9	9.8	---	---	---
26	19.2	18.6	18.9	16.1	15.7	15.9	8.9	8.5	8.7	---	---	---
27	18.8	18.5	18.7	15.7	11.8	15.1	8.7	8.1	8.3	---	---	---
28	18.9	18.7	18.8	15.4	11.8	14.8	12.8	8.1	9.7	---	---	---
29	19.0	18.8	18.9	14.9	14.6	14.7	13.3	8.8	10.9	---	---	---
30	19.6	18.9	19.3	14.8	14.4	14.6	10.4	9.3	9.9	---	---	---
31	19.6	19.1	19.4	---	---	---	10.6	9.3	9.9	---	---	---
MONTH	22.3	18.5	20.3	19.7	11.8	16.9	19.9	8.1	12.6	---	---	---

02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	16.0	15.5	15.8	19.1	16.6	18.1
2	---	---	---	---	---	---	16.8	15.4	16.1	18.5	17.6	18.0
3	---	---	---	---	---	---	16.1	15.5	15.8	18.3	17.1	17.9
4	---	---	---	---	---	---	16.4	15.5	15.9	17.4	15.6	16.6
5	---	---	---	---	---	---	16.2	15.6	15.9	16.8	15.6	16.1
6	---	---	---	---	---	---	17.1	14.7	15.7	16.1	15.0	15.6
7	---	---	---	---	---	---	16.9	15.4	15.9	18.0	14.9	16.3
8	---	---	---	---	---	---	16.5	15.2	15.7	18.3	15.5	16.6
9	---	---	---	---	---	---	16.4	15.3	16.0	18.8	15.5	16.8
10	---	---	---	---	---	---	17.1	16.3	16.7	19.1	15.7	17.1
11	---	---	---	---	---	---	17.9	16.8	17.2	18.8	16.1	17.3
12	---	---	---	---	---	---	16.8	15.0	16.2	19.3	16.0	17.3
13	---	---	---	---	---	---	15.3	14.6	14.9	17.1	16.3	16.6
14	---	---	---	---	---	---	16.7	14.4	15.3	18.9	16.3	17.5
15	---	---	---	---	---	---	16.9	14.5	15.3	18.4	17.1	17.7
16	---	---	---	---	---	---	16.7	14.3	15.2	19.1	16.1	17.1
17	---	---	---	---	---	---	17.3	13.8	15.4	18.9	16.0	17.1
18	---	---	---	---	---	---	17.4	14.4	15.7	18.7	16.0	17.3
19	---	---	---	11.2	9.9	10.5	18.2	14.9	16.3	18.9	16.8	17.6
20	---	---	---	12.9	10.8	11.9	18.1	15.5	16.5	19.6	16.7	17.9
21	---	---	---	12.7	11.9	12.2	18.6	15.3	16.6	18.9	15.9	17.1
22	---	---	---	12.3	11.2	11.5	17.0	15.6	16.2	19.7	15.8	17.7
23	---	---	---	12.3	11.2	11.8	17.9	15.7	16.4	19.7	16.8	18.1
24	---	---	---	13.6	12.0	12.7	16.6	15.4	15.9	18.4	17.1	17.8
25	---	---	---	12.7	12.3	12.5	18.4	15.5	16.5	19.0	16.7	17.3
26	---	---	---	12.7	12.4	12.5	17.0	15.5	16.3	20.4	16.9	18.4
27	---	---	---	12.8	12.4	12.6	17.4	15.6	16.6	19.8	17.0	18.4
28	---	---	---	13.9	11.9	13.3	18.5	14.9	16.5	19.0	17.5	18.2
29	---	---	---	15.3	13.8	14.6	17.0	16.1	16.4	19.1	17.0	18.2
30	---	---	---	15.9	15.0	15.3	17.1	16.0	16.6	19.9	17.5	18.4
31	---	---	---	16.1	15.3	15.6	---	---	---	20.0	17.5	18.5
MONTH	---	---	---	---	---	---	18.6	13.8	16.1	20.4	14.9	17.4
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.6	17.4	18.1	24.6	21.9	23.1	25.8	24.8	25.2	26.1	25.1	25.5
2	18.0	17.4	17.7	24.1	22.0	22.8	26.1	25.0	25.5	26.0	24.6	25.2
3	18.9	17.6	18.3	23.8	21.5	22.5	26.3	25.2	25.7	25.9	24.3	25.0
4	20.0	18.3	19.0	23.8	22.0	22.8	26.3	25.2	25.7	25.9	24.9	25.2
5	21.0	18.3	19.4	25.0	22.3	23.5	26.4	25.2	25.8	25.8	24.8	25.1
6	21.3	18.4	19.6	25.4	22.7	23.9	26.2	25.3	25.6	25.8	24.5	25.0
7	21.2	18.9	19.7	24.2	22.7	23.5	25.9	25.1	25.4	25.7	24.3	24.8
8	21.1	18.9	19.8	23.9	23.0	23.4	25.7	25.0	25.3	25.8	24.2	24.8
9	21.3	19.0	19.9	23.7	22.4	23.1	25.4	25.0	25.2	25.7	24.3	24.8
10	21.4	19.2	20.0	23.8	22.6	23.2	25.6	24.9	25.2	25.5	24.3	24.7
11	21.2	19.4	20.0	23.6	23.0	23.3	25.9	24.9	25.3	25.5	24.2	24.6
12	20.9	19.1	20.0	24.2	23.1	23.6	25.9	25.0	25.4	25.3	23.9	24.4
13	21.3	19.8	20.4	24.1	23.4	23.7	25.8	25.0	25.4	25.2	24.1	24.6
14	22.2	19.5	20.7	23.6	23.2	23.4	25.9	24.9	25.4	25.1	24.6	24.8
15	22.1	19.6	20.7	23.7	23.1	23.4	25.7	24.8	25.3	25.8	24.6	25.1
16	21.9	18.8	20.5	24.4	23.1	23.7	---	---	---	25.9	24.6	25.2
17	22.0	18.7	20.1	24.7	23.4	24.0	---	---	---	26.2	24.9	25.5
18	21.6	18.4	20.0	24.8	23.5	24.2	24.9	24.5	24.6	26.1	25.0	25.4
19	21.6	18.9	20.1	25.3	23.7	24.4	25.2	24.3	24.7	26.0	24.9	25.3
20	22.1	19.2	20.4	25.2	23.9	24.5	25.6	24.3	24.9	26.2	25.1	25.6
21	22.7	18.9	20.8	25.2	23.8	24.4	26.0	24.7	25.3	26.2	25.3	25.7
22	22.8	19.9	21.4	25.4	24.1	24.7	25.6	24.6	25.1	26.0	25.0	25.4
23	23.1	19.9	21.4	25.3	24.1	24.7	25.0	24.4	24.6	26.2	25.0	25.6
24	23.4	20.1	21.6	25.0	23.9	24.5	25.0	24.3	24.6	25.6	25.3	25.4
25	23.5	20.2	21.7	25.8	24.1	24.9	25.3	24.4	24.8	25.5	25.0	25.2
26	22.9	20.9	21.9	25.9	24.5	25.2	25.0	24.0	24.5	25.6	24.9	25.2
27	23.2	21.3	22.3	26.3	24.8	25.5	24.8	24.3	24.5	26.0	24.7	25.2
28	23.1	21.7	22.4	25.8	25.1	25.5	25.4	24.5	24.8	25.6	24.3	24.8
29	23.1	21.6	22.3	25.4	24.9	25.1	25.3	24.5	24.9	24.9	24.1	24.5
30	24.5	21.7	22.9	25.4	24.8	25.1	25.7	24.7	25.2	24.4	23.7	23.9
31	---	---	---	25.3	24.8	25.1	26.0	25.3	25.6	---	---	---
MONTH	24.5	17.4	20.4	26.3	21.5	24.0	---	---	---	26.2	23.7	25.1

02077670 MAYO CREEK NEAR BETHEL HILL, NC

LOCATION.--Lat 36°32'27", long 78°52'19" Person County, Hydrologic Unit 03010104, on right bank 0.1 mi upstream from Virginia state line, 0.3 mi downstream of Mayo Steam Electric Generating Plant dam, 2.9 mi northeast of Bethel Hill, and 4.8 mi downstream of Spoonwater Creek.

DRAINAGE AREA.--53.5 mi^2.

PERIOD OF RECORD.--August 1977 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-02-1A: 2001.

GAGE.--Water-stage recorder. Datum of gage is 338.84 ft above NGVD of 1929 (levels by Carolina Power & Light Company). Satellite telemetry at station.

REMARKS.--Records poor. Flow regulated by Mayo Steam Electric Generating Plant. Minimum discharge for period of record, no flow, occurred periodically in 1977, 1980, 1981, and 1982 as a result of regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 4, 1974, reached a stage of 11.11 ft, from floodmarks; discharge, 4,300 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	e6.2	74	29	49	69	113	27	3.9	e4.9	e11	e5.3
2	13	e4.7	66	27	46	68	115	27	4.6	e3.8	e7.9	e5.2
3	11	e3.2	60	27	51	64	113	25	8.9	e3.2	e5.5	e6.3
4	10	e26	56	26	60	61	102	22	12	e2.9	e3.5	e6.5
5	7.9	e29	50	25	61	59	90	19	10	e2.7	e2.4	e5.4
6	6.0	e22	47	25	60	57	82	19	9.6	e2.5	e1.5	e4.8
7	4.9	e16	50	23	58	55	74	19	10	e2.9	e1.1	e4.4
8	4.2	e12	45	23	56	56	70	18	17	e6.5	e1.2	e4.3
9	3.6	e8.7	44	23	54	55	64	17	15	e6.8	e5.0	e4.2
10	3.4	e6.6	328	22	54	51	61	16	14	e5.5	e6.8	e4.3
11	e3.1	e5.5	393	21	49	48	57	15	12	e4.0	e6.0	e4.4
12	e2.2	17	313	21	45	47	52	13	9.6	e2.9	e4.8	e4.5
13	e31	78	246	24	42	43	50	12	8.3	e2.5	e3.7	e4.3
14	e33	86	195	172	43	42	47	12	7.6	e2.2	e5.4	e4.3
15	e26	80	156	221	43	39	41	10	6.1	e2.0	e7.6	e4.3
16	e19	74	130	191	42	41	36	8.3	4.3	e1.9	e5.2	e4.5
17	e14	68	110	161	39	67	34	6.8	e3.3	e1.7	e3.7	e4.4
18	e11	64	95	134	36	88	32	6.3	e2.6	e1.5	e6.4	e4.3
19	e8.3	60	84	119	32	90	30	5.6	e2.1	e1.3	e6.7	e3.9
20	e21	57	74	101	30	86	28	5.7	e1.7	e1.7	e5.3	e3.6
21	e23	54	67	91	31	79	26	4.0	e1.6	e1.2	e4.6	e3.0
22	e17	50	61	82	29	72	25	3.8	e1.7	e1.9	e4.3	e4.1
23	e11	52	60	75	28	72	30	3.5	e2.8	e2.4	e4.0	e3.7
24	e9.3	60	58	69	29	78	28	3.9	e3.1	e2.0	e3.6	e3.3
25	e7.8	73	54	64	30	75	26	4.6	e3.5	e1.8	e3.7	e3.0
26	e7.2	71	48	58	29	70	24	4.3	e3.3	e1.5	e3.8	e2.3
27	e6.7	67	43	54	28	66	21	3.8	e3.3	e1.5	e4.0	e1.9
28	e18	86	39	48	49	115	20	3.5	e3.7	e1.4	e4.1	e1.6
29	e11	86	35	44	---	147	21	3.3	e4.3	e2.3	e3.9	e1.2
30	e8.8	80	32	49	---	138	23	3.1	e5.3	e4.7	e4.3	e1.1
31	e7.8	---	31	51	---	126	---	3.1	---	e11	e4.8	---
TOTAL	375.2	1,402.9	3,144	2,100	1,203	2,224	1,535	344.6	195.2	95.1	145.8	118.4
MEAN	12.1	46.8	101	67.7	43.0	71.7	51.2	11.1	6.51	3.07	4.70	3.95
MAX	33	86	393	221	61	147	115	27	17	11	11	6.5
MIN	2.2	3.2	31	21	28	39	20	3.1	1.6	1.2	1.1	1.1

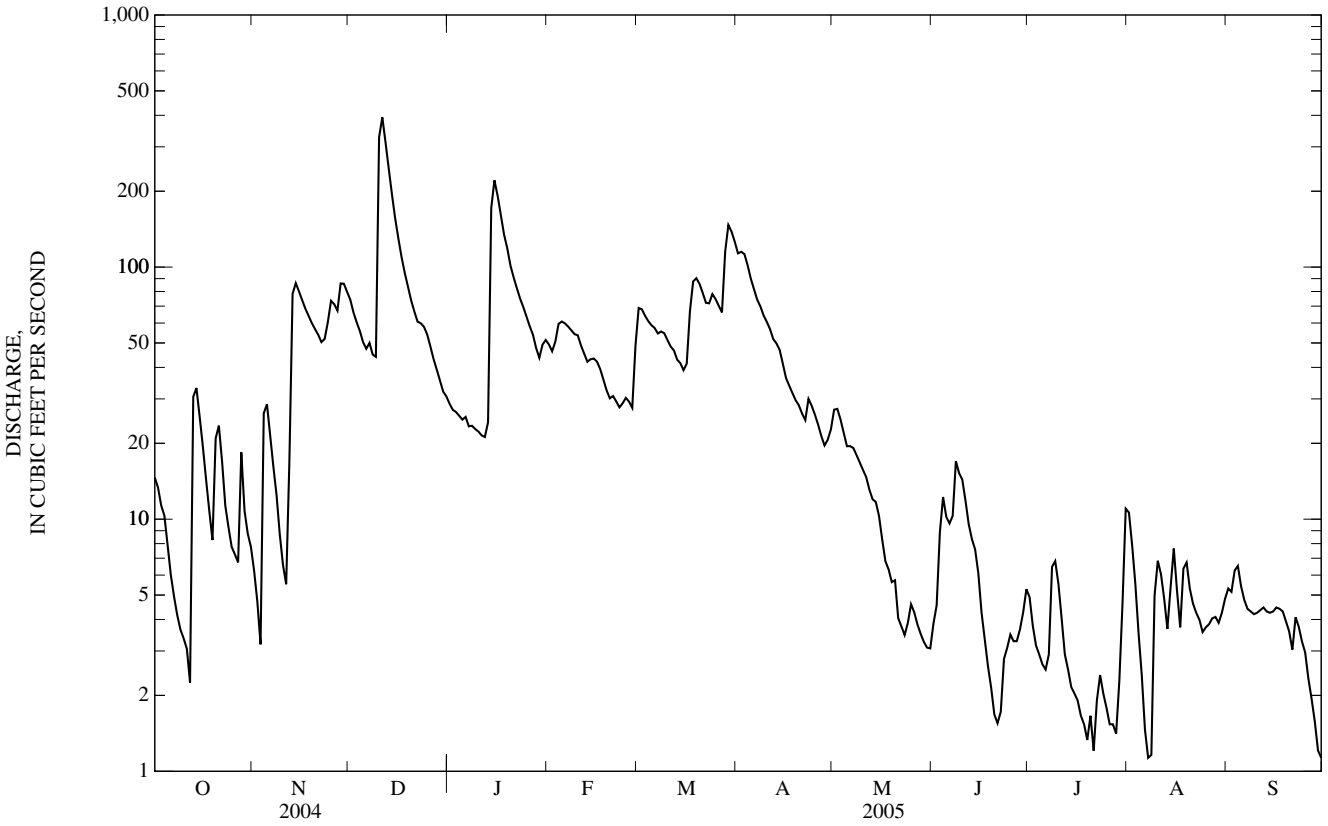
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	12.1	17.4	27.8	60.4	67.9	97.7	75.3	40.8	24.2	18.2	14.3	28.6
MAX	62.2	76.0	101	254	301	260	267	210	162	118	68.4	350
(WY)	(1990)	(1980)	(2005)	(1978)	(1998)	(1998)	(2003)	(1978)	(2003)	(1995)	(2003)	(1996)
MIN	0.01	0.01	0.02	0.00	0.28	0.14	0.20	0.12	0.07	0.24	0.04	0.00
(WY)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1981)	(1980)

02077670 MAYO CREEK NEAR BETHEL HILL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	14,430.7		12,883.2			
ANNUAL MEAN	39.4		35.3		40.3	
HIGHEST ANNUAL MEAN					111	2003
LOWEST ANNUAL MEAN					0.11	1981
HIGHEST DAILY MEAN	600	Aug 31	393	Dec 11	2,260	Sep 7, 1996
LOWEST DAILY MEAN	2.2	Oct 12	1.1	Aug 7	0.00	Jul 31, 1977
ANNUAL SEVEN-DAY MINIMUM	2.7	Jul 19	1.6	Jul 16	0.00	Jul 31, 1977
MAXIMUM PEAK FLOW			439	Dec 10	3,950	Apr 26, 1978
MAXIMUM PEAK STAGE			5.77	Dec 10	10.83	Apr 26, 1978
INSTANTANEOUS LOW FLOW					0.00*	Jul 31, 1977
10 PERCENT EXCEEDS	71		80		102	
50 PERCENT EXCEEDS	25		19		9.1	
90 PERCENT EXCEEDS	3.1		2.9		1.7	

* See REMARKS.
e Estimated.



02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC

LOCATION.--Lat 36°27'36", long 77°38'01", Halifax County, Hydrologic Unit 03010107, on right bank 1.2 mi downstream of bridge on State Highway 48 at Roanoke Rapids, 2.5 mi upstream from Chockoyotte Creek, 2.8 mi downstream of Roanoke Rapids dam, and 133.6 mi upstream from mouth in Albemarle Sound.

DRAINAGE AREA.--8,384 mi^2.

PERIOD OF RECORD.--December 1911 to current year. Prior to January 1933, published as "Roanoke River at Old Gaston". Records published for both sites February 1930 to December 1932. Gage-height records collected at site of auxiliary gage since November 1890 are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 712: 1930. WSP 822: 1936. WSP 1032: 1912, 1928(M), 1930(M), 1932-33(M). WSP 1433: 1912-23, 1925-28, 1930, 1932-33, 1935, 1937-39. WSP 1904: 1958, 1960. WDR NC-83-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 43.84 ft above NGVD of 1929. Dec. 7, 1911, to Nov. 21, 1921, and Apr. 7 to Dec. 31, 1932, nonrecording gage and Nov. 21, 1921, to Apr. 7, 1932, water-stage recorder, both at site 9 mi upstream at different datum. Aug. 6, 1941, to Mar. 1, 1973, auxiliary water-stage recorder, 3.6 mi downstream of base gage. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated since August 1950 by Philpott Lake on Smith River, usable capacity, 6,325,000,000 ft^3; since September 1950 by John H. Kerr Reservoir, usable capacity, 101,247,000,000 ft^3; since June 1955 by Roanoke Rapids Lake (station 02080100); since September 1962 by Leesville Lake; since October 1962 by Lake Gaston (station 02079964); and since September 1963 by Smith Mountain Lake. Prior to regulation, maximum discharge: 261,000 ft^3/s, Aug. 18, 1940; gage height: 39.0 ft, from floodmarks; minimum discharge: about 250 ft^3/s, Dec. 16, 1955. Minimum discharge for current water year also occurred Sept. 29.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in November 1877, discharge, 212,000 ft^3/s, reached a stage about 2 ft lower at Old Gaston than flood in August 1940 which was 21.5 ft. Flood in August 1940 is the maximum known since at least 1771.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11,300	8,200	14,400	13,300	9,960	6,090	19,000	7,600	6,590	2,790	2,840	2,930
2	11,500	8,160	14,300	12,600	5,330	7,560	18,600	7,610	6,600	2,920	3,000	3,230
3	e12,300	8,340	13,300	15,800	5,000	8,090	18,500	7,620	6,590	3,010	3,890	3,250
4	11,300	7,800	9,960	12,700	7,410	8,140	18,500	7,620	6,580	2,920	3,580	3,500
5	10,700	8,050	9,580	14,000	7,080	7,820	18,500	7,620	6,580	4,410	3,200	3,510
6	10,700	5,800	9,630	15,900	7,550	8,270	18,700	7,670	6,600	4,120	3,120	3,470
7	11,000	6,090	9,450	12,300	8,070	8,240	18,800	7,650	6,600	3,410	3,190	3,480
8	10,900	6,390	9,740	11,300	7,350	8,230	18,800	7,620	6,610	3,220	2,930	3,480
9	11,100	6,630	13,200	11,200	7,510	8,440	14,400	7,570	6,620	2,740	2,900	3,060
10	9,580	6,680	13,000	11,000	7,500	8,220	14,300	7,650	6,600	2,750	3,270	2,590
11	11,000	6,850	13,700	8,280	7,280	8,580	9,890	7,660	6,970	7,740	6,030	2,680
12	10,600	6,840	13,600	5,720	7,350	7,750	9,740	7,650	7,000	6,550	4,930	2,760
13	11,100	5,410	14,000	6,980	7,340	8,090	8,360	7,670	6,980	8,420	5,860	2,690
14	10,900	5,260	15,700	8,880	5,010	8,030	8,090	6,770	6,980	8,680	7,210	2,690
15	11,100	7,250	15,100	8,090	5,630	8,040	8,100	6,620	7,000	8,470	7,620	2,840
16	e12,400	8,320	14,900	8,660	7,040	8,030	8,170	6,770	8,900	7,910	3,850	2,640
17	e12,500	8,470	15,900	8,850	7,090	8,030	8,150	6,740	5,580	7,020	3,520	4,970
18	e12,300	7,870	14,500	9,090	7,070	8,010	8,140	6,670	2,960	7,720	4,490	2,610
19	11,300	8,010	15,700	13,800	7,310	15,100	8,130	6,680	3,000	7,850	3,880	3,580
20	11,300	5,030	15,900	14,200	7,290	15,100	8,180	6,670	6,400	8,220	4,410	4,090
21	11,300	7,980	16,000	17,400	3,940	15,100	8,220	6,620	6,400	8,050	4,180	2,250
22	11,300	6,840	15,800	17,400	4,060	15,200	8,270	6,610	6,430	5,090	4,290	3,570
23	10,800	8,390	16,100	17,500	4,040	8,620	8,300	6,570	7,040	3,160	4,070	4,250
24	11,200	9,210	16,200	17,500	7,480	8,170	8,260	6,560	7,130	3,340	3,440	2,980
25	13,100	8,690	16,100	17,500	5,410	8,160	8,290	6,570	2,980	2,850	3,470	2,920
26	10,800	8,770	16,100	14,600	3,350	8,150	8,120	6,580	3,010	3,470	3,430	7,220
27	11,300	8,610	16,200	14,800	3,720	8,200	8,110	6,560	2,990	6,900	3,760	2,830
28	11,300	8,760	16,200	15,100	5,470	8,130	8,080	6,550	2,990	3,510	3,460	2,830
29	11,400	8,180	15,700	10,900	---	12,900	7,950	6,520	3,090	3,470	3,250	2,810
30	8,910	8,130	13,900	9,830	---	19,600	7,590	6,520	2,980	3,060	3,160	2,820
31	8,030	---	15,500	9,930	---	19,000	---	6,570	---	2,970	2,970	---
TOTAL	344,320	225,010	439,360	385,110	178,640	305,090	344,240	218,360	172,780	156,740	123,200	98,530
MEAN	11,110	7,500	14,170	12,420	6,380	9,842	11,470	7,044	5,759	5,056	3,974	3,284
MAX	13,100	9,210	16,200	17,500	9,960	19,600	19,000	7,670	8,900	8,680	7,620	7,220
MIN	8,030	5,030	9,450	5,720	3,350	6,090	7,590	6,520	2,960	2,740	2,840	2,250
†	-3,465	+3,749	-2,220	-1,891	+1,409	+4,528	-2,292	-1,087	-1,344	+198	-738	-2,197

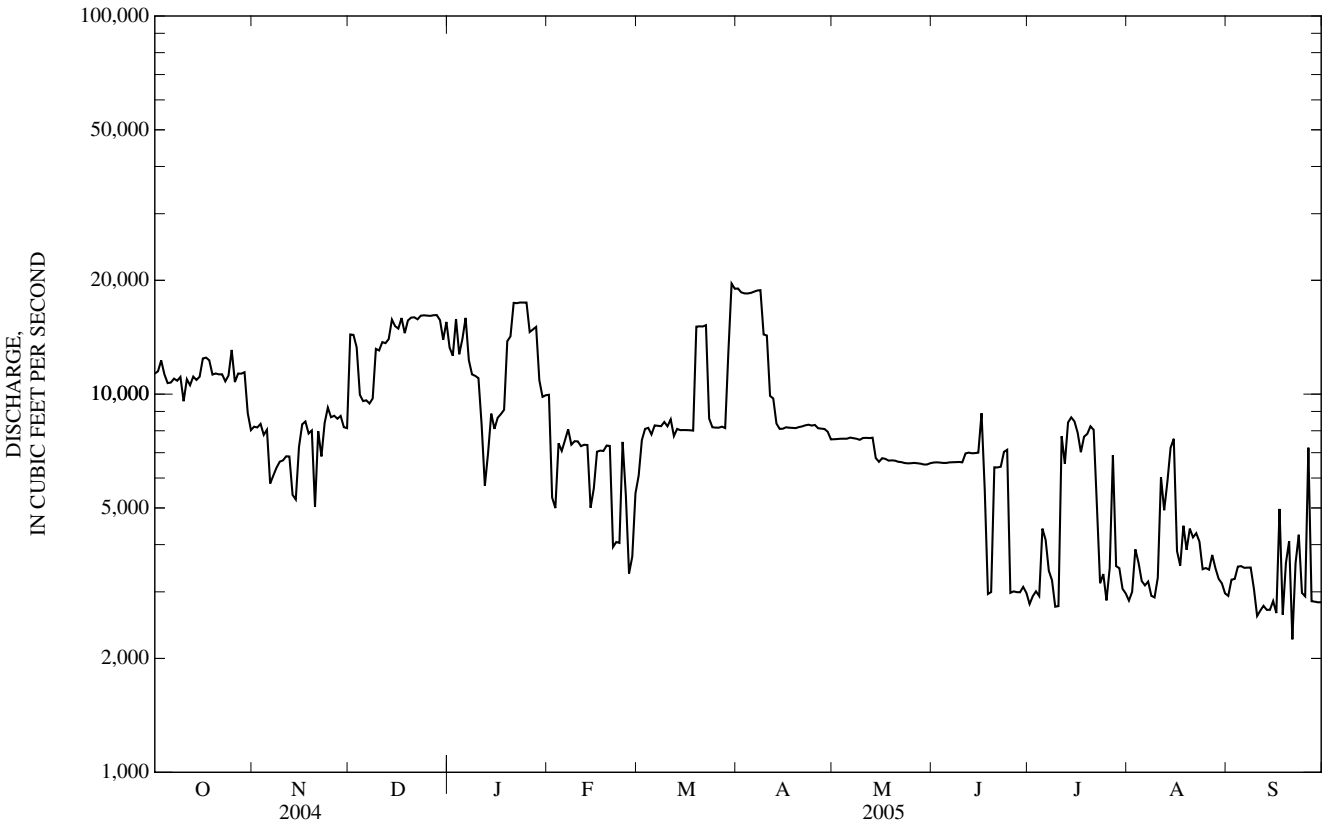
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005,* BY WATER YEAR (WY)

MEAN	5,801	6,296	7,625	9,625	10,370	10,760	11,470	10,280	7,708	6,186	5,382	5,509
MAX	20,360	17,690	18,380	17,850	26,800	27,350	32,660	31,750	23,040	22,870	15,180	25,970
(WY)	(1980)	(1986)	(1973)	(1991)	(1998)	(1998)	(1993)	(1978)	(2003)	(2003)	(2003)	(1996)
MIN	2,031	1,987	2,046	2,037	2,014	1,910	1,951	2,446	2,365	2,581	2,519	2,186
(WY)	(1971)	(1987)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1977)	(1970)	(1993)	(1968)

02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005*	
ANNUAL TOTAL	3,259,120		2,991,380			
ANNUAL MEAN	8,905		8,196	‡7736	7,953	(UNADJUSTED)
HIGHEST ANNUAL MEAN					15,330	2003
LOWEST ANNUAL MEAN					2,361	2002
HIGHEST DAILY MEAN	20,500	Jan 1	19,600	Mar 30	36,000	Sep 11, 1996
LOWEST DAILY MEAN	2,070	Mar 30	2,250	Sep 21	818	Nov 15, 1970
ANNUAL SEVEN-DAY MINIMUM	2,260	Mar 25	2,700	Sep 10	989	Nov 5, 1986
MAXIMUM PEAK FLOW			19,800	Dec 18	37,700	Apr 16, 1993
MAXIMUM PEAK STAGE			8.75	Dec 18	11.87	Apr 16, 1993
INSTANTANEOUS LOW FLOW			1,720	Sep 28	760	Nov 23, 1970
10 PERCENT EXCEEDS	15,200		15,100		18,900	
50 PERCENT EXCEEDS	8,180		7,650		6,040	
90 PERCENT EXCEEDS	3,820		3,040		2,020	

† Change in contents, equivalent in cubic feet per second, in Leesville and Smith Mountain Lakes, provided by Appalachian Power Co.; Philpott and Kerr Reservoirs, provided by U.S. Army Corps of Engineers; and Lake Gaston and Roanoke Rapids Lake, provided by North Carolina Power Company.
* Regulated period only (1964-2005). See REMARKS.
‡ Adjusted for change in contents.
e Estimated.



0208062765 ROANOKE RIVER AT HALIFAX, NC

LOCATION.--Lat 36°19'52", long 77°34'49", Halifax County, Hydrologic Unit 03010107, approximately 0.5 mi east of Halifax on private dirt road and 119 river mi from mouth.

DRAINAGE AREA.--8,450 mi^2.

ELEVATION RECORDS

PERIOD OF RECORD.--November 1996 to current year. Records from November 1996 to September 1997 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

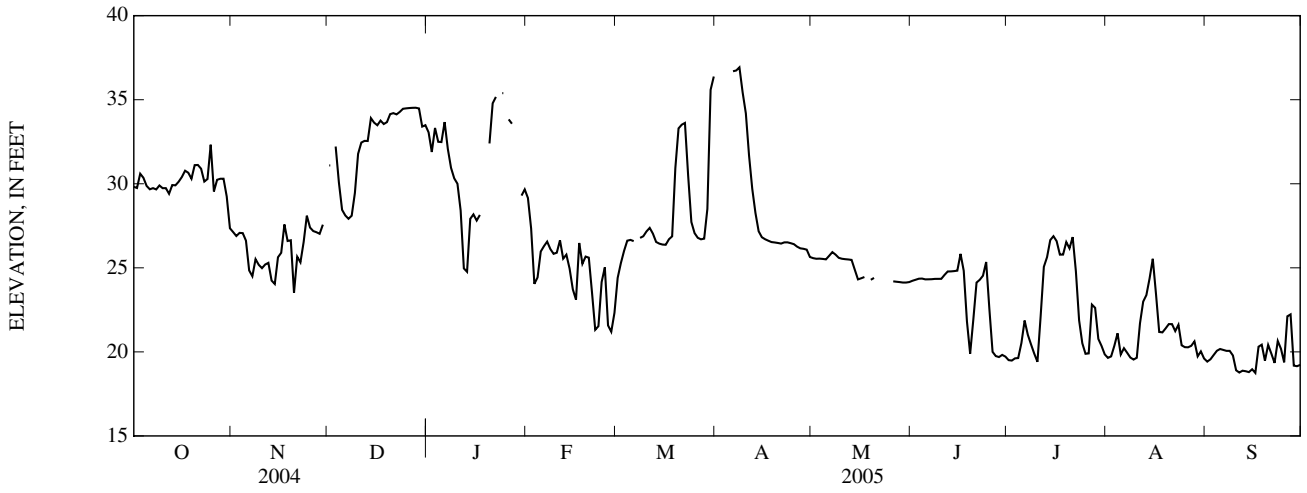
GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 47.24 ft, Mar. 31, 1998; minimum elevation, 16.43 ft, Dec. 8, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 37.12 ft, Apr. 8; minimum elevation, 17.80 ft, Sept. 29.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29.82	27.13	31.09	33.06	29.15	24.40	---	25.57	24.23	19.51	19.64	19.42
2	29.75	26.89	---	31.89	27.34	25.28	---	25.54	24.29	19.48	19.73	19.56
3	30.60	27.08	32.22	33.32	24.05	26.01	---	25.55	24.35	19.61	20.37	19.82
4	30.36	27.06	30.08	32.50	24.43	26.62	---	25.53	24.36	19.63	21.10	20.06
5	29.87	26.62	28.45	32.48	25.97	26.66	---	25.50	24.31	20.53	19.85	20.17
6	29.67	24.85	28.11	33.67	26.29	26.59	36.69	25.71	24.32	21.86	20.22	20.11
7	29.74	24.50	27.92	32.08	26.56	---	36.74	25.93	24.32	21.02	19.95	20.06
8	29.66	25.51	28.10	30.95	26.12	26.78	36.93	25.79	24.34	20.45	19.66	20.06
9	29.90	25.18	29.45	30.32	25.83	26.88	35.44	25.59	24.34	19.90	19.54	19.79
10	29.74	24.98	31.78	30.00	25.90	27.16	34.19	25.54	24.34	19.41	19.65	18.90
11	29.74	25.20	32.45	28.41	26.64	27.38	31.68	25.51	24.58	22.13	21.70	18.77
12	29.40	25.30	32.55	24.96	25.55	27.03	29.70	25.50	24.78	25.06	22.99	18.88
13	29.92	24.24	32.54	24.76	25.78	26.54	28.26	25.47	24.79	25.64	23.38	18.85
14	29.91	24.04	33.90	27.92	24.96	26.44	27.17	24.89	24.81	26.65	24.37	18.80
15	30.12	25.63	33.64	28.18	23.72	26.38	26.82	24.31	24.83	26.88	25.54	18.97
16	30.40	25.89	33.48	27.81	23.10	26.37	26.70	24.38	25.83	26.59	23.43	18.75
17	30.78	27.58	33.76	28.15	26.48	26.70	26.61	24.45	24.82	25.78	21.18	20.31
18	30.66	26.60	33.55	---	25.24	26.87	26.53	---	21.81	25.79	21.16	20.43
19	30.30	26.64	33.67	---	25.67	30.93	26.51	24.29	19.89	26.53	21.40	19.47
20	31.11	23.51	34.14	32.40	25.60	33.29	26.48	24.40	21.93	26.16	21.65	20.41
21	31.12	25.66	34.20	34.79	23.51	33.51	26.44	---	24.12	26.83	21.65	19.89
22	30.89	25.33	34.13	35.17	21.32	33.62	26.51	---	24.29	24.80	21.24	19.34
23	30.13	26.53	34.27	---	21.53	30.49	26.51	---	24.53	21.88	21.61	20.65
24	30.28	28.10	34.46	35.39	24.16	27.72	26.47	---	25.35	20.51	20.39	20.18
25	32.32	27.39	34.49	---	25.02	27.06	26.41	---	22.55	19.89	20.28	19.38
26	29.54	27.19	34.50	33.83	21.57	26.79	26.26	24.20	20.00	19.91	20.27	22.12
27	30.24	27.12	34.52	33.57	21.20	26.70	26.16	24.17	19.75	22.81	20.36	22.23
28	30.30	27.02	34.52	---	22.32	26.74	26.13	24.15	19.69	22.62	20.62	19.18
29	30.30	27.57	34.48	---	---	28.50	26.08	24.12	19.82	20.77	19.73	19.15
30	29.24	---	33.40	29.30	---	35.59	25.64	24.12	19.72	20.35	20.03	19.22
31	27.35	---	33.49	29.66	---	36.38	---	24.15	---	19.85	19.61	---
MEAN	30.10	---	---	---	24.82	---	---	---	23.37	22.54	21.04	19.76
MAX	32.32	---	---	---	29.15	---	---	---	25.83	26.88	25.54	22.23
MIN	27.35	---	---	---	21.20	---	---	---	19.69	19.41	19.54	18.75



0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1998 to current year.
pH: March 1998 to current year.
WATER TEMPERATURE: March 1998 to current year.
DISSOLVED OXYGEN: March 1998 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources, to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	213, November 2, 2000	53, September 19, 2003
pH, standard units	8.7, March 12, 2004	6.1, September 16, 1999
WATER TEMPERATURE, °C	30.9, July 22, 1998	2.2, January 25, 28, 2003
DISSOLVED OXYGEN, mg/L	16.1, January 13, 1999	3.8, August 21, 22, 2003
DISSOLVED OXYGEN, PERCENT SATURATION, %	132, January 13, 14, 1999	47, June 27, 2001, August 21, 2003

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	153, September 25, 28, 30	89, October 24
pH, standard units	8.3, May 27	6.6, August 19
WATER TEMPERATURE, °C	30.0 July 26	3.8, January 31
DISSOLVED OXYGEN, mg/L	12.6, March 4	4.3, July 27
DISSOLVED OXYGEN, PERCENT SATURATION,%	109, April 5	55, July 27

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	113	102	103	112	103	106	113	106	107	107	106	107
2	114	101	103	120	103	108	---	---	---	113	106	108
3	111	101	103	121	108	111	107	106	107	113	106	107
4	111	99	102	119	107	110	109	106	107	113	106	107
5	114	100	103	121	108	110	108	107	108	113	106	108
6	115	102	104	125	107	111	109	107	108	111	106	107
7	115	104	105	124	107	111	109	107	108	113	106	107
8	117	104	106	121	107	111	109	108	109	116	106	107
9	116	104	106	124	108	112	114	106	108	116	105	107
10	119	105	107	124	108	112	108	104	106	117	106	107
11	119	106	108	122	108	113	108	103	105	116	106	108
12	119	107	109	122	107	112	109	105	106	122	106	110
13	115	106	109	117	104	108	110	105	106	122	106	110
14	112	104	106	121	105	109	107	105	106	112	101	105
15	111	103	105	121	107	111	108	106	107	111	99	104
16	107	101	102	117	108	110	108	107	107	114	102	106
17	105	99	101	115	106	108	108	107	107	112	102	105
18	106	99	101	116	107	109	108	107	107	111	101	104
19	105	98	100	116	107	109	108	106	107	109	101	103
20	99	91	94	122	108	110	107	105	106	108	99	102
21	99	91	93	122	108	111	105	104	105	102	100	101
22	96	91	92	117	108	111	105	104	104	101	100	100
23	100	90	94	119	108	111	104	103	103	100	99	99
24	97	89	91	117	109	111	104	103	104	100	98	99
25	95	93	94	119	109	111	104	104	104	101	99	100
26	103	93	95	119	109	112	105	104	104	106	100	101
27	99	91	93	119	109	111	106	104	105	107	100	101
28	101	90	94	117	108	111	106	104	105	107	101	102
29	106	99	101	116	108	110	106	105	106	109	102	103
30	115	100	103	---	---	---	107	105	106	114	102	105
31	117	104	111	---	---	---	110	106	107	111	102	104
MONTH	119	89	101	---	---	---	---	---	---	122	98	105
		FEBRUARY			MARCH			APRIL			MAY	
1	113	103	105	106	102	104	---	---	---	114	113	114
2	116	104	107	107	105	106	---	---	---	114	112	113
3	122	105	109	110	103	106	---	---	---	114	112	113
4	119	103	108	111	102	105	---	---	---	114	112	113
5	111	102	106	110	102	106	---	---	---	114	112	113
6	114	102	106	106	105	105	106	105	106	113	107	111
7	116	105	108	---	---	---	107	106	107	109	107	108
8	117	105	109	105	100	103	108	107	107	109	107	108
9	116	106	110	106	99	102	109	107	108	109	105	108
10	117	107	111	108	99	103	110	108	109	108	104	105
11	119	107	111	108	99	103	112	109	110	108	104	106
12	120	108	113	106	99	103	112	111	112	109	104	107
13	117	106	111	103	102	103	113	111	112	106	104	105
14	114	105	109	103	101	102	113	112	113	110	104	108
15	118	103	108	101	100	101	113	112	113	112	108	110
16	113	103	108	100	98	99	113	112	112	111	109	110
17	110	101	103	99	97	98	113	112	113	110	108	109
18	110	101	104	98	96	97	114	108	113	---	---	---
19	109	101	105	98	95	96	114	113	113	110	108	109
20	108	100	104	96	95	96	116	112	114	110	108	109
21	108	101	105	99	96	98	114	108	113	---	---	---
22	110	104	108	99	98	99	114	113	113	---	---	---
23	108	104	107	102	98	100	114	113	113	---	---	---
24	114	103	107	102	101	101	114	113	113	---	---	---
25	110	102	105	102	101	102	114	113	113	---	---	---
26	115	102	109	102	101	102	114	112	113	114	113	114
27	115	106	111	103	101	101	114	113	113	114	113	114
28	114	102	108	102	100	101	114	110	113	115	113	114
29	---	---	---	100	97	99	114	113	113	115	113	114
30	---	---	---	100	97	99	114	113	114	114	113	114
31	---	---	---	102	100	101	---	---	---	114	112	113
MONTH	122	100	108	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	114	112	113	123	119	122	129	126	127	133	130	132
2	114	113	113	126	121	123	128	124	126	137	130	134
3	113	112	113	125	119	122	127	121	125	136	130	132
4	113	112	112	124	115	120	122	117	119	134	131	132
5	114	112	113	120	110	116	122	118	119	132	128	130
6	113	111	112	118	106	110	119	116	117	131	128	130
7	113	111	112	121	104	111	121	117	119	132	128	130
8	115	112	114	113	93	100	120	117	119	131	128	130
9	115	113	114	101	92	97	120	117	119	132	128	130
10	115	113	114	101	96	99	123	118	120	141	132	137
11	114	111	112	---	---	---	122	112	119	141	137	139
12	114	111	112	---	---	---	122	112	114	140	136	138
13	111	109	110	124	105	110	123	112	115	139	135	137
14	111	109	110	119	104	108	123	112	114	139	137	138
15	111	110	111	129	109	112	122	111	113	140	136	138
16	121	106	110	131	110	113	115	111	112	140	132	136
17	121	106	110	128	112	114	116	113	115	139	120	136
18	122	107	112	127	109	115	128	114	117	138	118	125
19	124	121	123	120	104	110	135	118	125	141	137	139
20	124	107	120	127	108	111	128	124	126	147	123	130
21	122	106	110	128	109	111	129	126	127	144	118	124
22	122	106	109	126	110	114	131	124	127	146	135	144
23	120	106	109	126	111	117	127	124	126	148	121	127
24	121	105	108	126	122	124	134	124	131	148	119	125
25	122	105	111	129	121	126	133	129	131	153	123	133
26	124	121	123	131	126	128	133	129	131	151	118	130
27	126	121	123	129	110	120	134	130	131	150	118	122
28	124	121	123	124	110	116	131	128	129	153	123	134
29	124	119	122	125	121	123	139	129	133	152	126	135
30	123	118	121	127	122	124	136	126	131	153	126	135
31	---	---	---	129	126	127	133	130	131	---	---	---
MONTH	126	105	114	---	---	---	139	111	123	153	118	133

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.3	7.2	7.2	7.3	7.0	7.1	7.4	7.2	7.2	7.4	7.3	7.4
2	7.3	7.2	7.2	7.4	7.0	7.1	---	---	---	7.5	7.3	7.4
3	7.3	7.2	7.2	7.4	7.2	7.2	7.3	7.2	7.3	7.5	7.4	7.4
4	7.3	7.1	7.2	7.3	7.2	7.2	7.4	7.2	7.3	7.5	7.3	7.4
5	7.3	7.2	7.2	7.4	7.1	7.2	7.4	7.2	7.3	7.5	7.3	7.4
6	7.3	7.2	7.2	7.6	7.2	7.2	7.3	7.2	7.3	7.4	7.4	7.4
7	7.4	7.2	7.3	7.6	7.2	7.3	7.4	7.2	7.3	7.4	7.3	7.4
8	7.4	7.2	7.3	7.6	7.2	7.3	7.4	7.2	7.3	7.4	7.3	7.4
9	7.3	7.2	7.2	7.5	7.3	7.3	7.3	7.2	7.2	7.5	7.3	7.4
10	7.3	7.2	7.2	7.6	7.2	7.3	7.2	7.2	7.2	7.4	7.3	7.4
11	7.2	7.1	7.2	7.5	7.2	7.3	7.2	7.1	7.2	7.5	7.3	7.4
12	7.3	7.1	7.2	7.5	7.2	7.3	7.3	7.2	7.2	7.6	7.2	7.3
13	7.2	7.1	7.2	7.3	7.0	7.1	7.3	7.2	7.3	7.6	7.3	7.4
14	7.2	7.1	7.1	7.6	7.1	7.2	7.4	7.3	7.3	7.4	7.2	7.3
15	7.2	7.1	7.1	7.6	7.2	7.3	7.4	7.3	7.3	7.4	7.2	7.3
16	7.3	7.1	7.2	7.5	7.2	7.3	7.4	7.3	7.3	7.4	7.3	7.3
17	7.3	7.2	7.2	7.5	7.2	7.3	7.4	7.3	7.3	7.6	7.3	7.4
18	7.3	7.2	7.2	7.4	7.2	7.3	7.4	7.3	7.3	7.6	7.4	7.4
19	7.3	7.1	7.2	7.4	7.2	7.3	7.3	7.3	7.3	7.6	7.4	7.4
20	7.2	7.0	7.1	7.5	7.2	7.2	7.4	7.3	7.3	7.5	7.4	7.4
21	7.2	7.1	7.1	7.5	7.2	7.3	7.4	7.3	7.3	7.4	7.4	7.4
22	7.2	7.0	7.1	7.5	7.2	7.3	7.4	7.3	7.3	7.4	7.4	7.4
23	7.1	7.0	7.0	7.4	7.2	7.3	7.3	7.3	7.3	7.5	7.4	7.4
24	7.1	7.0	7.0	7.3	7.2	7.3	7.3	7.3	7.3	7.7	7.4	7.5
25	7.1	7.0	7.0	7.4	7.2	7.3	7.4	7.3	7.3	7.7	7.6	7.7
26	7.1	7.0	7.0	7.6	7.2	7.3	7.4	7.3	7.3	7.7	7.5	7.6
27	7.1	7.0	7.0	7.4	7.3	7.3	7.4	7.3	7.4	7.7	7.5	7.6
28	7.1	7.0	7.0	7.5	7.3	7.3	7.4	7.4	7.4	7.7	7.6	7.6
29	7.1	7.0	7.0	7.5	7.3	7.4	7.4	7.4	7.4	7.7	7.6	7.6
30	7.2	7.0	7.0	---	---	---	7.4	7.4	7.4	7.7	7.5	7.6
31	7.2	7.0	7.1	---	---	---	7.4	7.4	7.4	7.8	7.5	7.6
MONTH	7.4	7.0	7.1	---	---	---	---	---	---	7.8	7.2	7.4
		FEBRUARY			MARCH			APRIL			MAY	
1	7.8	7.6	7.6	7.8	7.5	7.6	---	---	---	7.6	7.0	7.1
2	7.7	7.5	7.6	7.9	7.5	7.7	---	---	---	7.6	7.1	7.3
3	7.7	7.5	7.6	8.0	7.7	7.8	---	---	---	7.7	7.1	7.3
4	7.8	7.5	7.6	8.1	7.7	7.8	---	---	---	7.7	7.1	7.3
5	7.8	7.5	7.6	8.0	7.7	7.7	---	---	---	7.5	7.1	7.2
6	7.7	7.5	7.6	7.9	7.7	7.8	7.1	7.0	7.0	7.4	7.1	7.1
7	7.8	7.5	7.6	---	---	---	7.0	6.9	7.0	7.6	7.1	7.2
8	7.8	7.5	7.6	7.8	7.4	7.6	7.1	6.9	7.0	7.8	7.2	7.4
9	7.8	7.5	7.6	7.8	7.4	7.5	7.1	6.9	7.0	7.8	7.2	7.4
10	7.8	7.5	7.6	7.9	7.5	7.6	7.2	7.0	7.0	8.0	7.2	7.4
11	7.8	7.6	7.6	7.8	7.5	7.6	7.2	6.9	7.0	7.9	7.3	7.5
12	8.0	7.6	7.7	7.8	7.5	7.6	7.2	6.9	7.0	7.8	7.2	7.4
13	7.9	7.6	7.7	7.8	7.5	7.6	7.0	6.9	6.9	7.8	7.2	7.4
14	7.8	7.6	7.6	7.8	7.5	7.6	7.4	6.9	7.1	7.8	7.2	7.4
15	7.6	7.5	7.6	7.8	7.4	7.6	7.4	7.0	7.1	7.8	7.3	7.5
16	7.8	7.5	7.6	7.7	7.4	7.5	7.4	7.0	7.1	8.0	7.3	7.5
17	7.7	7.6	7.6	7.5	7.4	7.4	7.5	7.0	7.1	8.0	7.2	7.4
18	7.8	7.6	7.6	7.7	7.3	7.4	7.5	6.9	7.1	---	---	---
19	7.9	7.6	7.7	7.6	7.4	7.5	7.5	6.9	7.1	7.8	7.1	7.3
20	7.9	7.6	7.7	7.5	7.4	7.4	7.5	7.0	7.2	7.6	7.2	7.3
21	7.7	7.6	7.6	7.5	7.4	7.5	7.5	7.0	7.2	---	---	---
22	7.8	7.5	7.6	7.5	7.4	7.4	7.5	7.0	7.1	---	---	---
23	7.9	7.5	7.6	7.4	7.3	7.4	7.4	6.9	7.1	---	---	---
24	8.0	7.5	7.6	7.4	7.2	7.3	7.4	7.0	7.1	---	---	---
25	7.6	7.5	7.6	7.4	7.2	7.2	7.7	7.0	7.2	---	---	---
26	7.8	7.5	7.6	7.4	7.2	7.3	7.6	7.1	7.2	8.2	7.4	7.6
27	7.8	7.5	7.7	7.3	7.2	7.2	7.6	7.1	7.2	8.3	7.4	7.8
28	7.7	7.5	7.6	7.3	7.2	7.2	7.7	7.1	7.3	8.2	7.5	7.7
29	---	---	---	7.4	7.2	7.3	7.6	7.0	7.2	8.2	7.5	7.7
30	---	---	---	7.3	7.2	7.3	7.3	7.0	7.1	8.2	7.4	7.7
31	---	---	---	7.3	7.3	7.3	---	---	---	8.0	7.4	7.6
MONTH	8.0	7.5	7.6	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.2	7.4	7.5	7.1	7.3	7.1	6.9	7.0	7.4	7.1	7.2
2	7.4	7.1	7.2	7.4	7.0	7.2	7.2	6.9	7.0	7.5	7.0	7.2
3	7.2	7.1	7.2	7.3	7.0	7.2	7.3	6.9	7.1	7.4	7.0	7.2
4	7.4	7.2	7.2	7.4	7.0	7.2	7.2	6.8	7.0	7.4	7.0	7.1
5	7.4	7.1	7.2	7.4	7.0	7.2	7.2	6.9	7.0	7.3	7.0	7.1
6	7.5	7.1	7.2	7.6	6.9	7.1	7.2	6.9	7.0	7.4	7.0	7.2
7	7.4	7.1	7.2	7.4	7.2	7.2	7.2	6.9	7.0	7.5	7.0	7.2
8	7.5	7.1	7.2	7.4	7.1	7.2	7.1	6.9	7.0	7.5	7.2	7.3
9	7.5	7.0	7.2	7.5	7.2	7.3	7.2	6.9	7.0	7.5	7.2	7.3
10	7.3	7.0	7.1	7.7	7.1	7.4	7.1	6.9	7.0	7.6	7.2	7.4
11	7.4	7.0	7.2	7.4	7.2	7.3	7.1	6.8	6.9	7.6	7.2	7.4
12	7.4	7.0	7.1	7.3	7.1	7.2	7.2	6.8	6.8	7.6	7.2	7.4
13	7.4	7.1	7.2	7.4	7.1	7.2	7.1	6.8	6.8	7.5	7.2	7.3
14	7.6	7.1	7.3	7.4	7.1	7.1	7.1	6.8	6.8	7.5	7.2	7.3
15	7.6	7.2	7.3	7.3	7.0	7.1	7.0	6.8	6.8	7.4	7.2	7.3
16	7.6	7.1	7.2	7.1	7.0	7.0	7.3	6.8	6.9	7.5	7.2	7.3
17	7.6	7.0	7.2	7.3	7.0	7.0	7.0	6.8	6.8	7.7	7.2	7.4
18	7.3	7.0	7.1	7.3	7.0	7.1	7.3	6.8	6.9	7.3	7.2	7.2
19	7.5	7.0	7.2	7.2	6.9	7.0	6.9	6.6	6.8	7.6	7.2	7.4
20	7.4	7.0	7.2	7.1	6.8	7.0	7.0	6.8	6.9	7.5	7.1	7.3
21	7.6	7.0	7.1	7.1	6.9	6.9	7.0	6.7	6.8	7.3	7.2	7.2
22	7.5	7.0	7.1	7.2	6.8	6.9	7.1	6.8	6.9	7.6	7.2	7.4
23	7.6	7.0	7.1	7.2	6.8	6.9	7.1	6.7	6.9	7.6	7.2	7.3
24	7.4	7.0	7.1	7.2	6.9	7.0	7.2	6.9	7.0	7.6	7.3	7.3
25	7.2	7.0	7.0	7.1	6.9	7.0	7.3	6.9	7.1	7.6	7.2	7.4
26	7.4	7.0	7.2	7.2	6.9	7.0	7.2	7.0	7.1	7.6	7.2	7.3
27	7.3	7.0	7.1	7.2	6.8	6.9	7.3	7.0	7.1	7.6	7.2	7.2
28	7.3	7.0	7.2	7.0	6.8	6.9	7.2	6.9	7.0	7.6	7.3	7.4
29	7.4	7.0	7.1	7.1	6.9	7.0	7.3	6.9	7.0	7.6	7.2	7.3
30	7.3	7.0	7.1	7.0	6.9	6.9	7.3	6.9	7.1	7.7	7.2	7.4
31	---	---	---	7.0	6.9	6.9	7.3	7.0	7.1	---	---	---
MONTH	7.9	7.0	7.2	7.7	6.8	7.1	7.3	6.6	7.0	7.7	7.0	7.3

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.8	23.3	23.5	19.1	18.4	18.7	13.3	12.9	13.1	8.0	7.3	7.6
2	24.0	23.3	23.5	19.4	18.3	18.7	---	---	---	8.5	7.6	7.9
3	23.9	23.4	23.6	19.5	19.0	19.2	12.8	12.3	12.6	8.3	7.6	7.9
4	23.8	23.0	23.4	19.1	18.2	18.5	12.5	12.0	12.2	9.1	8.1	8.3
5	23.7	22.8	23.3	18.4	17.5	18.2	12.5	11.7	12.0	9.3	8.2	8.6
6	23.4	22.0	22.9	17.8	16.6	17.3	12.3	12.0	12.2	9.4	8.6	9.0
7	23.0	21.7	22.4	17.6	16.6	17.0	12.9	12.3	12.5	9.5	9.1	9.3
8	22.9	21.5	22.2	17.3	16.7	16.9	13.1	12.7	12.9	9.7	9.2	9.5
9	22.6	21.7	22.2	16.7	15.5	16.1	12.8	12.5	12.7	9.6	9.2	9.4
10	22.9	22.1	22.4	16.2	15.0	15.7	13.2	12.8	13.0	9.5	8.8	9.1
11	22.4	21.3	22.0	16.0	15.0	15.6	12.9	12.5	12.7	9.4	8.8	9.1
12	22.3	20.9	21.7	15.9	15.6	15.7	12.5	12.0	12.3	10.0	8.8	9.2
13	21.8	20.9	21.4	15.8	14.1	14.9	12.0	11.3	11.8	11.5	9.4	10
14	21.4	20.4	21.1	14.8	13.3	14.3	11.3	10.7	11.1	11.5	10.0	10.5
15	21.2	20.5	20.9	15.0	13.8	14.4	10.7	10.0	10.4	10.7	9.6	10.0
16	20.9	19.8	20.4	14.6	13.8	14.1	10.1	9.7	9.9	9.8	9.0	9.5
17	20.3	19.3	19.9	14.4	13.7	14.1	10.0	9.5	9.7	9.4	8.0	8.9
18	19.9	18.9	19.5	14.4	13.8	14.1	10.1	9.6	9.8	8.0	6.7	7.5
19	20.1	19.5	19.8	14.7	14.0	14.3	10.0	9.9	9.9	7.0	6.4	6.8
20	20.0	19.5	19.7	15.1	14.4	14.5	9.9	8.6	9.2	6.5	5.8	6.2
21	19.7	19.3	19.6	15.2	14.6	14.9	8.6	8.1	8.3	7.1	6.2	6.7
22	19.6	19.0	19.3	15.2	14.6	14.8	8.3	7.6	7.9	7.0	6.7	6.9
23	19.2	18.4	18.9	15.1	14.8	14.9	9.0	8.2	8.6	6.7	5.5	6.1
24	18.7	18.1	18.4	15.0	14.8	14.9	9.0	8.6	8.8	5.5	5.0	5.2
25	18.4	18.0	18.1	15.3	14.3	15.0	8.6	7.7	8.2	5.3	4.7	4.9
26	18.4	17.4	18.0	14.3	13.2	13.9	7.7	6.9	7.3	5.4	4.9	5.1
27	18.3	17.5	17.9	13.6	12.6	13.3	6.9	6.4	6.7	5.4	4.8	5.2
28	18.3	17.8	18.0	13.6	13.3	13.5	6.6	6.3	6.4	4.9	4.2	4.6
29	18.1	17.7	17.9	13.3	12.6	13.0	6.8	6.3	6.5	4.5	3.9	4.2
30	18.8	17.9	18.2	---	---	---	7.2	6.6	6.9	4.2	4.0	4.1
31	19.0	18.2	18.6	---	---	---	7.6	7.0	7.3	4.6	3.8	4.1
MONTH	24.0	17.4	20.6	---	---	---	---	---	---	11.5	3.8	7.5
		FEBRUARY			MARCH			APRIL			MAY	
1	4.7	4.0	4.3	7.0	6.5	6.7	---	---	---	16.8	15.7	16.1
2	4.7	4.0	4.3	6.7	5.6	6.1	---	---	---	17.1	15.8	16.4
3	5.0	4.2	4.5	6.5	5.2	5.7	---	---	---	17.3	16.0	16.6
4	5.2	4.1	4.5	6.8	5.1	5.7	---	---	---	17.1	16.0	16.5
5	5.2	4.3	4.7	6.5	5.7	5.9	---	---	---	16.7	15.6	16.0
6	5.4	4.4	4.9	7.1	5.4	6.1	13.0	11.6	12.2	16.2	15.0	15.4
7	6.0	4.7	5.2	---	---	---	12.8	12.3	12.6	16.6	14.7	15.4
8	6.5	5.1	5.6	7.6	7.2	7.4	13.3	12.6	12.8	16.9	15.5	16.1
9	6.6	5.8	6.2	7.9	6.5	7.1	13.6	12.6	13.0	17.3	15.7	16.4
10	6.7	6.3	6.5	8.1	6.8	7.2	14.0	12.7	13.2	17.8	15.8	16.7
11	6.5	5.5	5.9	7.8	6.9	7.3	14.4	12.9	13.4	18.6	16.4	17.4
12	6.5	5.3	5.8	7.9	6.7	7.2	14.3	12.7	13.1	19.8	17.3	18.1
13	6.5	5.5	5.9	8.3	7.0	7.5	13.1	13.0	13.0	19.7	17.2	17.9
14	6.4	5.7	5.9	8.0	7.1	7.4	14.0	12.5	13.1	19.9	17.6	18.5
15	6.8	6.2	6.5	8.7	7.2	7.9	13.8	12.0	12.8	20.3	19.4	19.9
16	7.9	6.8	7.3	8.4	7.5	7.9	13.6	11.9	12.7	20.8	19.7	20.2
17	7.3	6.9	7.1	7.5	7.0	7.2	14.0	12.0	12.9	20.6	18.5	19.4
18	7.3	6.4	6.8	8.2	6.7	7.3	14.9	12.7	13.6	---	---	---
19	7.3	6.3	6.7	7.9	6.6	7.2	15.5	13.6	14.5	20.4	18.8	19.4
20	7.2	6.4	6.7	8.4	7.0	7.7	16.1	15.0	15.5	19.8	19.0	19.3
21	7.3	6.6	6.9	8.7	8.0	8.3	17.4	15.5	16.4	---	---	---
22	7.5	7.2	7.4	8.9	8.1	8.4	17.3	15.0	15.8	---	---	---
23	8.2	6.8	7.4	9.5	8.3	8.8	16.7	15.8	16.1	---	---	---
24	8.2	6.6	7.1	9.9	9.3	9.5	16.6	15.6	16.0	---	---	---
25	7.3	6.6	6.9	9.7	8.9	9.0	15.6	14.4	14.9	---	---	---
26	7.6	6.8	7.1	9.5	8.7	9.1	15.3	14.0	14.3	21.0	19.1	19.9
27	7.6	6.9	7.3	9.4	9.1	9.2	15.6	14.0	14.6	21.5	19.7	20.6
28	7.3	6.3	6.7	10.4	9.2	9.7	16.0	14.6	15.2	21.4	20.5	21.0
29	---	---	---	10.9	9.9	10.2	15.9	15.1	15.3	21.9	20.4	21.1
30	---	---	---	10.9	9.9	10.4	16.2	15.0	15.5	21.8	20.9	21.2
31	---	---	---	11.0	10.3	10.6	---	---	---	22.4	20.9	21.6
MONTH	8.2	4.0	6.1	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.3	20.4	20.9	26.6	25.7	26.0	27.9	26.6	27.1	28.2	27.0	27.6
2	20.9	20.1	20.3	26.9	25.7	26.2	28.8	27.4	28.0	28.3	27.2	27.7
3	20.4	20.1	20.3	25.8	25.1	25.5	29.2	27.8	28.4	27.9	26.7	27.4
4	21.2	20.2	20.6	26.6	25.2	25.8	29.0	27.2	27.9	27.9	26.3	26.8
5	21.7	20.0	20.8	27.3	26.1	26.6	28.8	27.6	28.1	26.9	25.8	26.3
6	22.4	20.1	21.2	28.7	25.0	26.3	28.4	26.6	27.4	26.8	25.6	26.1
7	22.5	20.8	21.7	28.1	26.4	26.9	28.1	26.6	27.2	26.5	25.3	25.8
8	23.9	21.1	22.7	27.0	25.3	26.0	27.4	26.3	26.8	26.3	25.1	25.7
9	23.8	21.5	22.5	28.1	26.6	27.3	27.4	26.4	26.8	26.2	24.9	25.6
10	23.5	21.7	22.5	28.4	26.9	27.5	27.8	27.0	27.4	26.0	25.0	25.4
11	23.8	21.6	22.7	27.3	26.4	26.9	28.1	26.6	27.3	25.4	24.6	24.9
12	23.7	21.9	22.8	28.1	26.9	27.5	29.2	27.1	27.8	25.6	24.4	24.9
13	24.8	22.2	23.3	27.8	26.5	27.1	28.7	27.1	27.6	26.0	25.3	25.5
14	26.4	24.8	25.5	27.8	26.5	26.8	28.5	27.0	27.5	25.8	25.1	25.4
15	26.6	24.1	25.1	28.2	26.6	27.0	28.9	27.6	28.0	25.5	25.0	25.3
16	27.1	25.0	26.3	27.8	26.2	26.9	29.2	27.9	28.4	26.2	25.5	25.8
17	26.7	25.0	26.0	27.6	26.2	26.7	28.8	27.2	27.6	27.3	25.9	26.4
18	25.7	24.3	24.9	28.6	26.7	27.3	28.3	27.1	27.5	26.8	25.6	26.2
19	26.1	24.5	25.2	28.6	27.3	27.7	27.8	26.8	27.2	27.1	26.1	26.5
20	24.8	23.4	24.0	28.9	27.4	27.8	28.7	27.3	28.0	27.0	25.4	26.1
21	25.6	23.1	23.8	28.6	27.5	27.9	28.7	27.2	28.0	26.3	25.7	25.9
22	26.1	24.3	24.8	28.7	27.4	27.8	29.4	28.6	29.0	27.1	25.9	26.5
23	26.4	23.8	24.7	28.8	27.2	27.7	29.4	27.7	28.2	27.2	25.4	26.1
24	25.2	23.4	23.9	29.1	27.2	27.9	28.4	27.1	27.7	26.5	26.0	26.2
25	25.1	23.5	24.1	28.5	27.0	27.7	28.5	27.2	27.7	26.4	25.5	26.0
26	25.7	24.1	24.7	30.0	28.4	29.0	28.0	26.6	27.2	26.4	25.4	25.8
27	25.5	24.1	24.6	29.9	27.7	28.6	27.8	26.7	27.2	26.6	25.6	26.0
28	25.9	24.8	25.3	28.8	28.2	28.4	27.5	26.2	26.9	26.6	24.8	25.5
29	25.1	23.9	24.4	28.7	27.2	27.7	28.0	26.9	27.3	25.9	24.7	25.2
30	25.9	24.3	24.8	27.6	26.6	27.1	27.8	26.5	27.2	25.4	24.0	24.6
31	---	---	---	27.2	26.6	26.8	27.9	27.1	27.5	---	---	---
MONTH	27.1	20.0	23.5	30.0	25.0	27.2	29.4	26.2	27.6	28.3	24.0	26.0

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	6.5	6.7	8.2	7.2	7.6	9.9	8.9	9.2	11.1	10.7	10.8
2	7.3	6.5	6.8	8.4	7.2	7.6	---	---	---	11.6	10.7	10.9
3	7.6	6.5	6.8	8.3	7.4	7.8	9.7	9.1	9.3	11.5	10.6	10.8
4	7.3	6.4	6.7	8.3	7.4	7.7	9.9	9.2	9.5	11.4	10.5	10.7
5	7.8	6.6	6.9	8.7	7.4	7.9	10.0	9.2	9.4	11.4	10.5	10.7
6	7.7	6.6	6.9	9.7	7.8	8.1	10.0	9.2	9.5	11.0	10.4	10.6
7	7.7	6.7	7.0	9.8	7.9	8.2	9.6	9.1	9.3	10.8	10.2	10.5
8	7.8	6.7	7.0	9.2	7.9	8.4	9.7	8.9	9.2	10.8	10.0	10.3
9	7.5	6.6	6.8	9.2	8.2	8.7	9.7	9.1	9.2	11.0	10.2	10.5
10	7.5	6.5	6.8	9.5	8.3	8.8	9.6	9.0	9.2	11.0	10.2	10.5
11	7.6	6.5	6.8	9.5	8.3	8.8	9.4	8.9	9.1	11.0	10.2	10.5
12	7.5	6.6	6.9	9.3	8.3	8.7	9.6	9.0	9.3	11.6	10.1	10.5
13	7.2	6.7	6.8	9.9	8.3	8.6	9.8	9.2	9.4	11.3	10.0	10.4
14	7.3	6.5	6.8	10.6	8.5	8.9	10.0	9.5	9.7	10.7	9.6	10.0
15	7.2	6.6	6.8	10.1	8.5	9.1	10.4	9.7	10	10.9	9.6	10.2
16	7.4	6.7	7.0	9.6	8.8	9.1	10.7	9.9	10.2	11.0	10.1	10.4
17	7.6	6.8	7.2	9.6	8.8	9.1	10.5	10.1	10.3	11.3	10.1	10.5
18	7.6	7.1	7.3	9.7	8.8	9.1	10.5	10.0	10.2	11.6	10.6	10.9
19	7.6	7.0	7.2	9.4	8.6	9.0	10.5	9.8	10	11.6	10.7	11.0
20	7.5	6.9	7.1	9.7	8.6	8.8	10.4	9.7	10.0	11.2	10.8	11.0
21	7.4	6.8	7.0	9.7	8.4	8.8	10.6	10.2	10.4	11.0	10.5	10.7
22	7.6	6.9	7.1	9.7	8.6	8.9	10.7	10.2	10.6	10.8	10.5	10.6
23	7.8	6.9	7.2	9.4	8.5	8.7	10.6	10.1	10.3	11.2	10.6	10.9
24	7.6	6.9	7.1	8.8	8.4	8.6	10.5	10.1	10.3	11.4	11.1	11.2
25	7.3	7.0	7.1	9.3	8.4	8.8	10.7	10.3	10.5	11.3	11.1	11.2
26	7.9	7.0	7.3	10.1	8.7	9.2	10.9	10.5	10.6	11.6	11.0	11.1
27	7.9	7.1	7.3	9.9	9.0	9.3	11.2	10.7	10.9	11.7	11.0	11.2
28	7.8	7.0	7.3	10.0	9.1	9.4	11.1	10.8	10.9	12.0	11.2	11.5
29	7.8	7.0	7.2	10.0	9.2	9.5	11.1	10.8	10.9	12.3	11.5	11.6
30	8.1	7.0	7.3	---	---	---	11.3	10.8	11.0	12.0	11.5	11.7
31	8.2	7.0	7.5	---	---	---	11.3	10.8	10.9	12.2	11.5	11.7
MONTH	8.2	6.4	7.0	---	---	---	---	---	---	12.3	9.6	10.8
		FEBRUARY			MARCH			APRIL			MAY	
1	12.2	11.6	11.8	12.1	11.3	11.6	---	---	---	10.5	9.0	9.5
2	12.1	11.7	11.8	12.2	11.6	11.9	---	---	---	10.5	8.8	9.6
3	12.3	11.7	11.9	12.5	11.6	11.9	---	---	---	10.3	8.9	9.4
4	12.2	11.7	11.9	12.6	11.9	12.1	---	---	---	10.3	8.6	9.3
5	12.5	11.7	12.0	12.3	11.7	11.9	---	---	---	10.2	8.8	9.4
6	12.3	11.8	12.0	12.3	11.8	12.0	11.2	10.6	10.9	9.9	8.8	9.1
7	12.3	11.7	11.9	---	---	---	11.2	10.4	10.8	10.0	8.8	9.2
8	12.3	11.6	11.8	12.0	11.2	11.5	10.9	10.3	10.6	10.2	8.5	9.2
9	12.2	11.3	11.6	12.1	11.3	11.5	11.1	10.1	10.5	10.2	8.5	9.1
10	11.9	11.2	11.4	12.2	11.2	11.6	11.0	10.0	10.5	10.1	8.2	9.0
11	11.9	11.4	11.6	12.1	11.4	11.6	10.7	9.7	10.2	9.9	8.4	9.0
12	12.1	11.5	11.8	12.1	11.4	11.6	10.5	9.4	9.7	9.7	8.0	8.7
13	12.1	11.4	11.7	12.3	11.6	11.9	9.9	9.1	9.4	9.5	8.0	8.6
14	12.0	11.5	11.6	12.2	11.6	11.8	10.2	9.2	9.6	9.4	8.0	8.5
15	11.8	11.3	11.6	12.2	11.5	11.8	10.3	9.1	9.6	9.4	7.7	8.3
16	11.9	11.2	11.6	12.0	11.4	11.7	10.3	9.2	9.6	9.4	7.4	8.2
17	11.8	11.4	11.6	12.2	11.6	11.8	10.4	9.2	9.6	9.2	7.6	8.2
18	12.0	11.4	11.6	12.4	11.7	12.0	10.2	8.9	9.4	---	---	---
19	12.2	11.4	11.7	12.4	11.8	12.1	10.0	8.7	9.3	9.2	7.5	8.0
20	12.2	11.5	11.7	12.2	11.9	12.1	10.2	8.5	9.3	8.7	7.3	7.8
21	12.0	11.4	11.6	12.2	11.9	12.0	9.9	8.4	9.1	---	---	---
22	11.9	11.2	11.5	12.2	11.8	12.0	9.8	8.4	9.0	---	---	---
23	12.2	11.4	11.7	12.0	11.5	11.7	9.7	8.2	8.7	---	---	---
24	12.2	11.4	11.7	11.9	11.3	11.5	9.4	8.1	8.6	---	---	---
25	11.8	11.3	11.6	11.8	11.3	11.5	10.2	8.3	9.1	---	---	---
26	12.1	11.4	11.7	11.9	11.5	11.7	10.0	8.7	9.2	8.9	7.5	8.0
27	12.0	11.4	11.7	11.8	11.4	11.6	10.0	8.4	9.1	9.2	7.7	8.3
28	11.9	11.3	11.5	11.7	11.1	11.3	10.2	8.3	9.1	8.9	7.5	8.1
29	---	---	---	11.9	11.1	11.5	10.0	8.4	8.9	8.9	7.5	8.1
30	---	---	---	11.9	11.6	11.7	10.3	9.0	9.5	8.8	7.5	8.1
31	---	---	---	11.9	11.6	11.8	---	---	---	8.8	7.5	8.1
MONTH	12.5	11.2	11.7	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.6	7.4	7.7	---	---	---	6.5	5.8	6.1	6.8	5.8	6.2
2	7.9	6.8	7.1	---	---	---	6.8	5.4	6.0	6.9	5.6	6.2
3	7.6	6.9	7.1	---	---	---	6.6	5.2	5.9	6.8	5.7	6.1
4	8.2	7.1	7.4	---	---	---	6.7	5.3	5.9	6.9	5.6	6.1
5	8.5	6.9	7.6	---	---	---	7.0	5.4	6.1	6.9	5.8	6.2
6	8.8	7.3	7.9	---	---	---	7.1	5.9	6.3	7.0	5.8	6.3
7	8.7	7.3	7.8	---	---	---	7.3	5.9	6.5	7.0	5.8	6.3
8	8.3	6.9	7.4	---	---	---	7.2	6.0	6.5	6.9	5.8	6.2
9	8.1	6.5	7.1	---	---	---	7.2	6.0	6.4	7.0	5.9	6.3
10	7.8	6.4	7.0	---	---	---	7.3	6.1	6.5	7.1	6.1	6.5
11	8.0	6.5	7.1	---	---	---	7.3	4.8	6.2	7.2	6.0	6.5
12	7.9	6.4	7.0	---	---	---	7.2	4.8	5.2	7.1	5.9	6.5
13	7.8	6.5	6.9	---	---	---	7.1	4.8	5.2	7.0	5.8	6.3
14	7.7	6.1	6.7	---	---	---	6.8	4.8	5.2	6.8	5.8	6.2
15	7.4	6.0	6.5	---	---	---	6.9	5.0	5.4	6.7	6.0	6.3
16	7.2	5.6	6.3	---	---	---	6.8	5.2	5.7	6.9	6.0	6.4
17	7.1	5.4	6.1	---	---	---	6.3	5.2	5.6	7.3	6.2	6.7
18	6.6	5.6	5.8	---	---	---	6.9	5.4	6.1	6.5	5.5	6.0
19	7.1	5.6	6.3	---	---	---	6.1	4.5	5.2	7.4	6.0	6.5
20	7.2	5.6	6.1	---	---	---	6.8	5.8	6.1	7.1	5.6	6.1
21	7.6	5.0	5.7	6.2	5.2	5.4	6.7	5.4	6.0	6.5	5.6	6.0
22	7.4	5.8	6.2	6.1	5.0	5.3	7.0	5.5	6.2	7.3	6.1	6.5
23	7.7	6.0	6.3	5.8	4.7	5.0	7.0	5.6	6.1	7.0	5.5	5.9
24	6.9	5.2	6.0	5.9	4.6	5.2	6.5	5.3	5.9	7.0	5.8	6.1
25	---	---	---	5.8	4.5	5.0	6.7	5.5	6.0	7.4	5.6	6.1
26	---	---	---	5.7	4.5	5.1	6.8	5.6	6.1	7.2	5.7	6.2
27	---	---	---	5.6	4.3	4.8	6.8	5.4	6.0	7.2	5.6	6.0
28	---	---	---	6.1	4.5	5.0	6.6	5.6	5.9	7.3	5.8	6.3
29	---	---	---	6.3	5.2	5.6	6.9	5.5	6.0	7.3	5.4	6.2
30	---	---	---	6.2	5.4	5.7	6.7	5.4	5.9	7.8	6.0	6.5
31	---	---	---	6.5	5.6	6.0	6.6	5.4	5.9	---	---	---
MONTH	---	---	---	---	---	---	7.3	4.5	5.9	7.8	5.4	6.3

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	85	76	79	89	77	81	94	85	88	94	89	91
2	87	77	80	92	77	82	---	---	---	99	90	92
3	90	77	80	90	80	84	92	86	88	98	89	92
4	86	75	79	90	79	82	93	86	88	99	90	92
5	92	77	81	93	79	84	94	85	88	98	89	92
6	90	76	80	102	81	85	93	86	89	96	90	92
7	90	77	81	103	82	86	91	85	87	95	89	92
8	90	77	80	95	82	87	92	84	87	95	88	91
9	87	76	79	94	83	88	92	86	87	96	89	92
10	87	75	79	96	83	88	92	85	87	96	88	91
11	87	74	78	96	83	89	89	84	86	96	88	91
12	86	75	79	94	84	88	90	84	87	103	88	91
13	82	76	77	97	82	86	91	85	87	103	89	92
14	82	73	76	104	83	87	91	86	88	96	88	90
15	81	74	76	99	83	89	93	87	89	96	86	91
16	83	74	77	94	85	88	95	87	90	97	88	91
17	84	75	79	94	85	88	93	89	91	96	88	91
18	83	77	80	95	85	89	93	88	90	96	89	91
19	84	76	79	93	84	89	93	87	89	96	88	90
20	82	75	78	97	84	86	90	85	87	91	87	89
21	81	74	77	97	83	87	91	87	88	89	87	88
22	83	75	77	97	85	88	91	87	89	89	86	87
23	84	74	77	94	84	86	90	87	88	90	86	88
24	81	74	76	87	83	85	91	87	89	90	88	89
25	77	74	76	93	84	87	91	88	89	89	87	88
26	83	74	77	98	84	89	90	87	88	91	86	88
27	83	75	77	95	86	89	92	88	89	93	87	89
28	83	74	77	96	87	91	91	88	89	93	87	89
29	82	74	76	96	87	91	91	88	89	94	88	90
30	87	74	78	---	---	---	93	89	90	92	88	89
31	88	74	80	---	---	---	94	89	91	94	87	89
MONTH	92	73	78	---	---	---	---	---	---	103	86	90
		FEBRUARY			MARCH			APRIL			MAY	
1	95	89	91	100	92	95	---	---	---	108	91	97
2	94	89	91	99	92	96	---	---	---	108	90	98
3	97	90	92	102	91	95	---	---	---	108	90	97
4	96	90	92	103	94	96	---	---	---	107	87	96
5	98	90	93	100	94	96	---	---	---	105	89	95
6	97	91	94	102	94	97	107	98	102	101	88	91
7	99	91	94	---	---	---	106	98	101	103	88	93
8	99	91	94	101	94	96	104	97	100	106	85	93
9	99	91	94	102	92	95	107	95	100	105	86	93
10	97	92	93	103	92	96	107	94	100	106	84	93
11	97	91	93	102	94	97	105	93	98	105	86	94
12	99	91	94	102	93	97	103	89	93	105	84	92
13	99	91	94	105	96	100	94	87	90	104	84	91
14	98	92	93	103	96	99	99	87	91	103	84	91
15	97	92	95	105	95	100	99	85	91	103	84	92
16	100	93	97	103	96	99	99	85	91	105	81	90
17	98	94	96	101	96	98	101	86	91	103	81	90
18	100	93	95	105	96	100	100	84	91	---	---	---
19	101	92	96	104	96	100	100	84	91	102	81	87
20	101	94	96	104	99	101	104	85	93	96	79	84
21	99	94	95	105	101	103	104	85	93	---	---	---
22	99	93	96	106	100	103	100	83	91	---	---	---
23	104	94	98	103	99	101	99	83	89	---	---	---
24	104	93	97	105	99	101	95	82	87	---	---	---
25	98	92	95	104	98	100	102	81	90	---	---	---
26	101	94	97	104	99	101	100	85	90	100	81	88
27	101	94	97	103	99	101	100	82	89	105	84	93
28	99	92	95	105	98	100	104	82	91	101	84	92
29	---	---	---	108	99	102	101	84	89	102	84	92
30	---	---	---	108	103	105	105	91	96	100	84	92
31	---	---	---	108	104	106	---	---	---	101	84	92
MONTH	104	89	95	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	99	82	87	---	---	---	83	73	77	87	74	79
2	89	75	79	---	---	---	87	69	77	89	71	79
3	84	76	79	---	---	---	86	67	76	87	71	77
4	93	79	83	---	---	---	87	67	76	88	70	76
5	97	77	85	---	---	---	91	69	79	87	72	78
6	102	81	89	---	---	---	91	75	80	88	71	78
7	101	82	89	---	---	---	94	74	82	87	71	77
8	96	80	86	---	---	---	91	75	81	85	71	77
9	96	75	82	---	---	---	91	75	81	87	72	77
10	92	73	81	---	---	---	93	78	83	88	74	79
11	95	74	82	---	---	---	93	61	78	88	72	79
12	94	73	81	---	---	---	94	61	67	86	72	79
13	93	75	82	---	---	---	92	61	66	86	71	77
14	93	74	83	---	---	---	88	60	66	84	71	76
15	92	72	79	---	---	---	90	64	70	82	73	77
16	90	69	78	---	---	---	89	67	73	85	74	79
17	89	67	75	---	---	---	82	66	72	92	77	83
18	81	67	71	---	---	---	89	69	78	81	69	74
19	88	67	76	---	---	---	78	57	66	93	75	81
20	87	66	73	---	---	---	88	73	78	89	69	76
21	93	59	68	80	66	69	87	69	76	81	69	74
22	92	70	75	79	63	67	92	71	81	92	75	81
23	96	73	77	75	60	63	92	71	78	88	67	73
24	84	62	71	77	58	66	84	68	75	87	72	75
25	---	---	---	75	57	64	87	70	76	92	69	76
26	---	---	---	76	59	67	87	70	77	90	70	76
27	---	---	---	74	55	62	87	68	75	90	70	74
28	---	---	---	79	58	65	84	70	74	90	71	77
29	---	---	---	82	66	72	88	69	76	90	66	76
30	---	---	---	78	68	72	85	68	74	98	72	79
31	---	---	---	82	70	75	84	68	75	---	---	---
MONTH	---	---	---	---	---	---	94	57	76	98	66	77

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC

LOCATION.--Lat 36°12'33", long 77°23'02", Halifax County, Hydrologic Unit 03010107, on right bank 50 ft upstream from bridge on U.S. 258, 3 mi downstream from Bridgers Creek, and 5.8 mi north of Scotland Neck.

DRAINAGE AREA.--8,671 mi^2.

PERIOD OF RECORD.--March 1974 to current year. Daily mean discharges, October 1940 to September 1956.

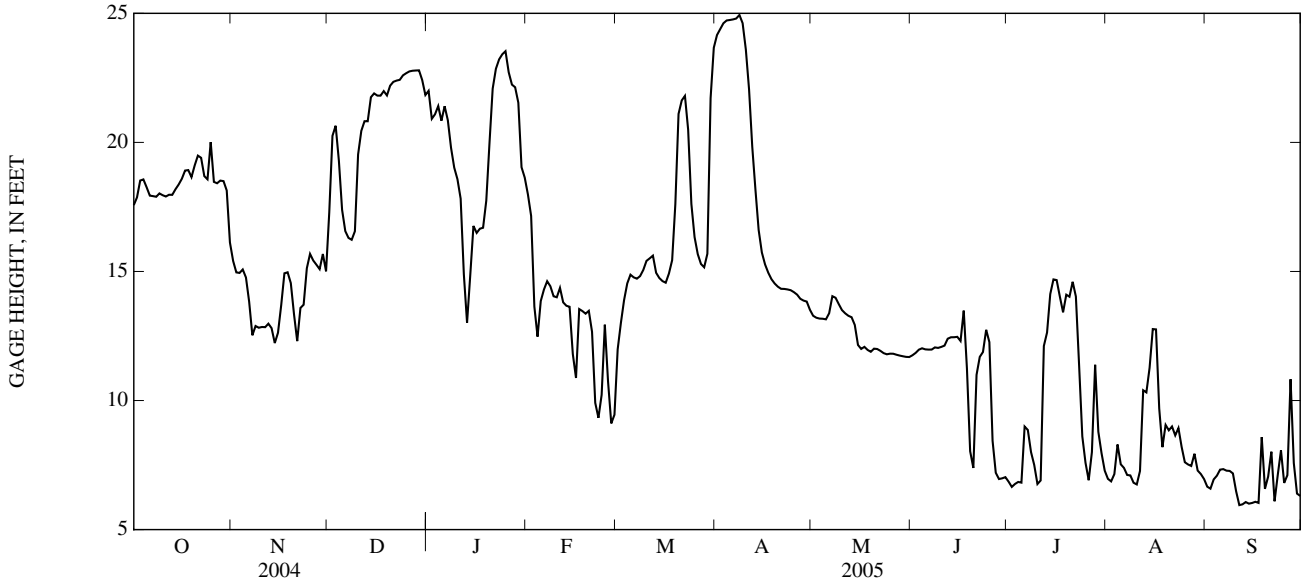
GAGE.--Water-stage recorder. Datum of gage is 5.77 ft above NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 41.98 ft, Aug. 19, 1940; minimum not determined

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 25.09 ft, Apr. 9; minimum gage height, 5.66 ft, Sept. 22.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17.57	15.41	17.29	22.00	17.98	11.98	24.16	13.28	11.75	6.86	6.97	6.66
2	17.87	14.96	20.25	20.91	17.15	13.00	24.39	13.21	11.85	6.65	6.87	6.59
3	18.52	14.94	20.65	21.09	13.64	13.89	24.61	13.17	11.97	6.77	7.15	6.94
4	18.57	15.08	19.29	21.41	12.47	14.54	24.72	13.17	12.02	6.85	8.30	7.09
5	18.26	14.77	17.39	20.84	13.85	14.88	24.74	13.15	11.98	6.82	7.53	7.32
6	17.94	13.83	16.56	21.40	14.30	14.77	24.76	13.38	11.97	8.99	7.39	7.34
7	17.92	12.53	16.30	20.86	14.62	14.72	24.80	14.04	11.97	8.86	7.12	7.28
8	17.89	12.89	16.23	19.79	14.43	14.82	24.94	13.98	12.06	8.00	7.10	7.27
9	18.02	12.82	16.56	19.02	14.04	15.06	24.62	13.74	12.04	7.50	6.82	7.18
10	17.95	12.85	19.53	18.57	14.00	15.41	23.59	13.50	12.08	6.76	6.75	6.48
11	17.90	12.84	20.45	17.82	14.36	15.51	22.06	13.38	12.13	6.90	7.27	5.95
12	17.97	12.98	20.82	14.89	13.80	15.61	19.83	13.28	12.39	12.11	10.40	5.98
13	17.97	12.80	20.82	13.01	13.67	14.95	18.16	13.23	12.45	12.64	10.31	6.07
14	18.18	12.23	21.75	14.85	13.63	14.75	16.61	12.93	12.45	14.12	11.27	6.00
15	18.37	12.62	21.90	16.76	11.80	14.63	15.74	12.15	12.47	14.69	12.77	6.03
16	18.59	13.70	21.81	16.49	10.87	14.56	15.27	12.00	12.31	14.67	12.76	6.08
17	18.91	14.93	21.81	16.66	13.54	14.92	14.95	12.08	13.48	14.02	9.70	6.03
18	18.93	14.97	21.99	16.69	13.46	15.44	14.70	11.96	11.23	13.42	8.19	8.58
19	18.65	14.55	21.82	17.74	13.36	17.61	14.53	11.89	8.04	14.10	9.06	6.58
20	19.11	13.34	22.20	19.96	13.47	21.10	14.41	12.01	7.39	14.02	8.85	7.05
21	19.49	12.30	22.35	22.08	12.66	21.63	14.33	12.00	11.00	14.60	8.99	8.02
22	19.40	13.59	22.39	22.85	9.91	21.80	14.32	11.92	11.69	14.03	8.65	6.10
23	18.69	13.71	22.42	23.22	9.33	20.49	14.30	11.84	11.88	11.36	8.93	7.12
24	18.57	15.12	22.60	23.41	10.22	17.62	14.27	11.79	12.74	8.61	8.20	8.07
25	20.01	15.68	22.68	23.53	12.94	16.33	14.20	11.81	12.26	7.59	7.61	6.81
26	18.47	15.43	22.75	22.72	10.74	15.67	14.10	11.81	8.44	6.91	7.52	7.11
27	18.42	15.26	22.78	22.24	9.11	15.29	13.94	11.78	7.20	8.00	7.46	10.82
28	18.52	15.09	22.78	22.14	9.45	15.16	13.87	11.74	6.96	11.38	7.94	7.58
29	18.50	15.68	22.79	21.54	---	15.68	13.83	11.71	6.99	8.79	7.29	6.40
30	18.14	15.01	22.42	19.04	---	21.71	13.52	11.69	7.03	7.96	7.15	6.31
31	16.12	---	21.84	18.64	---	23.67	---	11.69	---	7.28	6.96	---
MEAN	18.37	14.06	20.75	19.75	12.96	16.36	18.41	12.56	11.01	10.04	8.36	6.96
MAX	20.01	15.68	22.79	23.53	17.98	23.67	24.94	14.04	13.48	14.69	12.77	10.82
MIN	16.12	12.23	16.23	13.01	9.11	11.98	13.52	11.69	6.96	6.65	6.75	5.95



02081022 ROANOKE RIVER NEAR OAK CITY, NC

LOCATION.--Lat 36°00'49", long 77°12'55", Martin County, Hydrologic Unit 03010107, on right bank at bridge on State Highway 11-42, and 5.2 mi northeast of Oak City.

DRAINAGE AREA.--8,810 mi^2.

ELEVATION RECORDS

PERIOD OF RECORD.--July 1987 to current year. Occasional measurements, water years 1968, 1969, 1972, 1975, 1978, 1980, 1983, 1986.

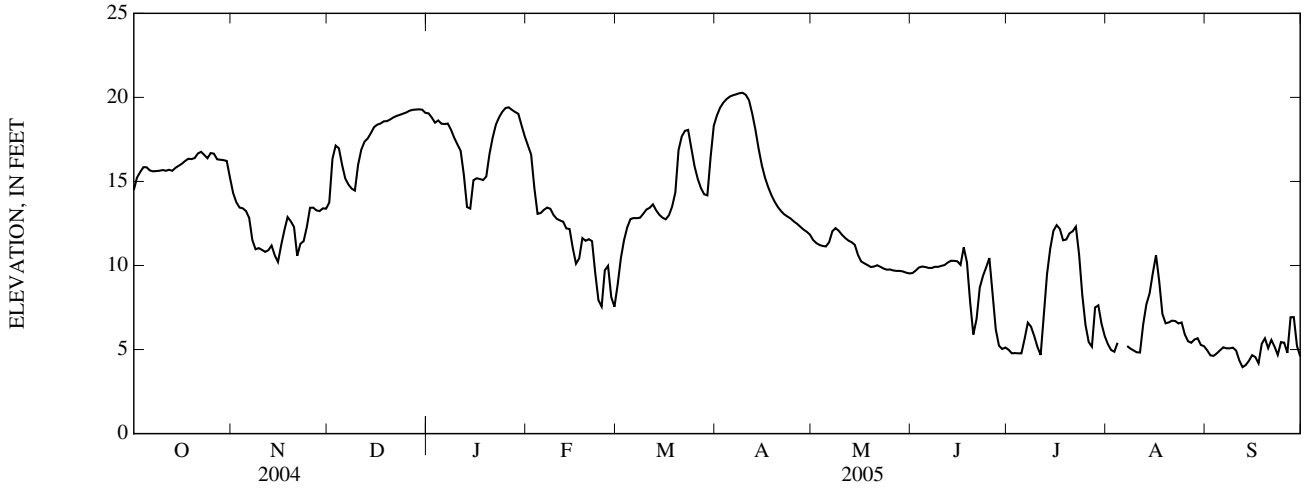
GAGE.--Water stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 22.07 ft, Sept. 19, 1999; minimum elevation, 2.31 ft, Nov. 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 20.31 ft, Apr. 9; minimum elevation, 3.88 ft, Sept. 12.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.49	14.31	13.74	19.05	17.14	8.86	18.94	11.51	9.55	4.99	5.31	4.95
2	15.23	13.76	16.34	18.80	16.60	10.43	19.40	11.33	9.69	4.78	4.97	4.65
3	15.56	13.45	17.14	18.49	14.61	11.52	19.69	11.22	9.88	4.79	4.87	4.62
4	15.85	13.40	16.97	18.63	13.07	12.28	19.90	11.16	9.94	4.77	5.40	4.78
5	15.84	13.24	15.99	18.43	13.12	12.76	20.05	11.13	9.91	4.77	---	4.96
6	15.66	12.84	15.17	18.42	13.31	12.82	20.13	11.39	9.86	5.64	---	5.13
7	15.60	11.51	14.81	18.44	13.45	12.81	20.18	12.04	9.85	6.60	5.21	5.07
8	15.62	10.97	14.57	18.07	13.37	12.84	20.25	12.22	9.92	6.36	5.06	5.07
9	15.64	11.03	14.46	17.60	13.00	13.08	20.27	12.06	9.92	5.80	4.95	5.11
10	15.68	10.93	15.99	17.20	12.77	13.33	20.15	11.83	9.98	5.16	4.84	4.94
11	15.64	10.81	16.90	16.82	12.68	13.43	19.82	11.64	10.03	4.68	4.82	4.35
12	15.69	10.91	17.36	15.39	12.60	13.64	19.03	11.48	10.17	7.08	6.49	3.95
13	15.63	11.19	17.56	13.48	12.20	13.28	18.07	11.39	10.28	9.50	7.69	4.08
14	15.81	10.60	17.88	13.39	12.17	13.02	16.94	11.23	10.28	11.01	8.34	4.33
15	15.93	10.21	18.23	15.07	11.03	12.84	15.96	10.63	10.25	12.07	9.53	4.67
16	16.05	11.22	18.38	15.19	10.10	12.75	15.21	10.24	10.04	12.40	10.62	4.55
17	16.22	12.11	18.45	15.14	10.43	12.99	14.65	10.12	11.08	12.17	9.06	4.18
18	16.35	12.88	18.57	15.08	11.63	13.51	14.17	10.02	10.19	11.50	7.12	5.34
19	16.33	12.62	18.59	15.29	11.47	14.34	13.79	9.91	7.82	11.54	6.56	5.67
20	16.39	12.29	18.68	16.63	11.56	16.86	13.48	9.94	5.89	11.91	6.61	5.08
21	16.66	10.57	18.81	17.61	11.45	17.67	13.23	10.01	6.81	12.04	6.72	5.57
22	16.76	11.29	18.90	18.38	9.55	18.01	13.04	9.92	8.68	12.31	6.69	5.17
23	16.57	11.45	18.96	18.82	7.93	18.07	12.91	9.82	9.37	10.65	6.55	4.68
24	16.38	12.29	19.03	19.14	7.56	16.97	12.79	9.75	9.89	8.24	6.61	5.44
25	16.69	13.43	19.10	19.36	9.72	15.90	12.62	9.76	10.44	6.46	5.89	5.41
26	16.65	13.44	19.20	19.41	9.98	15.15	12.48	9.71	8.33	5.45	5.50	4.80
27	16.32	13.28	19.26	19.26	8.11	14.60	12.31	9.68	6.20	5.17	5.40	6.92
28	16.29	13.24	19.27	19.13	7.55	14.24	12.14	9.68	5.23	7.51	5.60	6.93
29	16.27	13.40	19.29	19.02	---	14.17	12.01	9.65	5.03	7.63	5.67	5.21
30	16.22	13.38	19.27	18.34	---	16.44	11.83	9.57	5.12	6.53	5.28	4.60
31	15.24	---	19.08	17.69	---	18.32	---	9.53	---	5.80	5.20	---
MEAN	15.98	12.20	17.61	17.44	11.72	14.09	16.18	10.63	8.99	7.91	---	5.01
MAX	16.76	14.31	19.29	19.41	17.14	18.32	20.27	12.22	11.08	12.40	---	6.93
MIN	14.49	10.21	13.74	13.39	7.55	8.86	11.83	9.53	5.03	4.68	---	3.95



02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to 1973, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1998 to current year.
pH: March 1998 to current year.
WATER TEMPERATURE: March 1998 to current year.
DISSOLVED OXYGEN: March 1998 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources, to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Partial record site from October 1967 to September 1973. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	5160, March 29, 2003	52, September 17, 1999
pH, standard units	8.1, July 1, 2, 2002	6.1, September 17, 1999, September 20, 21, 2003
WATER TEMPERATURE, °C	31.0, August 1, 2002	2.0, January 28, 2004
DISSOLVED OXYGEN, mg/L	15.5, January 6, 7, 1999	2.4, September 24, 2003
DISSOLVED OXYGEN, PERCENT SATURATION,%	123, January 6, 7, 1999	28, September 24, 2003

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	14.5, September 27	95, March 23, April 4
pH, standard units	7.6, March 6, 8	6.6, November 15, 22-30
WATER TEMPERATURE, °C	30.8, July 28	3.9, January 30, 31
DISSOLVED OXYGEN, mg/L	12.2, February 1	5.0, August 15
DISSOLVED OXYGEN, PERCENT SATURATION,%	100, April 2	65, August 15, September 15, 16

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	105	101	103	113	108	109	109	104	106	107	104	106
2	105	101	102	116	106	110	108	103	105	106	104	105
3	105	102	103	113	106	109	104	103	104	108	104	105
4	105	102	103	114	106	109	107	103	104	110	103	106
5	109	103	105	114	106	108	105	103	104	107	105	106
6	110	103	105	112	105	108	106	104	105	109	105	106
7	111	103	105	113	105	109	106	105	105	108	105	106
8	111	103	105	120	104	110	107	105	106	109	105	106
9	111	103	105	118	104	109	107	106	107	110	105	106
10	111	104	106	114	104	109	109	104	107	111	105	106
11	112	104	106	116	106	109	105	103	105	112	105	107
12	112	104	106	116	106	110	104	102	103	111	105	106
13	112	105	107	115	106	109	105	102	103	112	106	109
14	111	106	107	115	105	109	106	103	104	119	106	111
15	110	105	107	111	101	105	105	103	104	116	101	106
16	109	105	106	113	100	105	105	104	105	105	97	100
17	110	105	106	110	103	105	106	105	105	103	97	100
18	109	106	107	109	102	105	106	105	105	106	100	103
19	110	106	107	106	102	104	106	105	105	108	102	104
20	111	106	108	108	103	105	106	104	105	107	102	104
21	110	99	104	109	104	106	105	103	104	104	97	102
22	106	98	101	116	104	108	104	102	103	101	99	101
23	107	102	103	110	104	106	103	101	102	101	100	100
24	109	103	105	110	104	106	104	101	102	---	---	---
25	109	104	106	108	104	106	102	100	101	---	---	---
26	106	105	105	109	104	106	102	101	101	---	---	---
27	112	105	106	110	104	106	102	100	101	---	---	---
28	111	105	107	109	103	105	104	101	102	---	---	---
29	111	105	107	109	104	106	104	102	103	---	---	---
30	111	106	107	108	103	105	105	103	104	---	---	---
31	110	106	107	---	---	---	106	103	104	---	---	---
MONTH	112	98	105	120	100	107	109	100	104	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	115	106	111	102	100	101	114	113	113
2	105	100	102	111	100	105	102	101	102	114	113	113
3	106	100	102	105	100	103	103	100	102	114	112	113
4	109	102	104	106	104	104	102	95	100	114	112	113
5	117	103	109	108	102	105	103	98	101	114	112	113
6	115	102	107	108	102	105	103	102	103	114	110	112
7	110	103	106	106	105	105	104	103	103	112	109	110
8	111	102	106	105	104	104	105	104	104	111	105	108
9	111	103	106	104	103	104	105	103	105	106	105	106
10	112	104	108	103	99	101	104	102	103	108	105	106
11	112	105	108	103	98	100	105	104	104	108	105	107
12	112	105	108	105	99	102	106	104	105	108	105	106
13	112	105	109	105	99	101	108	105	107	110	106	108
14	115	107	110	103	102	102	109	108	108	110	106	108
15	115	107	111	103	102	102	111	108	110	109	107	108
16	116	107	111	103	102	103	112	110	111	113	109	111
17	120	106	113	102	100	102	112	110	111	114	112	113
18	118	107	111	102	99	101	112	111	111	114	111	112
19	112	105	108	100	98	98	113	111	112	112	110	111
20	110	104	108	100	97	99	113	112	112	113	111	112
21	109	103	106	98	97	98	114	112	113	114	112	113
22	111	103	107	99	98	98	115	111	113	114	112	113
23	116	107	112	99	98	99	113	112	113	114	111	113
24	116	112	115	98	95	96	113	112	113	115	112	113
25	115	106	111	100	96	98	114	112	113	117	114	115
26	109	102	105	101	99	100	113	112	113	117	116	116
27	110	104	107	101	100	101	113	107	110	117	115	116
28	116	104	110	102	100	101	113	111	112	119	116	117
29	---	---	---	102	99	101	113	112	113	119	117	118
30	---	---	---	102	100	101	114	112	113	118	116	117
31	---	---	---	101	97	100	---	---	---	118	115	116
MONTH	---	---	---	115	95	102	115	95	108	119	105	112

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	118	116	117	124	122	123	123	122	122	138	130	134
2	117	114	116	124	122	123	125	122	123	135	133	134
3	117	115	116	125	123	124	125	123	124	136	133	135
4	117	113	115	127	124	126	125	123	124	138	132	136
5	116	114	115	128	126	126	---	---	---	138	133	135
6	115	113	114	129	121	125	---	---	---	135	133	134
7	115	113	114	123	108	117	120	117	119	133	130	131
8	114	111	113	117	103	110	118	116	117	133	129	131
9	113	112	112	122	108	114	118	116	118	133	130	131
10	113	111	112	122	103	110	119	117	118	133	130	131
11	112	110	111	109	97	104	119	118	119	134	130	132
12	112	110	111	127	102	115	120	118	119	142	134	137
13	112	111	112	126	108	113	119	113	116	143	139	141
14	112	110	111	124	106	113	118	112	115	143	138	141
15	110	106	107	121	106	110	118	113	115	142	137	139
16	107	103	105	118	101	106	119	112	115	141	140	140
17	104	101	102	113	106	109	120	111	114	142	139	140
18	105	99	101	121	107	111	114	111	113	142	136	139
19	109	99	105	118	106	109	116	114	115	138	124	134
20	108	103	104	118	106	109	125	114	119	135	120	124
21	113	108	111	117	106	109	133	119	126	138	134	137
22	112	102	107	116	105	108	128	125	126	141	124	132
23	110	102	106	114	106	109	129	125	128	137	122	126
24	111	103	107	119	107	114	129	121	127	143	131	140
25	111	105	107	121	112	115	128	122	125	142	122	131
26	113	106	110	122	121	121	135	126	132	139	120	124
27	114	107	109	123	121	122	135	131	133	145	123	135
28	120	114	119	125	119	123	134	131	133	135	117	123
29	122	120	121	123	113	117	135	130	133	125	117	119
30	123	121	122	120	112	116	133	130	132	143	125	134
31	---	---	---	122	119	121	138	131	135	---	---	---
MONTH	123	99	111	129	97	115	---	---	---	145	117	133

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.1	7.0	7.0	7.1	7.0	7.1	6.8	6.7	6.8	7.2	7.0	7.1
2	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8	7.2	7.0	7.1
3	7.0	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8	7.1	6.9	7.0
4	7.1	7.0	7.0	7.1	7.0	7.1	6.9	6.8	6.8	7.2	7.1	7.2
5	7.1	7.0	7.1	7.0	7.0	7.0	6.8	6.7	6.8	7.2	7.0	7.1
6	7.1	7.1	7.1	7.0	6.9	7.0	6.8	6.8	6.8	7.2	7.1	7.1
7	7.1	7.1	7.1	7.0	6.9	6.9	6.9	6.8	6.8	7.2	7.1	7.2
8	7.1	7.1	7.1	7.0	6.9	7.0	6.8	6.8	6.8	7.1	7.0	7.1
9	7.1	7.1	7.1	7.1	6.9	7.0	6.9	6.8	6.8	7.1	7.0	7.0
10	7.1	7.1	7.1	7.0	6.9	6.9	6.9	6.8	6.9	7.1	7.0	7.1
11	7.1	7.1	7.1	7.0	6.9	6.9	6.9	6.8	6.8	7.2	7.0	7.1
12	7.1	7.1	7.1	7.0	6.9	6.9	6.8	6.8	6.8	7.1	7.0	7.1
13	7.1	7.1	7.1	7.0	6.9	6.9	6.9	6.8	6.8	7.1	7.0	7.0
14	7.2	7.1	7.1	6.9	6.7	6.8	6.9	6.8	6.9	7.1	7.0	7.0
15	7.1	7.0	7.1	6.7	6.6	6.7	7.0	6.9	6.9	7.1	7.0	7.1
16	7.1	7.1	7.1	6.9	6.7	6.8	7.0	6.9	6.9	7.0	6.9	7.0
17	7.2	7.1	7.1	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.9	7.0
18	7.2	7.1	7.1	6.9	6.7	6.8	7.0	6.9	7.0	7.1	7.0	7.1
19	7.2	7.1	7.1	6.8	6.7	6.8	7.0	6.9	6.9	7.2	7.0	7.1
20	7.2	7.1	7.1	6.8	6.7	6.8	7.0	6.9	6.9	7.2	7.1	7.2
21	7.2	7.0	7.1	6.7	6.7	6.7	7.0	6.9	7.0	7.3	7.2	7.2
22	7.0	7.0	7.0	6.8	6.6	6.7	7.0	7.0	7.0	7.3	7.2	7.2
23	7.1	7.0	7.0	6.8	6.6	6.7	7.0	6.9	7.0	7.3	7.2	7.3
24	7.1	7.0	7.1	6.7	6.6	6.6	7.2	7.0	7.0	7.3	7.0	7.2
25	7.1	7.1	7.1	6.7	6.6	6.6	7.2	7.0	7.1	7.1	6.9	7.1
26	7.1	7.1	7.1	6.7	6.6	6.6	7.2	7.1	7.1	7.0	7.0	7.0
27	7.1	7.0	7.1	6.7	6.6	6.7	7.2	7.1	7.1	7.0	6.9	7.0
28	7.1	7.1	7.1	6.7	6.6	6.6	7.2	7.1	7.2	7.2	6.9	7.1
29	7.2	7.1	7.1	6.6	6.6	6.6	7.2	7.2	7.2	7.2	7.1	7.2
30	7.1	7.1	7.1	6.7	6.6	6.6	7.2	7.1	7.2	7.1	7.0	7.0
31	7.1	7.0	7.1	---	---	---	7.1	7.0	7.0	7.1	7.0	7.1
MONTH	7.2	7.0	7.1	7.1	6.6	6.8	7.2	6.7	6.9	7.3	6.9	7.1
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.1	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.2	7.2	7.2
2	7.4	7.3	7.3	7.3	7.2	7.3	7.4	7.3	7.3	7.3	7.2	7.2
3	7.4	7.3	7.3	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.2	7.2
4	7.3	7.2	7.2	7.5	7.4	7.4	7.3	7.2	7.2	7.3	7.2	7.2
5	7.3	7.2	7.3	7.5	7.4	7.5	7.4	7.2	7.2	7.3	7.2	7.2
6	7.4	7.3	7.4	7.6	7.4	7.5	7.4	7.4	7.4	7.3	7.2	7.2
7	7.4	7.4	7.4	7.5	7.5	7.5	7.4	7.3	7.4	7.3	7.1	7.2
8	7.4	7.1	7.4	7.6	7.5	7.5	7.4	7.3	7.3	7.1	7.1	7.1
9	7.4	7.3	7.4	7.5	7.4	7.5	7.4	7.3	7.3	7.2	7.1	7.1
10	7.4	7.4	7.4	7.4	7.3	7.3	7.3	7.1	7.1	7.3	7.1	7.2
11	7.4	7.4	7.4	7.4	7.3	7.4	7.2	7.1	7.1	7.3	7.1	7.2
12	7.5	7.4	7.4	7.5	7.4	7.4	7.1	7.0	7.0	7.3	7.1	7.2
13	7.5	7.4	7.4	7.4	7.4	7.4	7.0	7.0	7.0	7.3	7.1	7.2
14	7.5	7.4	7.4	7.5	7.4	7.4	7.0	7.0	7.0	7.2	7.1	7.1
15	7.4	7.3	7.4	7.5	7.4	7.5	7.1	7.0	7.1	7.2	7.1	7.1
16	7.3	7.3	7.3	7.5	7.5	7.5	7.2	7.1	7.2	7.2	7.1	7.1
17	7.4	7.3	7.3	7.5	7.4	7.5	7.2	7.2	7.2	7.2	7.0	7.1
18	7.5	7.4	7.5	7.4	7.3	7.4	7.3	7.2	7.2	7.2	7.0	7.1
19	7.5	7.4	7.4	7.4	7.3	7.3	7.3	7.2	7.2	7.2	7.1	7.1
20	7.5	7.4	7.5	7.5	7.4	7.5	7.3	7.2	7.2	7.2	7.1	7.1
21	7.5	7.4	7.5	7.5	7.4	7.5	7.3	7.2	7.2	7.2	7.1	7.1
22	7.4	7.3	7.4	7.5	7.4	7.4	7.3	7.2	7.2	7.2	7.1	7.1
23	7.3	7.3	7.3	7.4	7.3	7.3	7.3	7.2	7.2	7.3	7.2	7.2
24	7.3	7.3	7.3	7.3	7.1	7.2	7.3	7.2	7.2	7.3	7.1	7.2
25	7.5	7.3	7.4	7.1	7.0	7.1	7.2	7.2	7.2	7.3	7.2	7.2
26	7.4	7.4	7.4	7.1	7.1	7.1	7.3	7.2	7.2	7.3	7.2	7.2
27	7.4	7.3	7.3	7.1	7.1	7.1	7.3	7.2	7.3	7.3	7.2	7.2
28	7.3	7.2	7.3	7.2	7.1	7.2	7.3	7.2	7.2	7.3	7.2	7.2
29	---	---	---	7.2	7.1	7.2	7.3	7.2	7.2	7.3	7.2	7.2
30	---	---	---	7.3	7.1	7.2	7.3	7.2	7.2	7.2	7.2	7.2
31	---	---	---	7.3	7.3	7.3	---	---	---	7.3	7.2	7.2
MONTH	7.5	7.1	7.4	7.6	7.0	7.4	7.4	7.0	7.2	7.3	7.0	7.2

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	7.1	7.2	7.0	7.0	7.0	7.2	7.2	7.2	7.3	7.2	7.2
2	7.2	7.1	7.1	7.1	7.0	7.0	7.3	7.2	7.2	7.2	7.2	7.2
3	7.1	7.1	7.1	7.1	7.1	7.1	7.3	7.2	7.2	7.3	7.2	7.2
4	7.1	7.0	7.1	7.1	7.1	7.1	7.3	7.3	7.3	7.3	7.2	7.3
5	7.1	7.0	7.1	7.1	7.1	7.1	---	---	---	7.3	7.3	7.3
6	7.1	7.0	7.1	7.1	7.0	7.1	---	---	---	7.3	7.2	7.3
7	7.1	7.0	7.1	7.0	6.9	7.0	7.3	7.3	7.3	7.3	7.3	7.3
8	7.2	7.0	7.1	7.0	6.9	6.9	7.3	7.3	7.3	7.3	7.2	7.3
9	7.1	7.0	7.0	7.0	6.9	7.0	7.3	7.3	7.3	7.3	7.2	7.3
10	7.1	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.3	7.2	7.3
11	7.1	7.0	7.0	7.0	7.0	7.0	7.3	7.3	7.3	7.3	7.3	7.3
12	7.1	7.0	7.0	7.1	7.0	7.0	7.3	7.2	7.3	7.3	7.2	7.3
13	7.1	7.0	7.0	7.1	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.3
14	7.1	6.9	7.0	7.1	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.3
15	7.0	6.9	7.0	7.2	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.3
16	7.0	6.9	6.9	7.1	7.1	7.1	7.2	7.0	7.1	7.3	7.2	7.3
17	7.0	6.9	6.9	7.1	7.1	7.1	7.1	7.1	7.1	7.3	7.2	7.3
18	7.0	6.9	7.0	7.1	7.1	7.1	7.2	7.1	7.1	7.3	7.2	7.2
19	7.0	6.9	7.0	7.2	7.1	7.1	7.2	7.1	7.1	7.3	7.2	7.2
20	6.9	6.9	6.9	7.2	7.1	7.1	7.2	7.1	7.2	7.2	7.2	7.2
21	7.0	6.9	7.0	7.2	7.1	7.1	7.2	7.1	7.1	7.3	7.2	7.3
22	7.0	7.0	7.0	7.2	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.2
23	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.1	7.2	7.3	7.2	7.2
24	7.0	7.0	7.0	7.2	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.2
25	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.2	7.2	7.3	7.2	7.2
26	7.1	7.0	7.0	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.2
27	7.0	7.0	7.0	7.2	7.2	7.2	7.2	7.2	7.2	7.3	7.2	7.3
28	7.0	7.0	7.0	7.3	7.2	7.2	7.3	7.2	7.2	7.3	7.2	7.3
29	7.0	7.0	7.0	7.2	7.2	7.2	7.3	7.2	7.2	7.3	7.3	7.3
30	7.0	7.0	7.0	7.2	7.1	7.2	7.2	7.2	7.2	7.4	7.3	7.3
31	---	---	---	7.2	7.2	7.2	7.2	7.2	7.2	---	---	---
MONTH	7.2	6.9	7.0	7.3	6.9	7.1	---	---	---	7.4	7.2	7.3

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	23.5	23.6	19.1	18.5	18.8	12.7	12.2	12.5	7.6	6.8	7.2
2	23.8	23.5	23.6	19.2	18.8	19.0	12.7	12.4	12.6	7.8	7.3	7.5
3	23.8	23.5	23.6	19.4	18.8	19.0	12.7	12.2	12.4	8.1	7.8	7.9
4	23.7	23.4	23.6	19.0	18.7	18.8	12.4	11.9	12.1	8.6	8.0	8.2
5	23.5	22.9	23.2	18.8	17.8	18.4	11.9	11.5	11.6	8.9	8.6	8.7
6	23.0	22.4	22.8	17.8	17.3	17.6	11.8	11.5	11.6	9.2	8.8	9.0
7	22.7	21.9	22.4	17.3	16.7	17.0	12.4	11.7	12.1	9.5	9.1	9.3
8	22.4	21.7	22.1	16.8	16.3	16.6	12.9	12.4	12.7	9.9	9.5	9.7
9	22.3	21.7	22.0	16.4	15.8	16.1	12.9	12.7	12.8	9.8	9.5	9.7
10	22.3	21.8	22.1	15.8	15.0	15.4	13.1	12.8	12.9	9.7	9.4	9.5
11	22.2	21.8	22.0	15.3	14.5	14.9	13.1	12.8	13.0	9.4	9.1	9.3
12	22.0	21.2	21.6	15.6	14.6	15.2	12.8	12.2	12.5	9.4	9.1	9.3
13	21.6	21.0	21.4	15.5	14.9	15.2	12.3	11.8	12.0	10.3	9.3	9.8
14	21.6	20.8	21.2	14.9	13.8	14.4	11.9	11.2	11.4	11.2	10.3	10.7
15	21.0	20.3	20.7	13.8	12.9	13.2	11.2	10.3	10.6	11.1	10.0	10.4
16	20.5	20.1	20.3	13.3	12.5	13.0	10.3	9.6	9.8	10.3	8.9	9.6
17	20.2	19.6	19.9	13.6	12.9	13.3	9.6	9.3	9.4	8.9	8.2	8.5
18	19.9	19.2	19.6	13.7	13.2	13.5	9.6	9.3	9.5	8.2	7.2	7.8
19	19.7	19.4	19.5	13.9	13.4	13.8	9.6	9.3	9.4	7.2	5.8	6.6
20	20.0	19.7	19.8	14.3	13.8	14.1	9.4	8.9	9.2	6.4	5.8	6.2
21	19.9	19.4	19.6	14.9	14.2	14.6	8.9	8.3	8.6	6.4	5.9	6.1
22	19.4	19.0	19.2	15.2	14.6	14.8	8.3	7.9	8.1	6.5	5.8	6.1
23	19.1	18.6	18.9	15.0	14.7	14.8	8.4	8.0	8.2	6.5	6.0	6.3
24	18.6	17.9	18.3	15.1	14.7	15.0	8.6	8.4	8.5	6.0	5.4	5.6
25	18.2	17.8	18.0	15.4	14.9	15.2	8.6	8.2	8.3	5.4	5.0	5.1
26	18.0	17.7	17.8	14.9	14.1	14.5	8.2	7.0	7.5	5.2	4.7	4.9
27	17.7	17.5	17.6	14.1	12.9	13.5	7.0	6.4	6.6	5.2	4.9	5.1
28	18.0	17.6	17.8	13.3	12.9	13.2	6.4	6.1	6.2	5.1	4.6	4.8
29	18.1	17.8	17.9	13.3	12.8	13.1	6.3	5.9	6.1	4.6	4.2	4.3
30	18.1	17.9	18.0	13.0	12.3	12.7	6.6	6.2	6.4	4.4	3.9	4.1
31	18.6	18.1	18.4	---	---	---	6.8	6.4	6.6	4.1	3.9	4.0
MONTH	24.0	17.5	20.5	19.4	12.3	15.3	13.1	5.9	10.0	11.2	3.9	7.5
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	4.0	4.1	7.2	6.6	6.9	11.6	11.0	11.2	16.3	15.8	16.0
2	4.4	4.0	4.3	6.6	6.1	6.4	11.6	11.3	11.5	16.7	15.8	16.3
3	4.5	4.3	4.4	6.4	5.9	6.2	11.6	10.9	11.2	17.3	16.3	16.8
4	4.7	4.1	4.3	6.1	5.8	5.9	11.8	11.3	11.6	17.4	16.6	17.0
5	4.9	4.4	4.7	6.4	5.8	6.1	12.2	11.3	11.7	17.3	16.6	16.9
6	5.5	4.7	5.1	6.6	5.8	6.3	12.9	11.8	12.3	16.6	15.1	16.0
7	5.7	5.0	5.3	7.0	6.3	6.6	13.5	12.4	12.8	15.4	14.8	15.1
8	6.1	5.2	5.6	7.8	7.0	7.4	13.5	13.0	13.2	16.2	15.2	15.6
9	6.7	5.7	6.2	7.5	7.2	7.4	13.8	13.1	13.4	17.3	16.1	16.8
10	7.3	6.2	6.7	7.4	7.2	7.3	14.1	13.5	13.8	17.8	16.9	17.4
11	6.9	6.4	6.6	7.8	7.2	7.6	14.4	13.6	14.0	18.4	17.3	17.8
12	6.4	5.8	6.1	7.9	7.4	7.7	14.5	13.8	14.2	19.0	17.8	18.4
13	6.6	5.7	6.1	8.2	7.6	7.9	13.8	12.5	13.4	19.3	18.5	18.9
14	6.8	6.0	6.4	8.3	7.9	8.1	12.9	12.4	12.7	19.7	18.3	18.9
15	7.2	6.3	6.7	8.2	7.7	7.9	13.5	12.8	13.1	19.6	18.2	18.9
16	7.8	6.7	7.1	8.2	7.8	7.9	13.7	12.8	13.2	20.8	19.4	20.1
17	8.2	7.5	7.8	8.1	7.4	7.8	13.4	12.6	13.0	21.3	20.4	20.8
18	8.0	7.1	7.4	7.5	7.2	7.4	14.0	12.9	13.4	21.4	20.1	20.8
19	7.1	6.7	6.8	7.9	7.4	7.6	14.9	13.5	14.2	20.5	19.8	20.0
20	7.1	6.5	6.8	8.3	7.4	7.9	15.9	14.5	15.3	20.6	19.6	20.0
21	7.2	6.5	6.9	8.8	7.7	8.2	16.9	15.7	16.3	19.9	19.0	19.5
22	7.4	6.9	7.2	9.2	8.7	8.9	17.3	16.6	16.9	20.6	19.3	20.0
23	8.0	7.3	7.7	9.6	9.0	9.2	17.8	16.2	17.3	21.5	20.5	20.9
24	8.2	7.7	8.0	10.1	9.6	9.8	16.3	15.6	16.0	21.4	20.3	20.8
25	7.7	6.5	7.2	10.4	10.1	10.2	16.2	15.4	15.8	20.7	20.1	20.4
26	6.8	6.3	6.6	10.3	9.6	10.1	16.0	15.0	15.5	20.4	19.5	20.0
27	7.1	6.6	6.9	9.7	9.5	9.6	15.6	14.8	15.2	21.1	19.7	20.4
28	7.2	6.8	7.0	10.3	9.7	10.1	15.5	14.7	15.1	22.0	20.8	21.3
29	---	---	---	11.1	10.3	10.7	15.8	15.3	15.6	22.0	21.0	21.5
30	---	---	---	11.5	11.1	11.3	16.1	15.4	15.8	21.6	21.2	21.4
31	---	---	---	11.4	10.7	11.1	---	---	---	22.2	21.2	21.7
MONTH	8.2	4.0	6.3	11.5	5.8	8.2	17.8	10.9	14.0	22.2	14.8	18.9

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.8	21.3	21.6	27.1	26.1	26.6	27.7	27.0	27.4	28.4	27.9	28.2
2	21.4	20.2	21.1	27.6	26.9	27.2	28.2	27.2	27.7	28.5	27.8	28.2
3	20.5	20.0	20.2	28.1	27.0	27.5	29.1	27.8	28.4	28.3	27.6	28.0
4	21.0	20.0	20.5	28.1	27.1	27.6	29.7	28.8	29.2	28.0	27.2	27.7
5	22.0	20.9	21.4	27.7	27.2	27.4	---	---	---	27.2	26.5	26.8
6	22.8	21.8	22.3	28.0	27.2	27.6	---	---	---	26.7	25.8	26.1
7	23.4	22.1	22.6	28.2	27.3	27.8	29.4	28.7	29.2	26.0	25.4	25.7
8	23.5	22.1	22.7	28.6	27.1	27.8	28.9	28.1	28.4	26.1	25.3	25.7
9	23.9	22.6	23.2	28.4	27.4	28.0	28.1	27.3	27.8	26.2	25.6	26.0
10	24.8	23.5	24.2	28.2	27.4	27.8	27.9	27.3	27.5	26.2	25.4	25.8
11	24.4	23.4	23.8	29.4	28.0	28.7	28.5	27.4	27.9	25.5	24.8	25.2
12	24.6	23.4	23.9	29.1	27.2	28.5	29.4	28.4	28.9	25.5	24.8	25.1
13	24.8	23.5	24.2	28.1	27.2	27.6	28.8	28.1	28.4	25.6	24.8	25.2
14	25.1	23.8	24.4	28.1	27.1	27.6	29.3	28.7	28.9	25.8	25.2	25.5
15	27.3	24.5	25.9	27.7	26.8	27.3	28.9	28.3	28.6	26.2	25.4	25.8
16	27.4	26.0	26.8	28.3	27.3	27.8	29.2	28.1	28.6	26.6	25.7	26.1
17	27.5	25.2	26.3	28.3	27.4	27.9	29.0	28.3	28.5	27.2	26.1	26.6
18	26.4	25.1	25.7	28.3	27.2	27.5	28.7	28.0	28.3	27.5	26.6	27.1
19	26.4	25.6	26.1	28.5	27.4	27.9	28.5	27.6	27.9	27.8	26.8	27.3
20	25.6	24.7	24.9	28.8	28.0	28.4	29.1	27.6	28.3	27.5	26.6	27.1
21	24.8	24.3	24.6	29.1	28.2	28.6	29.6	28.2	28.9	27.1	26.7	26.8
22	24.8	24.1	24.4	29.0	28.3	28.7	30.0	29.0	29.5	26.7	25.6	26.1
23	25.7	24.4	25.2	28.7	28.2	28.5	29.7	28.6	28.9	26.7	25.8	26.3
24	25.9	25.3	25.7	29.2	28.2	28.7	29.2	28.4	28.8	26.9	26.4	26.7
25	25.9	24.8	25.2	29.2	28.1	28.6	28.6	27.5	27.9	26.7	26.0	26.4
26	25.2	24.7	25.0	29.8	29.0	29.4	27.8	27.2	27.6	26.4	25.7	26.1
27	26.1	24.8	25.4	30.6	29.6	30.1	27.7	27.1	27.4	26.4	25.6	26.0
28	27.1	25.9	26.4	30.8	29.3	30.3	28.0	27.0	27.5	25.8	25.4	25.6
29	26.2	25.6	26.0	29.3	28.5	28.7	28.2	27.4	27.8	25.8	24.9	25.4
30	26.7	25.5	26.2	28.5	28.0	28.3	28.5	27.7	28.1	25.3	24.2	24.8
31	---	---	---	28.1	27.4	27.7	28.8	28.3	28.5	---	---	---
MONTH	27.5	20.0	24.2	30.8	26.1	28.1	---	---	---	28.5	24.2	26.3

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	6.3	6.7	7.4	6.6	7.0	9.4	8.9	9.2	---	---	---
2	7.0	6.5	6.6	7.6	6.7	7.2	9.4	8.7	9.0	---	---	---
3	6.7	6.4	6.6	7.5	7.1	7.3	9.1	8.8	9.0	---	---	---
4	7.0	6.5	6.7	7.6	7.1	7.4	9.3	8.8	9.0	---	---	---
5	7.0	6.3	6.6	7.8	7.3	7.5	9.2	8.8	9.0	---	---	---
6	7.0	6.5	6.6	7.6	7.3	7.4	9.4	8.9	9.2	---	---	---
7	7.0	6.5	6.7	7.8	7.3	7.7	9.4	9.0	9.2	---	---	---
8	7.0	6.7	6.8	8.3	7.5	7.8	9.3	8.9	9.0	---	---	---
9	7.2	6.6	6.8	8.6	7.7	8.1	9.2	8.8	8.9	---	---	---
10	7.2	6.6	6.8	8.6	8.0	8.4	9.4	8.8	9.0	---	---	---
11	7.0	6.6	6.7	8.7	8.3	8.5	9.0	8.6	8.8	---	---	---
12	7.1	6.7	6.8	8.7	8.3	8.5	8.8	8.5	8.7	---	---	---
13	7.0	6.6	6.8	8.7	8.2	8.5	9.2	8.5	8.7	---	---	---
14	7.1	6.7	6.9	8.6	8.3	8.5	9.2	8.8	9.0	---	---	---
15	6.9	6.6	6.7	9.1	8.3	8.6	9.6	9.0	9.3	---	---	---
16	7.0	6.7	6.8	9.5	8.4	8.9	9.8	9.3	9.5	---	---	---
17	7.2	6.7	6.9	9.1	8.7	8.9	9.8	9.5	9.6	---	---	---
18	7.3	6.9	7.1	9.1	8.7	8.9	9.9	9.4	9.6	---	---	---
19	7.4	7.1	7.2	9.1	8.7	8.9	9.9	9.4	9.6	---	---	---
20	7.3	6.9	7.1	9.0	8.5	8.8	9.8	9.4	9.6	---	---	---
21	7.3	6.6	6.9	8.8	8.5	8.7	10.1	9.5	9.8	---	---	---
22	7.0	6.7	6.9	8.9	8.4	8.6	---	---	---	---	---	---
23	7.1	6.8	7.0	8.8	8.4	8.6	---	---	---	---	---	---
24	7.2	6.9	7.1	8.9	8.3	8.6	---	---	---	---	---	---
25	7.3	7.0	7.2	8.5	8.2	8.4	---	---	---	11.6	11.0	11.4
26	7.4	7.0	7.2	8.6	8.3	8.4	---	---	---	11.6	11.2	11.4
27	7.5	7.0	7.2	9.0	8.6	8.7	---	---	---	11.6	11.2	11.3
28	7.6	7.1	7.3	9.4	8.8	9.1	---	---	---	11.7	11.2	11.4
29	7.6	7.0	7.3	9.3	8.9	9.1	---	---	---	---	---	---
30	7.4	6.9	7.1	9.4	9.0	9.2	---	---	---	---	---	---
31	7.3	6.8	7.0	---	---	---	---	---	---	12.1	11.5	11.8
MONTH	7.6	6.3	6.9	9.5	6.6	8.3	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	12.2	11.6	11.8	---	---	---	10.8	10.2	10.6	8.4	7.8	8.1
2	12.1	11.7	11.9	---	---	---	10.8	10.3	10.6	8.5	7.8	8.1
3	11.9	11.6	11.8	11.7	11.2	11.5	10.6	10.2	10.4	8.7	7.9	8.2
4	11.8	11.6	11.7	11.8	11.5	11.7	10.4	9.9	10.3	8.6	7.9	8.2
5	11.9	11.6	11.8	11.8	11.6	11.7	10.4	9.9	10.2	8.8	7.9	8.3
6	12.0	11.7	11.8	11.9	11.6	11.7	10.2	9.8	10.1	8.9	8.0	8.4
7	12.1	11.8	11.9	11.8	11.6	11.7	10.1	9.7	9.9	8.8	8.0	8.4
8	11.9	11.6	11.8	11.9	11.3	11.5	10.0	9.7	9.8	8.3	7.8	8.1
9	11.8	11.4	11.6	11.5	11.2	11.4	10.0	9.6	9.7	8.8	8.0	8.3
10	11.6	11.2	11.4	11.4	11.1	11.2	9.7	9.0	9.2	8.9	7.9	8.3
11	11.4	11.1	11.3	11.6	11.2	11.4	9.3	8.8	9.1	8.5	7.8	8.1
12	11.6	11.2	11.4	11.5	11.2	11.3	8.9	7.9	8.4	8.4	7.7	8.0
13	11.7	11.5	11.6	11.5	11.2	11.4	8.4	7.9	8.2	---	---	---
14	11.7	11.4	11.6	---	---	---	8.4	8.1	8.3	---	---	---
15	11.6	11.3	11.4	---	---	---	9.0	8.2	8.6	---	---	---
16	11.4	11.2	11.3	11.2	11.0	11.1	9.4	8.8	9.0	---	---	---
17	11.3	10.9	11.1	11.2	10.9	11.0	9.4	8.8	9.1	---	---	---
18	11.5	10.9	11.3	11.2	10.9	11.1	9.5	8.9	9.2	7.7	6.8	7.3
19	11.5	11.2	11.4	11.3	11.2	11.2	9.5	8.8	9.1	7.8	7.1	7.4
20	11.6	11.3	11.4	11.4	11.2	11.3	9.3	8.7	9.0	7.7	7.1	7.4
21	11.6	11.3	11.4	11.4	11.1	11.2	9.2	8.3	8.8	7.5	7.1	7.3
22	11.4	11.2	11.3	11.3	11.0	11.2	8.9	8.1	8.5	7.7	7.0	7.4
23	11.3	10.9	11.1	11.2	10.9	11.1	8.7	8.1	8.3	7.9	7.3	7.6
24	11.1	10.7	10.9	11.0	10.4	10.6	8.6	8.0	8.3	8.0	7.2	7.5
25	11.4	10.9	11.2	10.4	10.2	10.3	8.4	8.0	8.2	7.8	7.1	7.5
26	11.5	11.2	11.4	10.4	10.2	10.3	8.8	8.1	8.5	7.7	7.0	7.3
27	11.4	11.2	11.3	10.6	10.4	10.4	9.1	8.3	8.7	7.8	7.2	7.5
28	11.4	11.0	11.2	10.7	10.3	10.4	8.9	8.4	8.7	7.8	7.2	7.4
29	---	---	---	10.4	10.0	10.3	8.9	8.3	8.6	7.5	6.9	7.2
30	---	---	---	10.7	10.0	10.2	8.9	8.1	8.5	7.3	6.8	7.1
31	---	---	---	10.8	10.4	10.6	---	---	---	7.2	6.7	7.0
MONTH	12.2	10.7	11.5	---	---	---	10.8	7.9	9.1	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.5	6.8	6.3	6.0	6.1	5.8	5.6	5.7	5.7	5.5	5.6
2	6.8	6.4	6.6	6.4	5.9	6.1	5.9	5.7	5.8	5.8	5.5	5.7
3	6.6	6.2	6.4	6.5	6.1	6.3	5.9	5.6	5.7	6.3	5.7	6.0
4	6.4	6.1	6.2	6.6	6.3	6.4	5.9	5.7	5.8	6.1	5.8	5.9
5	6.6	6.1	6.3	6.7	6.3	6.5	---	---	---	6.4	5.8	5.9
6	6.6	6.1	6.3	6.7	6.3	6.5	---	---	---	6.1	5.7	5.9
7	7.1	5.9	6.6	6.4	5.8	6.1	6.0	5.6	5.8	6.7	6.0	6.1
8	7.1	6.6	6.8	6.2	5.7	5.9	6.2	5.8	6.0	6.6	5.9	6.0
9	6.9	6.3	6.6	6.2	5.9	6.0	6.2	5.7	6.1	6.1	5.8	6.0
10	6.9	6.2	6.5	6.2	6.0	6.1	6.3	6.0	6.2	6.2	5.8	5.9
11	6.8	6.3	6.5	6.3	6.0	6.1	6.3	6.0	6.1	6.1	5.9	6.0
12	6.7	6.2	6.4	6.2	5.8	6.0	6.4	5.6	6.0	6.1	5.7	5.9
13	6.7	6.1	6.4	6.1	5.6	5.8	5.8	5.1	5.5	6.0	5.5	5.8
14	6.7	6.0	6.3	5.9	5.6	5.7	5.7	5.2	5.4	5.9	5.4	5.6
15	6.6	5.8	6.2	5.7	5.4	5.5	5.9	5.0	5.5	6.0	5.3	5.5
16	6.4	5.8	6.1	5.6	5.4	5.5	5.9	5.4	5.7	---	---	---
17	6.4	5.5	5.9	5.6	5.4	5.5	6.0	5.5	5.8	---	---	---
18	6.2	5.7	6.0	5.6	5.4	5.5	6.0	5.6	5.8	---	---	---
19	6.2	5.5	5.8	5.8	5.4	5.6	6.3	5.7	5.9	---	---	---
20	6.1	5.7	5.9	5.7	5.2	5.6	6.3	5.5	5.9	---	---	---
21	6.5	5.8	6.2	5.6	5.3	5.5	6.0	5.4	5.7	---	---	---
22	6.4	5.9	6.1	5.6	5.3	5.5	6.1	5.7	5.9	---	---	---
23	6.5	5.8	6.2	5.6	5.3	5.4	6.3	5.6	5.8	---	---	---
24	6.4	5.9	6.2	5.6	5.2	5.4	6.2	5.6	5.9	---	---	---
25	6.5	5.9	6.2	5.7	5.2	5.5	6.3	5.8	5.9	---	---	---
26	6.6	6.0	6.3	5.8	5.5	5.6	6.3	5.8	6.0	---	---	---
27	6.3	6.0	6.1	5.8	5.6	5.7	6.2	5.8	5.9	---	---	---
28	6.3	5.9	6.1	5.8	5.2	5.5	6.3	5.8	6.0	6.3	6.1	6.2
29	6.4	6.0	6.2	5.5	5.2	5.3	6.1	5.7	5.8	6.5	6.3	6.4
30	6.4	6.1	6.2	5.6	5.2	5.4	6.0	5.6	5.7	6.7	6.3	6.5
31	---	---	---	5.7	5.4	5.6	5.8	5.4	5.6	---	---	---
MONTH	7.1	5.5	6.3	6.7	5.2	5.8	---	---	---	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	86	75	80	80	71	76	89	84	87	---	---	---
2	83	77	78	82	72	78	89	82	85	---	---	---
3	80	76	78	82	76	80	86	82	84	---	---	---
4	83	77	79	82	76	80	87	82	84	---	---	---
5	83	74	77	83	78	80	85	82	83	---	---	---
6	81	75	77	80	76	78	87	82	85	---	---	---
7	81	75	77	81	76	80	88	83	86	---	---	---
8	81	77	78	86	77	80	88	84	85	---	---	---
9	83	76	78	88	79	82	87	83	84	---	---	---
10	83	76	78	87	80	84	89	83	86	---	---	---
11	80	76	77	86	82	85	85	81	83	---	---	---
12	80	76	78	88	82	85	83	80	82	---	---	---
13	80	74	77	87	82	84	85	79	81	---	---	---
14	81	75	78	84	81	83	84	81	82	---	---	---
15	77	74	75	87	79	82	86	82	83	---	---	---
16	77	74	76	91	80	85	86	82	84	---	---	---
17	79	74	76	88	83	85	86	83	84	---	---	---
18	80	75	78	88	84	86	87	82	85	---	---	---
19	81	77	79	88	84	86	87	82	84	---	---	---
20	80	76	78	87	83	86	85	82	83	---	---	---
21	80	72	76	87	83	85	87	82	84	---	---	---
22	76	73	75	89	83	85	---	---	---	---	---	---
23	76	74	75	87	83	85	---	---	---	---	---	---
24	77	73	75	89	83	85	---	---	---	---	---	---
25	78	74	76	85	82	84	---	---	---	91	87	89
26	78	74	76	84	82	83	---	---	---	91	88	90
27	79	74	76	85	83	84	---	---	---	91	88	89
28	80	75	77	90	84	87	---	---	---	91	87	89
29	80	74	77	88	85	87	---	---	---	---	---	---
30	78	73	75	89	84	87	---	---	---	---	---	---
31	77	73	74	---	---	---	---	---	---	93	88	90
MONTH	86	72	77	91	71	83	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	93	89	91	---	---	---	99	93	97	86	79	83
2	93	90	91	---	---	---	100	94	97	87	79	83
3	92	89	91	95	91	93	97	93	95	91	81	85
4	92	89	90	95	92	94	96	91	94	90	82	86
5	93	90	92	96	93	94	96	92	94	92	82	86
6	95	91	93	97	93	95	97	93	94	91	82	85
7	96	93	94	97	94	95	97	92	94	88	80	83
8	96	93	94	98	94	96	96	92	94	85	78	82
9	96	92	94	96	93	95	96	92	94	91	82	86
10	96	92	94	95	92	93	94	87	89	94	83	87
11	94	91	92	98	93	95	91	86	88	91	82	86
12	94	91	92	97	93	95	88	77	82	91	81	86
13	96	92	93	98	94	96	81	76	78	---	---	---
14	96	92	94	---	---	---	80	76	78	---	---	---
15	96	92	94	---	---	---	87	78	82	---	---	---
16	95	92	93	95	93	94	90	83	87	---	---	---
17	96	91	94	95	91	93	90	83	86	---	---	---
18	96	91	94	94	91	93	92	84	88	87	76	82
19	95	92	94	95	93	94	94	87	90	87	78	82
20	96	92	94	97	93	96	94	87	90	86	78	81
21	96	93	94	97	93	95	95	86	90	83	77	79
22	95	92	94	98	95	97	92	84	88	86	76	81
23	94	91	93	98	95	96	92	83	87	90	81	85
24	94	91	92	97	92	94	88	81	84	91	80	84
25	96	90	93	93	91	92	85	80	83	87	78	83
26	94	91	93	93	90	92	89	82	85	85	77	81
27	94	92	93	93	91	91	91	82	86	88	79	83
28	94	90	93	95	92	93	89	84	86	89	81	84
29	---	---	---	94	91	93	90	83	86	86	78	82
30	---	---	---	98	91	93	90	82	85	83	77	80
31	---	---	---	99	94	96	---	---	---	83	76	79
MONTH	96	89	93	---	---	---	100	76	88	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	80	74	77	78	74	77	74	71	72	74	70	72
2	77	71	75	81	74	77	76	72	74	75	71	73
3	73	69	71	83	77	80	77	73	74	81	73	77
4	72	67	70	85	79	82	78	74	76	78	73	75
5	74	68	71	85	80	82	---	---	---	81	72	74
6	77	70	73	85	80	83	---	---	---	76	70	73
7	84	68	76	82	74	78	79	74	77	83	73	75
8	84	76	80	80	72	76	80	75	77	81	72	74
9	82	74	78	80	75	77	80	73	78	76	71	74
10	83	74	78	80	76	78	81	76	78	77	71	73
11	82	74	77	83	77	80	81	76	79	75	71	73
12	81	73	76	81	73	78	83	73	78	75	69	72
13	81	73	76	77	71	74	75	66	71	73	67	70
14	82	71	75	75	71	73	75	68	70	73	66	69
15	82	73	77	73	68	70	77	65	72	73	65	68
16	81	72	76	72	68	71	76	69	73	---	---	---
17	80	69	74	72	68	70	78	71	75	---	---	---
18	77	70	74	72	68	70	78	72	75	---	---	---
19	77	68	72	74	70	71	81	73	76	---	---	---
20	74	69	72	74	67	72	82	71	76	---	---	---
21	79	70	74	73	69	71	79	70	74	---	---	---
22	77	71	74	73	69	71	81	74	78	---	---	---
23	79	70	76	73	69	70	82	73	76	---	---	---
24	79	72	76	73	67	70	81	72	76	---	---	---
25	80	72	76	75	67	71	81	74	76	---	---	---
26	80	73	76	76	72	74	80	74	76	---	---	---
27	77	73	75	77	74	76	79	73	75	---	---	---
28	79	74	76	78	68	73	80	73	76	78	75	76
29	79	74	76	72	67	69	78	72	75	80	76	78
30	79	75	77	72	67	70	77	71	74	81	77	79
31	---	---	---	73	69	71	75	70	72	---	---	---
MONTH	84	67	75	85	67	74	---	---	---	---	---	---

02081028 ROANOKE RIVER AT HAMILTON, NC

LOCATION.--Lat 35°56'51", long 77°12'09", Martin County, Hydrologic Unit 03010107, on downstream side of public boat ramp, 0.5 mi east of Hamilton.

DRAINAGE AREA.--8,890 mi^2.

PERIOD OF RECORD.--August 1986 to current year.

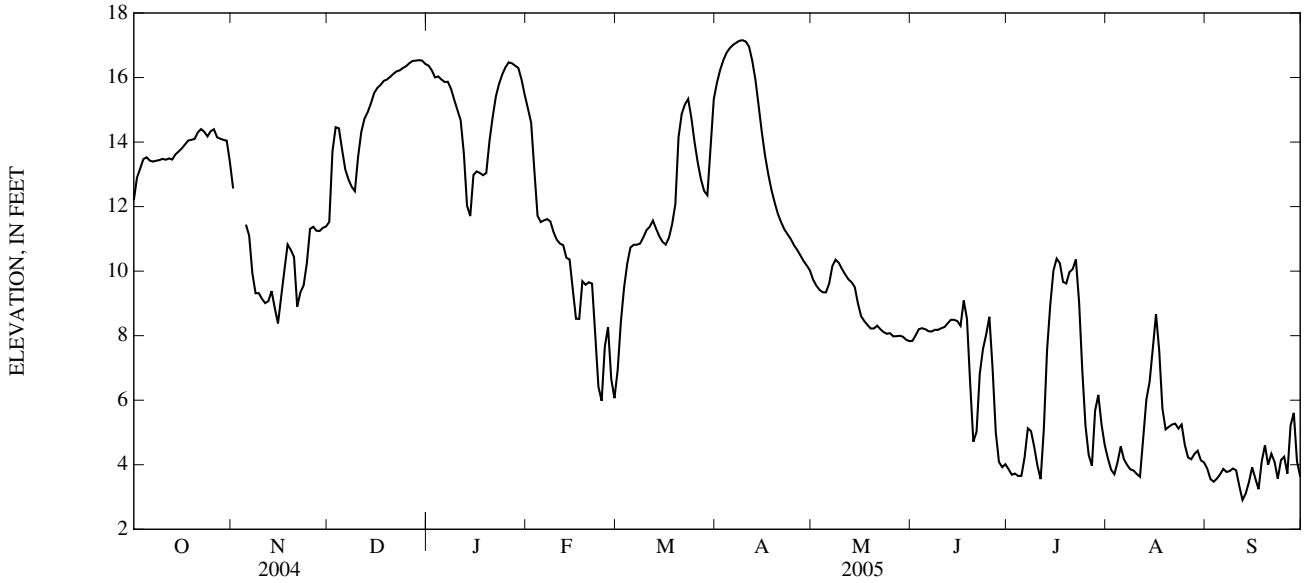
GAGE.--Water stage recorder. Datum of gage is NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 18.17 ft, Sept. 19, 1999; minimum elevation 1.33 ft, Jan. 4, 2002.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 17.18 ft, Apr. 9; minimum elevation, 2.81 ft, Sept. 12.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.20	12.56	11.53	16.37	15.04	6.93	15.85	9.73	7.84	3.86	4.19	3.88
2	12.90	---	13.71	16.22	14.61	8.42	16.24	9.55	8.01	3.69	3.84	3.56
3	13.18	---	14.46	16.00	13.12	9.49	16.54	9.42	8.20	3.73	3.70	3.47
4	13.47	---	14.43	16.03	11.72	10.24	16.77	9.34	8.23	3.65	4.08	3.57
5	13.53	11.44	13.77	15.94	11.52	10.73	16.91	9.34	8.20	3.66	4.57	3.70
6	13.42	11.10	13.15	15.86	11.57	10.82	17.01	9.62	8.14	4.24	4.17	3.87
7	13.40	9.94	12.84	15.87	11.61	10.82	17.08	10.16	8.13	5.13	3.99	3.78
8	13.42	9.31	12.61	15.65	11.54	10.85	17.14	10.35	8.18	5.04	3.86	3.80
9	13.44	9.32	12.48	15.31	11.21	11.05	17.16	10.26	8.18	4.55	3.82	3.88
10	13.48	9.14	13.54	14.99	10.97	11.27	17.11	10.07	8.23	3.97	3.71	3.83
11	13.45	9.01	14.32	14.68	10.85	11.38	16.96	9.90	8.27	3.55	3.63	3.34
12	13.49	9.07	14.73	13.65	10.81	11.57	16.52	9.75	8.38	5.12	4.82	2.91
13	13.46	9.38	14.93	12.03	10.41	11.31	15.93	9.66	8.49	7.55	6.02	3.11
14	13.62	8.85	15.20	11.71	10.36	11.08	15.12	9.50	8.49	8.95	6.57	3.46
15	13.71	8.38	15.52	12.98	9.43	10.91	14.30	8.99	8.45	10.02	7.59	3.92
16	13.80	9.22	15.68	13.09	8.52	10.82	13.58	8.60	8.30	10.39	8.67	3.58
17	13.93	10.03	15.77	13.04	8.52	11.04	13.00	8.45	9.09	10.24	7.54	3.24
18	14.05	10.83	15.90	12.97	9.69	11.46	12.52	8.32	8.53	9.67	5.75	4.10
19	14.07	10.66	15.94	13.04	9.58	12.08	12.12	8.22	6.53	9.62	5.09	4.60
20	14.10	10.44	16.02	14.03	9.66	14.16	11.77	8.23	4.71	9.97	5.17	4.00
21	14.30	8.90	16.11	14.77	9.61	14.88	11.52	8.31	5.02	10.06	5.25	4.34
22	14.40	9.35	16.19	15.42	8.03	15.17	11.30	8.20	6.82	10.36	5.27	4.09
23	14.32	9.56	16.22	15.81	6.41	15.34	11.14	8.11	7.58	9.03	5.12	3.57
24	14.17	10.24	16.30	16.10	5.98	14.75	11.00	8.06	8.04	6.92	5.25	4.14
25	14.34	11.31	16.35	16.32	7.66	13.99	10.81	8.08	8.58	5.20	4.61	4.25
26	14.40	11.37	16.45	16.47	8.27	13.36	10.66	7.98	6.99	4.30	4.23	3.73
27	14.15	11.25	16.51	16.44	6.65	12.84	10.49	7.98	5.01	3.97	4.17	5.21
28	14.10	11.24	16.52	16.37	6.06	12.48	10.32	8.00	4.08	5.68	4.33	5.61
29	14.07	11.34	16.54	16.30	---	12.35	10.18	7.97	3.92	6.16	4.43	4.11
30	14.04	11.38	16.52	15.94	---	13.85	10.02	7.88	4.02	5.25	4.14	3.63
31	13.37	---	16.42	15.46	---	15.33	---	7.83	---	4.61	4.07	---
MEAN	13.73	---	15.05	15.00	9.98	11.96	13.90	8.90	7.35	6.39	4.89	3.88
MAX	14.40	---	16.54	16.47	15.04	15.34	17.16	10.35	9.09	10.39	8.67	5.61
MIN	12.20	---	11.53	11.71	5.98	6.93	10.02	7.83	3.92	3.55	3.63	2.91



02081054 ROANOKE RIVER AT WILLIAMSTON, NC

LOCATION.--Lat 35°51'35", long 77°02'25", Martin County, Hydrologic Unit 03010107, on right bank 175 ft upstream of U.S. Highway 17 bridge, .75 mi above Sweetwater Creek, and 1 mi northeast of Williamston.

DRAINAGE AREA.--9,070 mi^2.

PERIOD OF RECORD.--December 1985 to current year.

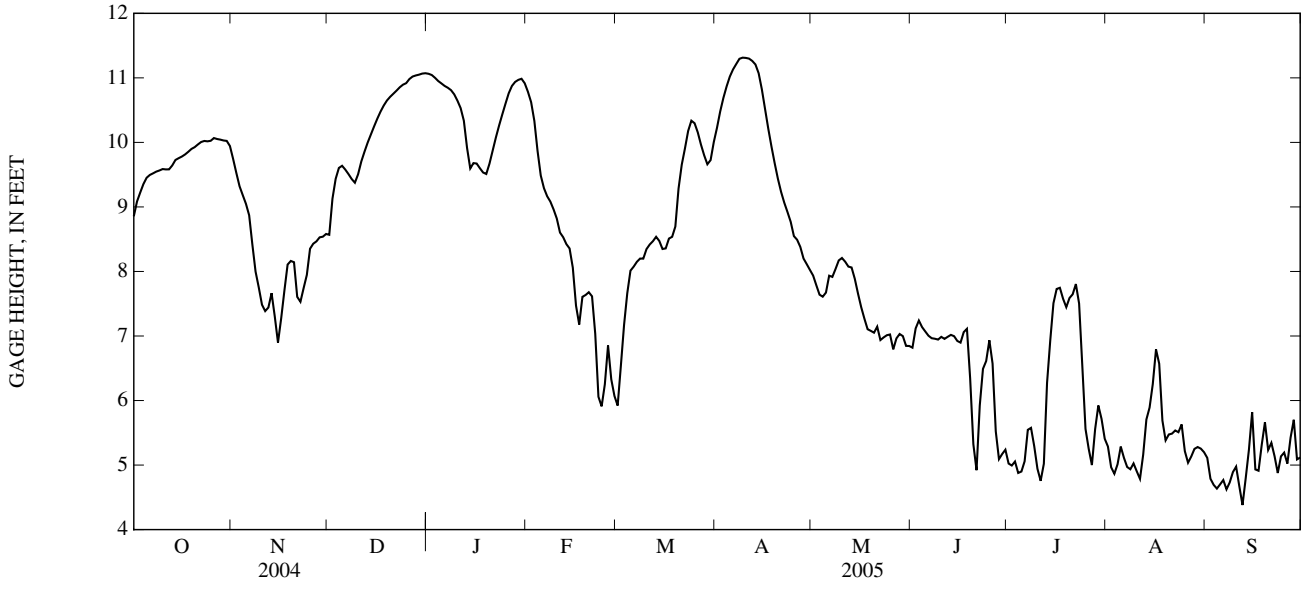
GAGE.--Water stage recorder. Datum of gage is 2.86 ft above NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.91 ft, Apr. 27, 2003; minimum gage height, -0.35 ft, Jan. 4, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.35 ft, Apr. 9; minimum gage height, 4.16 ft, Sept. 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.86	9.74	8.57	11.06	10.78	5.92	10.23	7.94	6.82	5.02	5.29	5.11
2	9.08	9.53	9.13	11.04	10.62	6.54	10.48	7.79	7.12	4.99	4.97	4.79
3	9.22	9.32	9.44	11.00	10.33	7.17	10.69	7.64	7.24	5.05	4.87	4.69
4	9.35	9.18	9.60	10.95	9.87	7.66	10.87	7.61	7.14	4.88	5.01	4.64
5	9.45	9.05	9.64	10.91	9.49	8.01	11.02	7.67	7.07	4.90	5.29	4.70
6	9.50	8.87	9.58	10.88	9.29	8.08	11.13	7.93	7.00	5.06	5.11	4.77
7	9.52	8.42	9.51	10.85	9.17	8.15	11.21	7.92	6.97	5.55	4.97	4.62
8	9.55	8.00	9.43	10.81	9.08	8.20	11.30	8.04	6.96	5.58	4.94	4.73
9	9.56	7.75	9.38	10.74	8.96	8.20	11.31	8.17	6.94	5.29	5.03	4.89
10	9.59	7.48	9.51	10.65	8.82	8.35	11.31	8.21	6.99	4.94	4.90	4.98
11	9.58	7.39	9.70	10.53	8.60	8.42	11.30	8.15	6.96	4.76	4.79	4.67
12	9.58	7.44	9.86	10.34	8.53	8.47	11.26	8.08	6.99	5.02	5.16	4.38
13	9.64	7.66	10.0	9.92	8.42	8.54	11.21	8.06	7.02	6.27	5.71	4.80
14	9.73	7.30	10.12	9.60	8.36	8.47	11.07	7.89	7.00	6.93	5.89	5.24
15	9.76	6.90	10.25	9.68	8.06	8.35	10.82	7.66	6.92	7.51	6.25	5.82
16	9.78	7.28	10.37	9.67	7.47	8.36	10.52	7.45	6.90	7.73	6.79	4.93
17	9.81	7.70	10.48	9.60	7.18	8.51	10.21	7.27	7.06	7.75	6.57	4.91
18	9.85	8.11	10.57	9.53	7.61	8.54	9.94	7.10	7.11	7.58	5.69	5.32
19	9.90	8.16	10.65	9.51	7.64	8.70	9.68	7.08	6.34	7.45	5.38	5.66
20	9.93	8.14	10.71	9.67	7.68	9.28	9.44	7.05	5.32	7.59	5.47	5.23
21	9.97	7.61	10.75	9.87	7.61	9.65	9.23	7.14	4.92	7.65	5.49	5.34
22	10.01	7.53	10.80	10.08	7.03	9.91	9.07	6.94	5.92	7.80	5.54	5.14
23	10.02	7.74	10.85	10.26	6.06	10.18	8.92	6.98	6.49	7.50	5.51	4.88
24	10.02	7.95	10.89	10.43	5.91	10.34	8.77	7.01	6.61	6.54	5.63	5.13
25	10.02	8.35	10.92	10.60	6.25	10.30	8.55	7.02	6.93	5.56	5.22	5.19
26	10.07	8.43	10.98	10.76	6.85	10.16	8.49	6.79	6.57	5.25	5.04	5.02
27	10.05	8.47	11.02	10.87	6.33	9.97	8.38	6.96	5.52	5.00	5.13	5.42
28	10.04	8.53	11.04	10.94	6.07	9.80	8.20	7.03	5.09	5.56	5.25	5.70
29	10.03	8.54	11.05	10.97	---	9.66	8.11	7.00	5.17	5.92	5.28	5.09
30	10.02	8.58	11.07	10.99	---	9.73	8.02	6.85	5.24	5.72	5.25	5.12
31	9.94	---	11.07	10.92	---	10.01	---	6.84	---	5.41	5.20	---
MEAN	9.72	8.17	10.22	10.44	8.15	8.76	10.02	7.46	6.54	6.06	5.37	5.03
MAX	10.07	9.74	11.07	11.06	10.78	10.34	11.31	8.21	7.24	7.80	6.79	5.82
MIN	8.86	6.90	8.57	9.51	5.91	5.92	8.02	6.79	4.92	4.76	4.79	4.38



02081094 ROANOKE RIVER AT JAMESVILLE, NC

LOCATION.--Lat 35°48'47", long 76°53'34", Martin County, Hydrologic Unit 03010107, at private pier on right bank, 50 ft downstream of boat ramp at end of Water Street, approximately 19.2 mi upstream from mouth, and 0.5 mi northeast of Jamesville.

DRAINAGE AREA.--9,250 mi^2.

TIDAL-ELEVATION RECORDS

PERIOD OF RECORD.--October 1990 to September 1993, August 1996 to current year. Records from August 1996 to September 1997 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

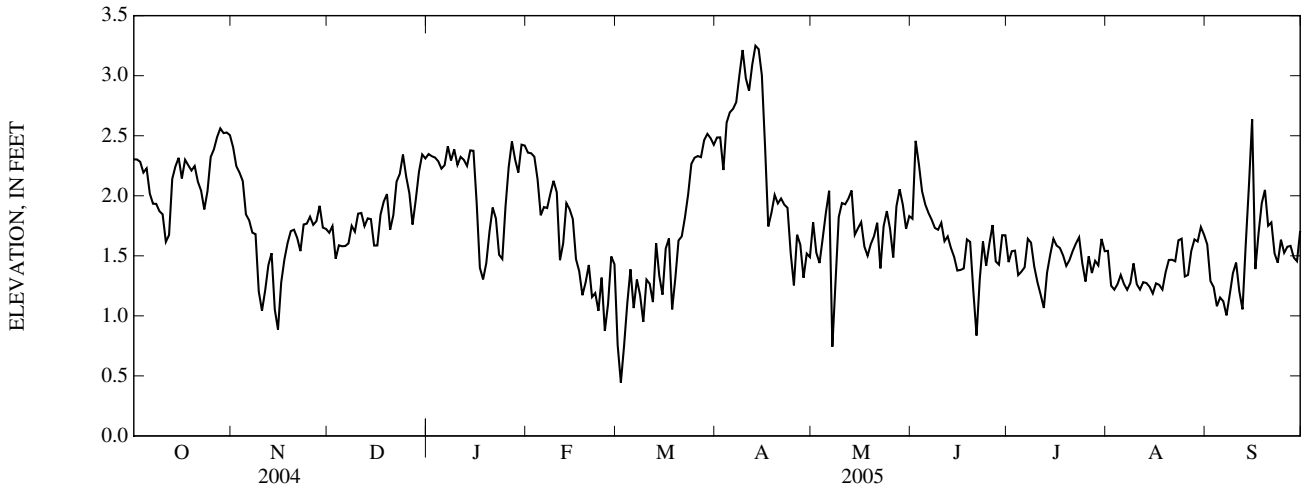
GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.87 ft, Sept. 18, 19, 1999; minimum elevation, -1.14 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 3.35 ft, Apr. 13; minimum elevation, 0.09 ft, Mar. 2.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.30	2.40	1.69	2.35	2.36	0.76	2.49	1.78	1.81	1.45	1.54	1.59
2	2.30	2.25	1.75	2.33	2.35	0.44	2.49	1.53	2.46	1.54	1.25	1.29
3	2.28	2.19	1.48	2.32	2.33	0.75	2.21	1.44	2.26	1.54	1.22	1.24
4	2.19	2.12	1.59	2.29	2.14	1.10	2.61	1.65	2.04	1.34	1.26	1.08
5	2.23	1.84	1.58	2.23	1.84	1.39	2.69	1.86	1.93	1.37	1.34	1.15
6	2.02	1.80	1.58	2.25	1.91	1.06	2.72	2.04	1.86	1.40	1.27	1.12
7	1.93	1.69	1.60	2.41	1.90	1.30	2.78	0.74	1.80	1.64	1.22	1.00
8	1.93	1.68	1.75	2.29	2.02	1.17	3.01	1.29	1.73	1.61	1.27	1.17
9	1.87	1.20	1.70	2.39	2.12	0.95	3.21	1.82	1.72	1.41	1.44	1.36
10	1.85	1.04	1.85	2.26	2.03	1.30	2.98	1.94	1.78	1.28	1.26	1.44
11	1.62	1.21	1.86	2.32	1.46	1.27	2.87	1.93	1.62	1.18	1.22	1.20
12	1.67	1.42	1.75	2.30	1.60	1.11	3.09	1.98	1.66	1.07	1.28	1.05
13	2.14	1.52	1.81	2.25	1.94	1.61	3.25	2.04	1.57	1.36	1.27	1.59
14	2.25	1.05	1.81	2.38	1.89	1.33	3.22	1.68	1.49	1.51	1.24	2.08
15	2.32	0.89	1.59	2.37	1.81	1.18	3.00	1.73	1.38	1.64	1.19	2.64
16	2.14	1.28	1.59	1.94	1.47	1.56	2.41	1.78	1.38	1.59	1.27	1.39
17	2.30	1.47	1.84	1.40	1.37	1.64	1.74	1.58	1.39	1.57	1.26	1.69
18	2.25	1.61	1.95	1.30	1.17	1.05	1.86	1.50	1.64	1.50	1.22	1.94
19	2.21	1.71	2.01	1.44	1.28	1.31	2.01	1.60	1.62	1.42	1.36	2.05
20	2.25	1.72	1.72	1.70	1.42	1.63	1.94	1.66	1.21	1.46	1.47	1.75
21	2.12	1.65	1.84	1.90	1.16	1.66	1.98	1.78	0.84	1.54	1.47	1.78
22	2.04	1.54	2.12	1.81	1.19	1.82	1.93	1.40	1.31	1.60	1.45	1.52
23	1.89	1.76	2.18	1.51	1.04	2.01	1.90	1.75	1.62	1.65	1.63	1.44
24	2.04	1.77	2.34	1.47	1.32	2.27	1.52	1.87	1.42	1.44	1.64	1.63
25	2.32	1.83	2.16	1.91	0.87	2.32	1.25	1.73	1.60	1.29	1.33	1.53
26	2.39	1.76	2.02	2.24	1.10	2.33	1.68	1.49	1.76	1.50	1.34	1.58
27	2.49	1.79	1.76	2.45	1.49	2.32	1.59	1.91	1.45	1.36	1.54	1.58
28	2.56	1.92	1.97	2.30	1.43	2.46	1.32	2.05	1.43	1.46	1.64	1.49
29	2.52	1.73	2.20	2.19	---	2.52	1.52	1.92	1.67	1.42	1.62	1.45
30	2.53	1.72	2.34	2.43	---	2.48	1.49	1.72	1.67	1.64	1.74	1.71
31	2.50	---	2.31	2.42	---	2.42	---	1.83	---	1.54	1.68	---
MEAN	2.18	1.65	1.86	2.10	1.64	1.57	2.29	1.71	1.64	1.46	1.38	1.52
MAX	2.56	2.40	2.34	2.45	2.36	2.52	3.25	2.05	2.46	1.65	1.74	2.64
MIN	1.62	0.89	1.48	1.30	0.87	0.44	1.25	0.74	0.84	1.07	1.19	1.00



02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955 to 1967, 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1955 to September 1967, March 1998 to current year
pH: March 1998 to current year.
WATER TEMPERATURE: October 1955 to September 1967, March 1998 to current year.
DISSOLVED OXYGEN: March 1998 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION: March 1998 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources, to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	182, April 11, 1999	36, September 19-21, 1999
pH, standard units	7.7, June 14, 15, 16, 17, 2002	5.6, May 3, 1998, September 18, 19, 1999
WATER TEMPERATURE, °C	31.4, August 3, 2002	2.2, January 5, 6, 2001, January 28, 29, 2003
DISSOLVED OXYGEN, mg/L	14.3, January 8, 1999	<1.0, September 21-30, 2003
DISSOLVED OXYGEN, PERCENT SATURATION,%	112, January 8, 1999	<10, September 21-30, 2003

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	144, September 18	94, August 1, 2
pH, standard units	7.6, February 27, 28, March 6-9	6.6, June 30, August 1, 2
WATER TEMPERATURE, °C	30.4, July 29	2.8, January 29
DISSOLVED OXYGEN, mg/L	11.8, January 29, 30, February 2, 3, March 20, 22	4.4, June 30, July 31
DISSOLVED OXYGEN, PERCENT SATURATION,%	102, March 22, 23	52, November 2

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	110	104	106	109	106	108	108	105	106	102	101	102
2	110	104	107	111	108	109	108	104	106	103	102	103
3	109	104	106	114	109	111	107	104	106	103	103	103
4	108	104	105	113	109	111	105	103	104	104	103	103
5	108	103	105	113	109	111	104	103	104	105	103	104
6	109	104	105	113	109	111	104	103	104	105	104	104
7	108	104	105	112	108	110	105	103	104	106	104	105
8	108	103	105	112	109	110	106	105	105	106	105	105
9	108	104	105	113	109	111	106	105	105	106	105	105
10	108	103	105	118	108	112	106	105	106	107	102	105
11	109	104	105	117	108	112	106	106	106	107	105	106
12	---	---	---	114	108	112	108	104	105	107	105	106
13	109	103	106	114	109	111	105	102	103	108	104	106
14	108	103	105	114	108	110	103	102	103	107	105	106
15	108	104	106	113	108	110	104	102	103	107	105	106
16	108	105	106	113	108	110	104	103	104	111	105	108
17	107	104	105	111	103	107	104	103	104	106	100	102
18	107	104	105	111	102	106	104	104	104	101	99	100
19	107	105	106	108	104	106	104	100	104	104	100	102
20	108	105	106	107	104	105	104	103	103	105	100	102
21	108	106	107	109	104	105	104	103	103	104	101	103
22	109	102	107	109	105	107	104	103	103	105	102	103
23	104	100	102	110	106	107	104	102	103	104	101	102
24	105	100	103	113	106	108	103	102	102	102	101	102
25	105	101	104	109	106	107	102	101	101	101	100	101
26	106	103	104	110	106	108	101	98	100	101	100	100
27	106	104	105	109	106	107	99	98	99	100	100	100
28	105	105	105	109	105	107	100	99	99	100	99	100
29	108	105	106	109	105	106	101	99	100	100	98	100
30	108	105	106	108	105	106	101	100	101	100	98	99
31	108	106	107	---	---	---	102	101	101	100	98	99
MONTH	---	---	---	118	102	109	108	98	103	111	98	103
		FEBRUARY			MARCH			APRIL			MAY	
1	100	98	99	113	106	109	102	100	101	116	114	115
2	101	99	100	118	107	112	101	99	100	116	115	116
3	101	99	100	118	109	114	100	99	100	116	115	116
4	101	99	100	113	102	105	101	100	100	116	115	116
5	101	99	100	106	103	105	101	100	101	116	114	115
6	107	100	102	107	104	105	101	100	101	116	109	113
7	108	101	105	108	104	106	103	101	102	110	108	109
8	105	101	103	108	104	106	102	101	101	110	108	109
9	107	102	104	107	105	106	102	101	102	111	109	110
10	107	102	105	106	105	105	103	102	102	110	106	107
11	108	103	105	105	102	104	103	102	103	107	106	106
12	109	104	106	104	100	102	104	103	103	108	106	107
13	109	105	107	104	101	102	104	102	103	108	105	106
14	109	105	107	104	101	103	103	102	102	107	105	106
15	111	105	107	104	101	103	104	102	103	109	105	107
16	110	106	108	105	103	103	106	104	105	109	105	107
17	111	107	109	103	102	103	107	106	107	108	106	106
18	114	108	110	103	101	102	109	105	108	110	107	109
19	117	107	112	102	101	102	109	108	109	111	110	110
20	116	108	110	102	98	100	111	109	110	111	109	110
21	113	107	110	100	98	99	114	110	112	110	109	109
22	113	108	111	99	98	98	113	112	113	112	109	109
23	112	108	110	98	97	98	116	113	114	111	110	110
24	114	111	113	98	97	97	114	113	114	111	109	110
25	118	109	112	98	96	97	114	113	114	111	109	110
26	120	113	117	98	96	97	115	113	114	110	109	110
27	118	115	116	99	98	98	115	112	114	113	110	111
28	115	106	112	99	98	99	115	114	115	114	113	113
29	---	---	---	101	98	100	117	114	115	114	113	113
30	---	---	---	101	100	101	118	114	115	113	112	113
31	---	---	---	102	101	101	---	---	---	114	113	113
MONTH	120	98	107	118	96	103	118	99	107	116	105	110

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS,—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	114	113	113	123	107	114	113	94	104	134	132	133
2	113	112	113	127	123	126	107	94	99	134	132	133
3	113	111	112	130	127	128	120	107	115	133	132	133
4	113	111	112	129	127	128	123	117	121	137	133	136
5	113	112	112	129	126	127	125	121	123	137	132	134
6	113	112	113	128	126	127	127	124	126	136	134	135
7	113	112	113	129	126	128	127	124	125	136	134	135
8	113	112	112	130	127	128	125	123	124	137	135	136
9	113	111	112	129	126	127	123	118	121	136	135	135
10	113	111	112	127	121	125	120	118	118	135	132	134
11	113	111	112	121	114	117	120	118	119	133	131	132
12	113	112	113	123	116	120	122	117	119	133	131	133
13	113	112	112	128	121	125	123	121	122	133	131	132
14	113	111	112	128	122	126	124	122	123	133	131	132
15	113	111	112	125	109	114	124	115	121	133	131	132
16	113	112	113	120	109	114	121	112	116	137	131	134
17	113	112	112	118	109	112	119	112	115	143	137	141
18	113	112	113	119	109	112	118	111	114	144	141	143
19	113	112	112	120	110	112	117	111	114	143	140	142
20	116	110	114	121	111	114	113	110	111	142	141	142
21	111	109	110	121	111	115	113	111	112	142	139	141
22	122	110	116	119	109	113	115	113	114	142	138	140
23	128	114	122	120	110	113	121	114	118	139	124	131
24	126	110	119	116	110	112	129	119	125	138	123	130
25	120	109	114	119	112	116	127	125	125	139	130	136
26	119	109	113	112	110	111	127	126	126	140	128	135
27	119	111	115	124	112	118	129	125	127	143	126	133
28	113	110	111	124	115	119	127	126	127	143	128	136
29	117	109	114	127	122	125	132	127	129	141	124	132
30	110	104	107	126	123	125	133	131	132	143	131	138
31	---	---	---	124	110	118	134	132	133	---	---	---
MONTH	128	104	113	130	107	120	134	94	120	144	123	135

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	7.0	7.0	7.0	6.9	6.9	7.3	7.1	7.2	7.1	7.0	7.1
2	7.1	7.0	7.1	6.9	6.9	6.9	7.2	7.2	7.2	7.1	7.0	7.0
3	7.1	7.1	7.1	6.9	6.9	6.9	7.2	7.2	7.2	7.0	7.0	7.0
4	7.1	7.1	7.1	6.9	6.9	6.9	7.3	7.2	7.2	7.0	7.0	7.0
5	7.1	7.0	7.1	6.9	6.9	6.9	7.2	7.2	7.2	7.0	7.0	7.0
6	7.1	7.0	7.1	7.0	6.9	7.0	7.2	7.1	7.2	7.0	7.0	7.0
7	7.0	7.0	7.0	7.0	6.9	6.9	7.1	7.1	7.1	7.0	7.0	7.0
8	7.0	7.0	7.0	6.9	6.8	6.9	7.1	7.0	7.1	7.0	7.0	7.0
9	7.0	6.9	7.0	6.9	6.9	6.9	7.1	7.0	7.0	7.0	7.0	7.0
10	6.9	6.9	6.9	7.0	6.9	7.0	7.1	7.0	7.1	7.0	7.0	7.0
11	6.9	6.9	6.9	7.0	7.0	7.0	7.1	7.1	7.1	7.0	7.0	7.0
12	---	---	---	7.0	7.0	7.0	7.2	7.1	7.1	7.0	7.0	7.0
13	6.9	6.8	6.9	7.1	7.0	7.1	7.1	7.1	7.1	7.0	7.0	7.0
14	6.9	6.8	6.8	7.1	7.0	7.1	7.1	7.1	7.1	7.0	6.9	6.9
15	6.8	6.8	6.8	7.1	7.0	7.1	7.1	7.1	7.1	7.0	6.9	6.9
16	6.9	6.8	6.8	7.1	7.0	7.1	7.2	7.1	7.2	7.0	7.0	7.0
17	7.0	6.8	6.8	7.1	7.0	7.1	7.2	7.1	7.1	7.0	7.0	7.0
18	7.0	6.9	6.9	7.2	7.1	7.2	7.1	7.1	7.1	7.1	7.0	7.0
19	7.0	6.9	6.9	7.3	7.2	7.2	7.1	7.0	7.0	7.1	7.0	7.1
20	6.9	6.9	6.9	7.3	7.2	7.2	7.1	7.0	7.0	7.2	7.1	7.1
21	6.9	6.9	6.9	7.2	7.2	7.2	7.1	7.1	7.1	7.3	7.2	7.3
22	7.0	6.9	6.9	7.2	7.1	7.1	7.1	7.1	7.1	7.3	7.3	7.3
23	6.9	6.9	6.9	7.2	7.1	7.1	7.1	7.0	7.0	7.3	7.3	7.3
24	6.9	6.9	6.9	7.2	7.1	7.2	7.0	7.0	7.0	7.4	7.3	7.3
25	6.9	6.9	6.9	7.2	7.2	7.2	7.0	7.0	7.0	7.4	7.3	7.4
26	7.0	6.9	6.9	7.3	7.2	7.3	7.1	7.0	7.0	7.3	7.3	7.3
27	7.0	7.0	7.0	7.3	7.3	7.3	7.1	7.1	7.1	7.3	7.3	7.3
28	7.0	7.0	7.0	7.3	7.2	7.3	7.1	7.1	7.1	7.3	7.3	7.3
29	7.0	7.0	7.0	7.2	7.2	7.2	7.2	7.1	7.1	7.3	7.3	7.3
30	7.0	7.0	7.0	7.3	7.2	7.3	7.1	7.1	7.1	7.3	7.3	7.3
31	7.0	6.9	7.0	---	---	---	7.1	7.1	7.1	7.3	7.2	7.3
MONTH	---	---	---	7.3	6.8	7.1	7.3	7.0	7.1	7.4	6.9	7.1
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.2	7.2	7.4	7.3	7.4	7.1	7.0	7.0	7.0	7.0	7.0
2	7.3	7.2	7.2	7.4	7.3	7.3	7.0	7.0	7.0	7.0	7.0	7.0
3	7.3	7.2	7.3	7.4	7.3	7.4	7.0	6.8	6.9	7.0	7.0	7.0
4	7.3	7.2	7.2	7.4	7.3	7.4	6.9	6.8	6.9	7.0	7.0	7.0
5	7.2	7.2	7.2	7.5	7.4	7.5	7.0	6.8	6.8	7.1	7.0	7.0
6	7.2	7.2	7.2	7.6	7.5	7.5	7.0	6.9	7.0	7.1	6.9	7.1
7	7.3	7.2	7.2	7.6	7.5	7.5	7.0	6.9	6.9	6.9	6.9	6.9
8	7.3	7.2	7.3	7.6	7.5	7.5	7.0	6.8	6.9	7.0	6.9	6.9
9	7.3	7.3	7.3	7.6	7.4	7.5	6.9	6.8	6.9	7.0	6.9	7.0
10	7.3	7.2	7.3	7.5	7.4	7.4	7.0	6.8	6.9	6.9	6.8	6.9
11	7.3	7.2	7.2	7.5	7.3	7.4	7.0	6.9	6.9	6.9	6.9	6.9
12	7.3	7.3	7.3	7.4	7.3	7.3	7.0	6.9	6.9	7.0	6.9	6.9
13	7.3	7.3	7.3	7.4	7.3	7.4	6.9	6.8	6.8	7.0	6.9	7.0
14	7.3	7.3	7.3	7.4	7.3	7.4	7.0	6.8	6.8	6.9	6.9	6.9
15	7.3	7.3	7.3	7.4	7.3	7.4	7.0	6.8	6.9	7.0	6.9	6.9
16	7.3	7.2	7.3	7.4	7.3	7.3	7.0	6.9	6.9	6.9	6.9	6.9
17	7.3	7.2	7.2	7.4	7.2	7.3	7.0	6.9	6.9	6.9	6.9	6.9
18	7.3	7.2	7.2	7.2	7.2	7.2	7.0	6.9	6.9	6.9	6.9	6.9
19	7.4	7.3	7.3	7.2	7.2	7.2	7.0	6.9	6.9	7.0	6.9	6.9
20	7.4	7.4	7.4	7.2	7.2	7.2	7.0	6.9	6.9	7.0	6.9	6.9
21	7.4	7.4	7.4	7.3	7.2	7.2	6.9	6.9	6.9	7.0	6.9	7.0
22	7.4	7.4	7.4	7.3	7.2	7.3	6.9	6.9	6.9	7.0	7.0	7.0
23	7.4	7.3	7.3	7.2	7.2	7.2	6.9	6.9	6.9	7.0	7.0	7.0
24	7.3	7.2	7.3	7.2	7.1	7.1	6.9	6.9	6.9	7.1	7.0	7.0
25	7.4	7.2	7.3	7.1	7.0	7.0	7.0	6.9	6.9	7.1	7.0	7.0
26	7.5	7.4	7.4	7.0	6.8	6.9	7.0	6.9	7.0	7.0	7.0	7.0
27	7.6	7.5	7.5	6.9	6.8	6.9	7.0	7.0	7.0	7.1	7.0	7.0
28	7.6	7.4	7.5	6.9	6.8	6.8	7.0	7.0	7.0	7.1	7.0	7.0
29	---	---	---	6.9	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0
30	---	---	---	7.0	6.8	6.9	7.0	7.0	7.0	7.0	7.0	7.0
31	---	---	---	7.0	6.9	7.0	---	---	---	7.1	7.0	7.0
MONTH	7.6	7.2	7.3	7.6	6.8	7.2	7.1	6.8	6.9	7.1	6.8	7.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	7.0	7.0	6.8	6.7	6.7	6.8	6.6	6.7	7.2	7.2	7.2
2	7.1	7.0	7.0	6.9	6.8	6.8	6.7	6.6	6.6	7.2	7.2	7.2
3	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.7	6.7	7.2	7.2	7.2
4	7.0	6.9	7.0	6.9	6.8	6.8	6.8	6.7	6.8	7.3	7.2	7.2
5	7.0	6.9	7.0	6.9	6.8	6.8	6.8	6.8	6.8	7.3	7.2	7.2
6	7.0	7.0	7.0	6.9	6.8	6.8	6.8	6.8	6.8	7.3	7.2	7.3
7	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.8	6.8	7.4	7.2	7.3
8	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8	7.4	7.3	7.4
9	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.9	7.4	7.4	7.4
10	7.0	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8	7.4	7.3	7.4
11	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.8	6.8	7.4	7.4	7.4
12	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.8	6.9	7.4	7.3	7.4
13	7.0	7.0	7.0	6.9	6.9	6.9	7.0	6.9	6.9	7.4	7.3	7.4
14	7.2	7.0	7.0	7.0	6.9	7.0	7.0	7.0	7.0	7.4	7.3	7.4
15	7.2	7.1	7.2	7.0	7.0	7.0	7.0	7.0	7.0	7.4	7.2	7.4
16	7.3	7.1	7.2	7.0	7.0	7.0	7.1	7.0	7.0	7.2	7.1	7.2
17	7.2	7.1	7.2	7.0	6.9	7.0	7.1	7.0	7.0	7.2	7.2	7.2
18	7.2	7.1	7.2	7.0	6.9	6.9	7.1	7.0	7.0	7.3	7.2	7.3
19	7.2	7.2	7.2	6.9	6.9	6.9	7.1	7.0	7.0	7.4	7.3	7.3
20	7.2	7.1	7.2	7.0	6.9	6.9	7.1	7.0	7.0	7.3	7.3	7.3
21	7.2	7.0	7.0	7.0	6.9	7.0	7.1	7.1	7.1	7.4	7.3	7.3
22	7.1	7.0	7.0	7.0	6.9	6.9	7.2	7.1	7.1	7.3	7.3	7.3
23	7.2	7.0	7.1	7.0	6.9	6.9	7.2	7.1	7.2	7.3	7.3	7.3
24	7.2	7.1	7.1	6.9	6.8	6.9	7.2	7.1	7.2	7.3	7.3	7.3
25	7.2	7.0	7.1	6.8	6.8	6.8	7.2	7.2	7.2	7.4	7.3	7.4
26	7.1	7.0	7.1	6.8	6.8	6.8	7.2	7.2	7.2	7.4	7.3	7.3
27	7.0	6.9	7.0	6.8	6.8	6.8	7.2	7.2	7.2	7.4	7.3	7.4
28	7.0	6.9	6.9	6.9	6.8	6.8	7.2	7.2	7.2	7.4	7.4	7.4
29	7.0	6.8	6.9	7.0	6.9	6.9	7.2	7.2	7.2	7.4	7.4	7.4
30	6.8	6.6	6.7	7.0	6.8	6.9	7.2	7.2	7.2	7.4	7.4	7.4
31	---	---	---	6.8	6.7	6.8	7.2	7.2	7.2	---	---	---
MONTH	7.3	6.6	7.0	7.0	6.7	6.9	7.2	6.6	7.0	7.4	7.1	7.3

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.9	23.5	23.7	18.8	18.2	18.5	12.8	12.6	12.7	6.8	6.1	6.4
2	24.1	23.6	23.8	18.9	18.2	18.6	12.6	12.1	12.3	7.5	6.7	7.1
3	23.9	23.5	23.7	19.0	18.9	18.9	12.3	11.8	12.1	8.1	7.4	7.7
4	23.8	23.3	23.6	18.9	18.4	18.6	12.1	11.8	11.9	9.0	8.0	8.5
5	23.6	22.9	23.2	18.5	17.8	18.1	11.8	11.6	11.7	9.8	9.0	9.3
6	22.9	22.1	22.4	17.8	17.2	17.5	11.6	11.4	11.5	10.5	9.6	10.0
7	22.1	21.4	21.8	17.2	16.5	16.8	12.1	11.3	11.6	10.7	10.3	10.5
8	21.9	21.2	21.6	16.5	16.0	16.3	12.7	12.0	12.3	10.9	10.2	10.5
9	21.8	21.1	21.5	16.0	15.2	15.6	12.7	12.4	12.5	10.8	10.2	10.4
10	21.8	21.0	21.5	15.2	14.6	14.8	13.4	12.7	13.0	10.2	9.7	10
11	21.5	20.8	21.2	14.8	14.4	14.6	13.4	12.6	13.0	10.1	9.6	9.8
12	---	---	---	14.9	14.5	14.7	12.6	12.2	12.4	10.3	9.6	9.9
13	21.1	20.8	20.9	14.8	14.2	14.6	12.2	11.7	12.0	11.5	10.2	10.7
14	20.8	20.5	20.6	14.3	13.7	14.1	11.7	10.6	11.1	12.1	11.3	11.8
15	20.5	20.1	20.3	13.8	13.4	13.6	10.6	9.4	10	11.3	9.8	10.5
16	20.1	19.4	19.6	13.4	12.8	13.1	9.4	8.8	9.0	9.8	8.9	9.5
17	19.5	18.9	19.1	12.8	12.2	12.5	8.8	8.2	8.4	8.9	7.9	8.5
18	19.2	18.6	18.9	13.0	12.2	12.6	8.5	8.1	8.3	7.9	6.6	7.0
19	19.7	18.9	19.3	13.4	13.0	13.2	8.4	8.1	8.3	6.6	6.0	6.2
20	19.6	19.3	19.5	13.8	13.4	13.5	8.2	6.4	7.2	6.0	5.7	5.8
21	19.4	19.1	19.2	14.1	13.8	14.0	6.5	5.9	6.2	5.8	5.3	5.5
22	19.2	18.6	19.0	14.4	14.0	14.2	7.0	6.2	6.6	5.4	5.0	5.2
23	18.6	18.0	18.3	14.7	14.3	14.5	8.1	7.0	7.5	5.0	4.5	4.7
24	18.0	17.4	17.6	15.1	14.6	14.9	8.2	7.3	7.8	4.9	4.5	4.7
25	17.4	16.9	17.1	15.3	14.9	15.2	7.3	6.4	6.8	4.7	4.4	4.5
26	17.2	16.6	16.9	14.9	14.4	14.6	6.5	4.4	5.4	4.8	4.1	4.4
27	17.0	16.7	16.9	14.4	14.0	14.1	4.4	4.0	4.2	4.8	4.2	4.6
28	17.2	16.8	17.0	14.1	13.7	14.0	4.2	3.6	3.9	4.2	3.3	3.6
29	17.2	16.8	17.0	13.7	12.8	13.1	4.5	3.8	4.1	3.5	2.8	3.1
30	18.1	17.1	17.5	12.9	12.5	12.6	5.4	4.5	4.9	3.8	3.4	3.6
31	18.6	17.9	18.2	---	---	---	6.2	5.4	5.7	4.2	3.5	3.8
MONTH	---	---	---	19.0	12.2	15.0	13.4	3.6	9.2	12.1	2.8	7.3
		FEBRUARY			MARCH			APRIL			MAY	
1	4.1	3.6	3.9	7.2	6.8	6.9	13.7	12.5	13.1	16.8	16.3	16.6
2	4.4	3.5	3.9	7.3	6.7	6.9	13.8	13.2	13.5	16.9	16.5	16.7
3	4.3	4.0	4.1	6.9	6.4	6.7	13.5	12.3	12.9	16.9	16.3	16.6
4	4.4	3.9	4.2	6.8	6.2	6.5	14.1	12.4	13.2	17.4	16.6	16.9
5	5.0	4.2	4.5	6.6	6.5	6.5	15.2	13.4	14.1	17.5	16.9	17.1
6	5.5	4.5	4.9	6.8	6.2	6.5	16.0	14.2	14.9	16.9	15.3	16.5
7	5.8	5.2	5.4	7.3	6.6	6.9	16.5	15.3	15.9	16.0	15.2	15.5
8	6.3	5.7	5.9	7.6	7.2	7.4	17.1	16.1	16.5	16.2	15.8	16.0
9	6.9	6.3	6.5	7.6	6.9	7.2	16.9	15.9	16.5	16.7	16.0	16.3
10	7.4	6.9	7.2	7.9	7.3	7.6	16.2	14.7	15.6	17.6	16.4	16.9
11	7.2	6.8	6.9	8.1	7.5	7.9	16.6	14.8	15.7	18.5	17.4	18.0
12	6.9	6.6	6.8	8.2	7.5	7.8	16.2	14.5	15.2	19.3	18.4	18.8
13	7.0	6.6	6.8	8.6	7.9	8.2	14.5	13.0	13.7	19.2	18.6	19.0
14	6.9	6.7	6.8	8.6	8.2	8.3	13.7	12.3	12.9	19.3	18.6	19.0
15	7.5	6.8	7.2	8.5	8.1	8.3	13.7	12.5	13.1	20.1	19.2	19.7
16	8.1	7.3	7.8	8.6	8.0	8.3	13.7	12.2	12.9	20.4	19.7	20.0
17	8.4	7.8	8.1	8.1	7.2	7.6	14.2	12.4	13.2	20.4	19.5	19.9
18	8.1	7.6	7.8	8.1	7.2	7.6	14.9	13.2	14.0	21.3	20.0	20.6
19	8.0	7.4	7.7	8.1	7.8	7.9	15.9	14.3	15.0	21.3	21.0	21.1
20	7.6	7.0	7.3	8.3	7.7	8.0	16.9	15.5	16.1	21.3	20.6	21.0
21	7.2	7.0	7.1	9.1	8.2	8.5	17.4	16.5	16.9	20.8	20.0	20.4
22	7.6	7.1	7.4	9.4	8.5	8.8	18.1	17.2	17.6	20.8	19.8	20.3
23	8.1	7.3	7.7	10.5	9.4	9.9	18.2	18.0	18.1	20.8	20.0	20.4
24	7.9	7.6	7.7	10.7	10.2	10.5	18.0	17.1	17.4	20.9	20.2	20.6
25	7.7	7.4	7.6	11.0	10.2	10.6	17.1	16.0	16.4	20.8	20.3	20.6
26	7.8	7.3	7.5	11.5	10.7	11.1	16.0	15.8	15.9	21.1	19.9	20.4
27	7.5	7.1	7.3	11.4	10.9	11.1	16.6	15.8	16.2	21.4	20.3	20.9
28	7.1	6.8	6.8	11.9	11.0	11.4	16.3	15.9	16.1	21.6	20.8	21.2
29	---	---	---	12.5	11.3	11.9	16.1	15.7	15.9	21.9	20.9	21.4
30	---	---	---	13.3	11.9	12.5	16.4	15.7	16.1	22.2	21.5	21.8
31	---	---	---	13.4	12.3	12.9	---	---	---	22.5	21.6	22.0
MONTH	8.4	3.5	6.5	13.4	6.2	8.7	18.2	12.2	15.2	22.5	15.2	19.1

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.1	21.6	21.8	27.1	26.0	26.4	27.6	27.1	27.3	28.7	28.2	28.4
2	21.6	21.3	21.4	27.6	27.1	27.4	27.9	26.9	27.3	29.0	28.4	28.7
3	21.5	21.1	21.3	27.6	27.4	27.5	28.3	27.5	27.8	28.8	28.5	28.7
4	21.8	21.1	21.3	28.1	27.6	27.8	28.4	27.6	27.9	28.8	28.3	28.5
5	21.9	20.9	21.4	28.0	27.8	27.9	28.8	28.0	28.4	28.3	27.8	27.9
6	22.5	21.6	22.0	28.5	27.8	28.1	29.4	28.4	28.9	27.8	27.1	27.3
7	23.3	22.4	22.8	29.0	28.4	28.6	29.7	29.1	29.4	27.1	26.7	26.8
8	23.9	23.0	23.4	29.0	28.3	28.6	29.6	29.2	29.4	26.7	26.2	26.4
9	24.2	23.4	23.8	28.7	28.3	28.5	29.4	28.8	29.1	26.3	25.9	26.1
10	24.7	23.5	24.0	28.8	28.2	28.5	29.2	28.4	28.8	26.0	25.5	25.7
11	24.8	23.8	24.3	28.8	28.3	28.6	29.2	28.8	29.0	25.6	25.3	25.4
12	25.6	24.6	25.1	29.1	28.8	28.9	29.2	28.6	28.9	25.7	25.2	25.4
13	25.4	24.7	25.0	28.8	28.3	28.5	29.3	28.5	28.9	26.0	25.6	25.8
14	25.7	24.7	25.2	28.5	27.5	28.2	30.0	29.0	29.4	25.9	25.7	25.8
15	26.2	25.1	25.6	28.4	27.4	27.8	29.7	29.2	29.4	25.8	25.5	25.6
16	26.3	25.4	25.8	28.4	27.5	28.0	29.7	29.1	29.4	25.8	25.2	25.5
17	27.3	25.8	26.4	28.6	27.7	28.1	29.2	28.5	28.8	26.2	25.7	25.9
18	27.1	25.9	26.6	29.0	28.1	28.5	28.7	28.1	28.4	26.5	26.1	26.3
19	26.8	25.5	26.2	29.0	28.1	28.5	29.0	28.5	28.7	27.1	26.4	26.8
20	26.5	25.1	25.5	28.7	27.9	28.2	29.2	28.4	28.8	27.2	26.9	27.1
21	25.9	24.9	25.3	29.3	28.3	28.7	29.7	28.9	29.3	27.4	27.1	27.2
22	26.0	25.3	25.7	29.5	28.8	29.1	29.5	28.8	29.2	27.4	27.0	27.3
23	25.9	25.2	25.5	29.5	28.9	29.2	29.5	29.1	29.3	27.4	27.1	27.2
24	25.6	24.9	25.3	29.2	28.7	28.9	29.5	28.9	29.2	27.2	27.0	27.1
25	26.1	25.2	25.7	29.0	28.5	28.7	29.3	28.8	29.1	27.0	26.6	26.7
26	26.1	25.9	26.0	29.5	28.6	29.0	28.9	28.1	28.3	26.6	26.2	26.4
27	26.2	25.7	26.0	30.2	29.2	29.7	28.4	28.1	28.2	26.7	26.3	26.5
28	26.0	25.7	25.9	30.3	29.8	30.0	28.1	27.8	28.0	26.6	26.0	26.3
29	25.9	25.5	25.7	30.4	30.0	30.2	28.0	27.7	27.9	26.2	25.7	25.9
30	26.0	25.1	25.5	30.1	29.2	29.7	28.3	27.8	28.0	26.0	25.3	25.5
31	---	---	---	29.2	27.5	28.5	28.5	28.1	28.3	---	---	---
MONTH	27.3	20.9	24.5	30.4	26.0	28.5	30.0	26.9	28.7	29.0	25.2	26.7

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.8	5.2	5.5	5.9	5.4	5.7	9.3	8.9	9.1	---	---	---
2	6.1	5.6	5.9	5.5	4.8	5.4	9.6	9.1	9.3	---	---	---
3	6.2	5.8	6.0	5.4	5.1	5.2	9.6	9.2	9.4	10.7	10.3	10.5
4	6.2	5.9	6.1	5.7	5.2	5.4	9.4	9.2	9.3	10.3	9.8	10.1
5	6.2	5.8	6.0	6.0	5.5	5.7	9.5	9.2	9.4	10.1	9.8	9.9
6	6.3	5.8	6.0	6.2	5.8	6.0	9.4	9.2	9.3	9.9	9.6	9.7
7	6.1	5.8	6.0	6.3	5.8	6.1	9.3	9.0	9.1	9.8	9.2	9.6
8	---	---	---	6.1	5.7	5.8	9.0	8.7	8.9	9.8	9.3	9.6
9	---	---	---	6.4	5.8	6.1	8.9	8.7	8.8	9.7	9.2	9.4
10	---	---	---	7.0	6.3	6.8	8.9	8.6	8.7	9.8	9.2	9.5
11	---	---	---	7.4	6.8	7.2	9.0	8.5	8.8	---	---	---
12	---	---	---	7.8	7.3	7.5	9.0	8.8	8.9	10.1	9.5	9.8
13	---	---	---	7.9	7.7	7.8	9.0	8.8	8.9	10.0	9.4	9.6
14	6.1	5.7	5.9	8.0	7.7	7.8	9.3	8.8	9.0	9.5	8.7	9.0
15	6.1	5.8	6.0	8.1	7.8	7.9	9.7	9.2	9.4	9.5	8.7	9.0
16	6.2	5.8	6.0	8.1	7.8	8.0	10.0	9.6	9.8	10.0	9.4	9.6
17	6.3	6.0	6.1	8.6	8.0	8.3	10.0	9.9	10	9.9	9.5	9.8
18	6.5	6.2	6.3	9.1	8.4	8.8	10.0	9.8	9.9	---	---	---
19	6.4	6.1	6.3	8.9	8.2	8.8	9.8	9.5	9.7	---	---	---
20	6.3	6.0	6.2	9.0	8.4	8.8	10.1	9.5	9.8	---	---	---
21	6.3	6.1	6.2	8.8	8.3	8.5	10.4	10.0	10.3	---	---	---
22	6.4	6.0	6.3	8.4	8.1	8.2	10.4	10.1	10.3	---	---	---
23	6.4	6.0	6.2	8.5	8.2	8.3	10.4	9.8	10.1	---	---	---
24	6.5	6.2	6.3	8.4	8.3	8.4	9.9	9.6	9.8	---	---	---
25	6.4	6.1	6.3	8.7	8.4	8.5	10.2	9.8	10	11.1	10.8	10.9
26	6.7	6.2	6.4	8.7	8.4	8.5	10.8	10.1	10.4	11.2	10.9	11.1
27	6.6	6.3	6.5	8.8	8.5	8.6	11.2	10.7	10.9	11.1	10.8	11.0
28	6.4	6.2	6.3	8.9	8.5	8.7	11.5	11.1	11.3	11.5	10.9	11.1
29	6.5	6.2	6.3	9.2	8.6	8.9	---	---	---	11.8	11.2	11.4
30	6.4	6.0	6.2	9.4	8.8	9.2	---	---	---	11.8	11.4	11.6
31	6.2	5.8	6.0	---	---	---	---	---	---	11.7	11.2	11.4
MONTH	---	---	---	9.4	4.8	7.5	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	11.7	11.2	11.5	10.8	10.4	10.7	10.1	9.4	9.7	---	---	---
2	11.8	11.3	11.6	10.9	10.7	10.8	9.9	9.3	9.5	---	---	---
3	11.8	11.4	11.5	11.0	10.8	10.9	9.9	9.1	9.4	---	---	---
4	11.6	11.2	11.4	11.3	10.9	11.1	9.8	9.0	9.4	---	---	---
5	11.5	11.1	11.3	11.6	11.3	11.4	9.6	8.8	9.2	---	---	---
6	11.5	11.1	11.3	11.7	11.5	11.6	9.4	8.4	8.9	---	---	---
7	11.4	11.2	11.3	11.7	11.5	11.6	9.2	8.0	8.6	---	---	---
8	11.5	11.2	11.3	11.6	11.3	11.4	8.9	7.4	8.0	---	---	---
9	11.5	11.1	11.3	11.6	11.3	11.4	8.8	7.1	7.9	---	---	---
10	11.4	10.9	11.0	11.5	11.2	11.4	9.2	7.6	8.4	---	---	---
11	11.0	10.8	10.9	11.3	10.9	11.1	9.1	7.7	8.4	7.3	6.8	7.0
12	11.1	10.9	11.0	11.3	10.9	11.1	8.8	7.6	8.0	7.2	6.8	7.0
13	11.2	10.9	11.0	11.3	11.1	11.2	7.9	7.1	7.3	7.2	6.5	7.0
14	11.2	10.9	11.0	11.3	10.9	11.2	8.5	7.0	7.6	6.9	6.6	6.8
15	11.1	10.8	11.0	11.5	11.1	11.3	8.8	7.6	8.2	6.9	6.2	6.7
16	11.0	10.6	10.8	11.6	11.2	11.3	8.9	8.0	8.5	6.6	6.1	6.3
17	10.8	10.5	10.6	11.6	11.2	11.4	8.9	8.1	8.5	6.6	6.2	6.4
18	10.9	10.4	10.7	11.6	11.3	11.4	8.8	8.0	8.4	6.5	6.1	6.3
19	10.9	10.6	10.7	11.7	11.3	11.5	8.8	8.0	8.4	6.4	5.8	6.2
20	11.2	10.8	11.0	11.8	11.5	11.6	8.6	7.8	8.2	6.4	5.8	6.2
21	11.3	11.0	11.2	11.7	11.4	11.6	8.3	7.6	7.9	6.8	6.3	6.5
22	11.2	11.0	11.1	11.8	11.4	11.6	8.0	7.2	7.6	6.8	6.3	6.5
23	11.0	10.8	10.9	11.6	10.8	11.1	7.7	7.0	7.3	6.9	6.5	6.7
24	10.8	10.5	10.7	10.8	10.2	10.5	---	---	---	7.0	6.5	6.7
25	10.6	10.4	10.5	10.6	10.2	10.4	---	---	---	7.0	6.5	6.8
26	10.7	10.3	10.5	10.3	9.8	10.1	---	---	---	6.9	6.4	6.6
27	10.9	10.6	10.8	10.1	9.6	9.9	---	---	---	6.9	6.5	6.7
28	11.1	10.7	10.9	9.9	9.5	9.7	---	---	---	6.9	6.5	6.7
29	---	---	---	9.9	9.3	9.6	---	---	---	6.8	6.5	6.6
30	---	---	---	10.2	9.3	9.7	---	---	---	6.6	6.2	6.4
31	---	---	---	10.1	9.5	9.7	---	---	---	6.7	6.2	6.4
MONTH	11.8	10.3	11.0	11.8	9.3	10.9	---	---	---	---	---	---

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	6.1	6.3	5.0	4.6	4.8	5.0	4.6	4.8	5.9	5.6	5.8
2	6.6	6.0	6.4	5.1	4.7	4.9	4.8	4.5	4.6	5.9	5.6	5.8
3	6.5	6.0	6.3	5.2	4.7	5.0	5.0	4.5	4.7	5.9	5.5	5.7
4	6.2	5.9	6.0	5.2	4.6	4.9	4.9	4.6	4.7	6.1	5.5	5.8
5	6.3	6.0	6.1	5.2	4.8	5.0	5.1	4.7	4.9	6.2	5.8	6.0
6	6.3	6.0	6.2	5.0	4.7	4.9	5.1	4.9	5.0	6.3	5.8	6.1
7	6.2	6.0	6.1	5.2	4.8	5.0	5.0	4.8	4.9	6.4	5.9	6.1
8	6.1	5.9	6.0	5.4	5.0	5.2	5.1	4.8	5.0	6.4	6.0	6.2
9	6.2	5.8	6.0	5.5	5.1	5.3	5.4	5.0	5.1	6.5	6.2	6.3
10	6.3	6.0	6.1	5.2	4.9	5.1	5.2	4.9	5.1	6.6	6.2	6.4
11	6.2	5.6	5.9	5.1	4.7	4.9	5.1	4.7	4.9	6.7	6.2	6.4
12	6.0	5.6	5.8	5.2	4.8	5.0	5.4	4.9	5.1	6.6	6.1	6.4
13	5.9	5.7	5.8	5.5	5.0	5.3	5.8	5.0	5.4	6.4	5.9	6.2
14	6.0	5.6	5.8	5.6	5.2	5.4	5.8	5.5	5.6	6.4	6.0	6.2
15	6.0	5.6	5.7	5.6	5.4	5.5	5.6	5.4	5.5	6.5	5.8	6.3
16	5.9	5.6	5.8	5.8	5.4	5.6	5.7	5.4	5.5	5.8	5.3	5.5
17	5.8	5.4	5.6	---	---	---	5.7	5.5	5.6	5.7	5.1	5.4
18	5.8	5.4	5.6	---	---	---	5.7	5.5	5.6	5.8	5.3	5.6
19	5.8	5.3	5.6	---	---	---	5.7	5.4	5.6	5.9	5.4	5.7
20	5.5	5.2	5.4	---	---	---	5.9	5.4	5.6	5.8	5.3	5.5
21	5.6	5.3	5.4	5.5	5.3	5.4	---	---	---	5.8	5.4	5.6
22	5.6	5.1	5.4	5.5	5.2	5.4	---	---	---	5.8	5.4	5.5
23	6.0	5.5	5.7	5.4	5.2	5.3	---	---	---	5.8	5.3	5.5
24	6.1	5.7	5.9	5.3	4.9	5.2	---	---	---	5.9	5.4	5.6
25	---	---	---	5.0	4.8	4.9	---	---	---	6.0	5.3	5.7
26	---	---	---	4.9	4.7	4.8	---	---	---	6.0	5.5	5.7
27	---	---	---	4.9	4.6	4.7	6.0	5.6	5.8	6.1	5.6	5.8
28	5.8	5.5	5.7	5.0	4.6	4.8	6.0	5.6	5.8	6.2	5.7	5.9
29	5.9	5.3	5.6	5.5	4.9	5.2	6.0	5.7	5.9	6.3	5.8	6.1
30	5.3	4.4	4.8	5.4	4.5	5.0	6.0	5.7	5.8	6.2	5.9	6.0
31	---	---	---	5.1	4.4	4.7	5.9	5.7	5.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	6.7	5.1	5.9

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	69	61	65	63	58	61	88	84	86	---	---	---
2	73	66	70	59	52	57	90	86	88	---	---	---
3	73	68	71	58	55	56	90	85	87	89	86	88
4	74	70	72	61	56	58	88	85	86	88	85	86
5	73	68	71	63	58	60	88	85	87	89	85	87
6	73	67	69	65	61	63	87	84	85	89	85	87
7	70	66	68	65	60	63	86	82	84	88	82	86
8	---	---	---	63	58	60	84	82	83	89	83	86
9	---	---	---	64	58	62	84	82	83	87	82	84
10	---	---	---	70	63	67	85	81	83	87	81	84
11	---	---	---	73	67	71	86	81	84	---	---	---
12	---	---	---	77	72	74	84	83	84	90	84	87
13	---	---	---	78	75	77	84	81	83	89	85	87
14	68	64	66	78	75	76	84	81	82	88	80	83
15	68	64	66	78	75	76	85	82	84	84	78	81
16	68	63	66	77	74	76	87	84	86	87	82	84
17	68	65	66	81	75	78	86	84	85	86	81	83
18	70	67	68	85	79	83	85	84	84	---	---	---
19	70	67	68	85	78	84	84	81	83	---	---	---
20	69	66	67	86	81	84	83	80	82	---	---	---
21	69	66	67	85	81	83	85	81	83	---	---	---
22	69	64	68	82	79	80	86	83	84	---	---	---
23	68	64	66	84	80	82	86	83	85	---	---	---
24	68	65	67	84	82	83	84	81	83	---	---	---
25	67	63	65	87	83	85	83	80	82	86	84	85
26	70	64	66	86	82	84	84	81	83	87	84	86
27	68	65	67	86	83	84	86	82	84	87	84	85
28	67	64	65	87	83	85	88	85	86	87	82	84
29	68	64	66	87	83	85	---	---	---	89	83	85
30	67	63	65	89	83	87	---	---	---	89	86	88
31	66	62	63	---	---	---	---	---	---	90	84	87
MONTH	---	---	---	89	52	74	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	90	85	87	90	85	88	97	88	93	---	---	---
2	91	85	88	91	88	89	95	89	92	---	---	---
3	91	87	88	91	88	89	95	85	90	---	---	---
4	90	85	88	93	88	91	96	84	89	---	---	---
5	89	85	87	95	92	93	96	84	89	---	---	---
6	91	86	89	96	93	95	95	82	88	---	---	---
7	91	88	89	97	94	96	94	80	88	---	---	---
8	93	89	91	97	94	95	91	75	82	---	---	---
9	94	90	92	97	93	95	91	72	81	---	---	---
10	94	90	91	96	93	95	94	75	84	---	---	---
11	91	89	90	95	92	94	94	76	85	77	73	75
12	91	89	90	96	92	94	90	76	80	78	74	76
13	92	90	91	97	94	95	78	68	71	78	70	76
14	92	90	90	97	93	95	82	66	72	75	71	73
15	92	89	91	98	94	96	85	71	78	76	68	73
16	92	90	91	99	95	96	86	75	81	73	67	70
17	91	89	90	97	94	95	87	76	82	73	68	70
18	92	88	90	98	94	96	87	76	82	73	68	70
19	92	89	90	99	95	97	89	78	83	72	65	70
20	93	90	92	101	97	99	88	78	83	72	65	70
21	94	91	93	101	98	99	86	78	82	76	70	72
22	94	91	92	102	98	100	84	75	79	76	69	73
23	93	91	92	102	96	98	82	74	77	77	72	74
24	91	88	90	97	91	95	---	---	---	79	72	75
25	89	87	88	96	91	94	---	---	---	78	72	76
26	90	86	88	95	88	92	---	---	---	78	71	74
27	91	89	90	92	87	90	---	---	---	78	72	75
28	91	88	90	92	87	89	---	---	---	79	73	75
29	---	---	---	93	85	89	---	---	---	78	74	75
30	---	---	---	98	86	91	---	---	---	76	70	74
31	---	---	---	97	89	92	---	---	---	77	71	73
MONTH	94	85	90	102	85	94	---	---	---	---	---	---

02081094 ROANOKE RIVER AT JAMESVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	75	70	72	63	57	60	64	58	60	77	72	75
2	75	68	72	65	59	62	61	57	59	77	72	75
3	74	68	71	66	60	63	64	57	59	77	71	74
4	71	67	69	67	59	62	63	59	61	79	71	75
5	72	68	70	67	61	64	66	60	63	79	74	77
6	73	68	71	65	60	63	67	63	65	80	74	77
7	72	70	71	68	62	64	66	63	65	80	74	76
8	73	69	71	70	64	67	67	63	65	80	74	78
9	74	68	71	71	66	68	70	65	67	81	77	78
10	75	71	73	68	63	65	68	64	66	81	76	78
11	75	67	70	66	61	63	67	61	64	82	76	78
12	74	67	71	68	63	65	71	64	67	81	75	78
13	72	69	71	71	65	68	76	65	71	79	73	76
14	74	68	71	72	67	69	77	72	74	79	74	77
15	74	68	70	72	68	71	74	71	72	80	71	77
16	73	68	71	75	69	72	75	71	72	71	65	67
17	73	68	70	---	---	---	75	71	73	71	63	67
18	73	68	71	---	---	---	74	71	72	72	66	69
19	72	66	70	---	---	---	74	70	72	74	68	72
20	67	64	66	---	---	---	77	70	73	73	67	70
21	69	64	67	72	68	70	---	---	---	74	68	71
22	69	62	66	72	68	70	---	---	---	74	68	70
23	74	67	70	71	68	70	---	---	---	73	67	70
24	74	69	72	69	64	67	---	---	---	75	68	70
25	---	---	---	65	62	63	---	---	---	75	66	71
26	---	---	---	64	61	63	---	---	---	75	68	72
27	---	---	---	64	60	63	77	72	74	76	70	73
28	72	68	70	67	61	64	77	72	75	77	71	74
29	72	65	69	73	65	69	77	73	75	78	72	75
30	65	54	59	72	59	66	77	73	75	76	69	74
31	---	---	---	66	57	61	76	73	75	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	82	63	74

0208111310 CASHIE RIVER AT SECONDARY ROAD 1257 NEAR WINDSOR, NC

LOCATION.--Lat 36°02'52", long 76°59'03", Bertie County, Hydrologic Unit 03010107, at downstream side of bridge on Secondary Road 1257, 2.0 mi upstream from State Highway 13 near Windsor.

DRAINAGE AREA.--108 mi^2.

PERIOD OF RECORD.--1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 15 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those below 5 ft^3/s, which are poor. Maximum discharge for period of record, from rating curve extended above 5,500 ft^3/s on basis of logarithmic plotting. Maximum gage height for period of record, from flood mark. Periods of no flow occur most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e7.0	4.8	44	81	112	192	161	16	15	3.0	28	2.0
2	5.6	6.5	43	97	116	259	155	15	18	6.4	12	1.7
3	5.4	9.8	41	119	127	286	187	14	24	7.2	8.7	1.3
4	5.3	16	39	121	141	266	207	12	24	4.9	8.4	0.94
5	e5.0	19	38	109	150	206	193	10	21	3.3	6.1	0.63
6	e4.0	18	37	94	141	154	225	54	18	4.0	4.2	0.44
7	3.7	15	36	81	135	121	194	186	30	3.3	3.3	0.41
8	2.7	13	34	70	133	108	183	285	99	2.4	3.2	0.28
9	1.9	13	34	63	122	113	178	256	94	2.0	3.4	0.17
10	1.5	11	37	57	108	129	164	229	105	1.7	3.5	0.10
11	1.1	10	38	53	94	129	159	183	91	3.0	3.0	0.05
12	0.93	15	40	49	81	156	175	131	60	2.8	3.1	0.02
13	1.5	43	39	46	73	164	186	86	40	2.0	2.7	0.01
14	2.9	58	36	62	68	134	225	59	32	1.7	2.3	0.01
15	3.6	69	42	117	68	108	242	45	33	1.8	2.1	0.01
16	4.3	76	60	216	68	97	215	51	28	2.1	2.2	0.00
17	4.6	75	57	367	71	130	205	57	20	3.2	4.0	0.00
18	5.3	65	49	406	67	252	174	53	14	3.7	3.0	0.00
19	7.1	57	44	292	65	356	139	45	9.3	3.4	6.2	0.00
20	8.0	51	40	203	63	454	111	52	6.0	3.0	6.4	0.00
21	11	46	36	156	61	452	88	57	4.1	3.0	4.2	0.00
22	17	40	33	130	58	368	70	55	2.0	2.9	3.7	0.00
23	14	39	33	121	55	326	62	48	0.93	2.9	3.5	0.00
24	13	38	33	120	57	362	54	48	0.31	2.7	3.5	0.00
25	13	37	32	113	64	385	46	65	0.09	2.5	3.2	0.00
26	13	37	33	105	74	340	40	55	0.04	2.2	3.0	0.00
27	11	35	37	97	73	291	34	47	0.05	1.8	3.0	0.00
28	10	38	42	87	104	255	28	39	0.15	1.3	2.9	0.00
29	8.5	39	47	76	---	227	21	32	3.4	1.2	2.8	0.00
30	7.2	42	56	85	---	210	19	25	4.4	7.0	2.8	0.00
31	6.0	---	66	95	---	187	---	20	---	32	2.4	---
TOTAL	205.13	1,036.1	1,276	3,888	2,549	7,217	4,140	2,330	796.77	124.4	150.8	8.07
MEAN	6.62	34.5	41.2	125	91.0	233	138	75.2	26.6	4.01	4.86	0.27
MAX	17	76	66	406	150	454	242	285	105	32	28	2.0
MIN	0.93	4.8	32	46	55	97	19	10	0.04	1.2	2.1	0.00
CFSM	0.06	0.32	0.38	1.16	0.84	2.16	1.28	0.70	0.25	0.04	0.05	0.00
IN.	0.07	0.36	0.44	1.34	0.88	2.49	1.43	0.80	0.27	0.04	0.05	0.00

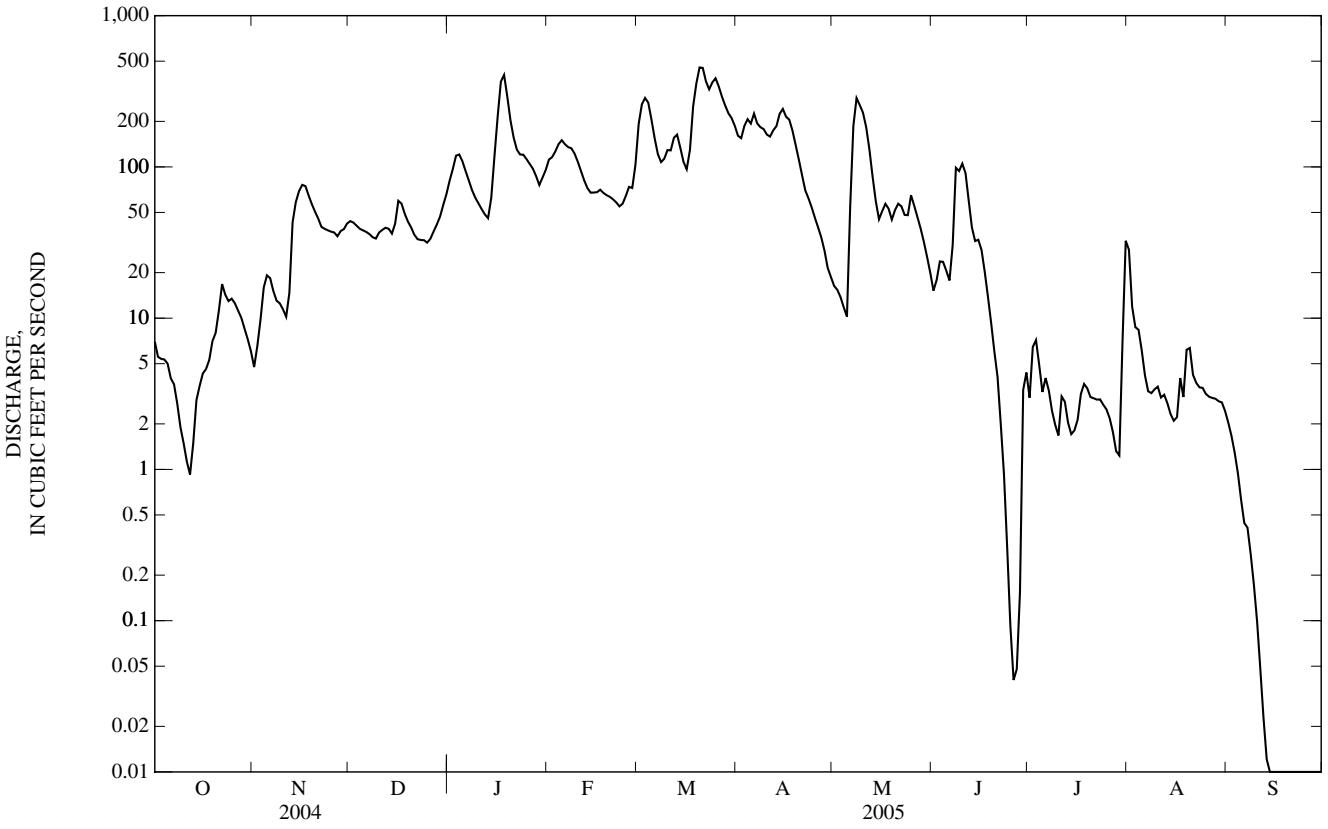
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	65.7	50.3	97.1	169	202	224	137	62.3	69.6	28.9	104	164
MAX	614	195	360	509	651	663	367	321	487	102	610	1,838
(WY)	(2000)	(2003)	(2004)	(1993)	(1998)	(1989)	(2003)	(1989)	(2001)	(1991)	(2004)	(1999)
MIN	0.00	0.07	0.41	26.6	49.5	54.2	5.25	1.07	0.01	0.00	0.01	0.00
(WY)	(1995)	(2002)	(2002)	(2001)	(2002)	(2002)	(1995)	(1994)	(1994)	(1994)	(1993)	(1994)

0208111310 CASHIE RIVER AT SECONDARY ROAD 1257 NEAR WINDSOR, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	40,646.33		23,721.27			
ANNUAL MEAN	111		65.0		116	
HIGHEST ANNUAL MEAN					220	2003
LOWEST ANNUAL MEAN					20.9	2002
HIGHEST DAILY MEAN	4,110	Aug 16	454	Mar 20	14,500	Sep 17, 1999
LOWEST DAILY MEAN	0.31	Jun 18	0.00	Sep 16	0.00	Jul 30, 1987
ANNUAL SEVEN-DAY MINIMUM	0.53	Jun 12	0.00	Sep 16	0.00	Oct 8, 1987
MAXIMUM PEAK FLOW			471	Mar 20	15,700*	Sep 16, 1999
MAXIMUM PEAK STAGE			6.43	Mar 20	18.52*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			0.00*	Sep 16	0.00*	Jul 29, 1987
ANNUAL RUNOFF (CFSM)	1.03		0.602		1.07	
ANNUAL RUNOFF (INCHES)	14.00		8.17		14.53	
10 PERCENT EXCEEDS	187		186		276	
50 PERCENT EXCEEDS	51		37		34	
90 PERCENT EXCEEDS	4.0		1.3		0.07	

* See REMARKS.
e Estimated.



0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC

LOCATION.--Lat 35°54'54", long 76°43'22", Bertie County, Hydrologic Unit 03010107, on right bank 10 ft upstream from bridge. Water quality monitor located near center of river on south bridge fender of shipping channel, 10 ft upstream from State Highway 45 bridge, approximately 1.6 mi upstream from mouth, and 2.7 mi northwest of Westover.

DRAINAGE AREA.--9,660 mi^2.

ELEVATION RECORDS

PERIOD OF RECORD.--October 1990 to September 1993. August 1996 to current year. Records from August 1996 to September 1997 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

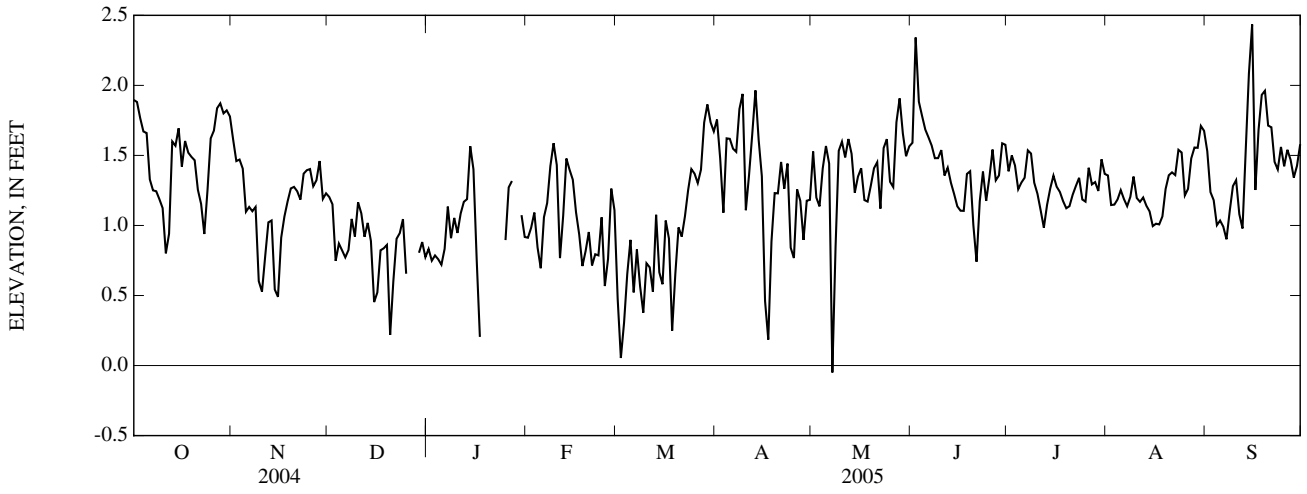
GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. Satellite telemetry at water-quality station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4.68 ft, Sept. 16, 1999; minimum elevation, -1.20 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.89 ft, Sept. 15; minimum elevation, -0.48, May 9.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.90	1.61	1.20	0.83	0.91	0.48	1.76	1.53	1.59	1.39	1.36	1.53
2	1.88	1.46	1.15	0.75	0.98	0.05	1.48	1.20	2.34	1.50	1.15	1.24
3	1.77	1.47	0.75	0.79	1.09	0.31	1.09	1.14	1.88	1.43	1.15	1.18
4	1.67	1.41	0.87	0.76	0.84	0.65	1.62	1.41	1.78	1.26	1.19	1.00
5	1.66	1.10	0.82	0.72	0.69	0.90	1.62	1.57	1.68	1.31	1.25	1.04
6	1.33	1.13	0.77	0.83	1.06	0.52	1.55	1.44	1.63	1.34	1.19	0.99
7	1.25	1.10	0.82	1.13	1.16	0.83	1.53	-0.05	1.57	1.54	1.14	0.90
8	1.24	1.13	1.05	0.91	1.42	0.57	1.83	0.85	1.48	1.51	1.20	1.10
9	1.19	0.60	0.92	1.05	1.59	0.38	1.94	1.53	1.48	1.31	1.35	1.28
10	1.12	0.53	1.17	0.95	1.43	0.73	1.11	1.60	1.54	1.23	1.20	1.32
11	0.80	0.78	1.09	1.08	0.77	0.70	1.36	1.49	1.36	1.11	1.17	1.08
12	0.94	1.02	0.92	1.17	1.07	0.53	1.65	1.62	1.41	0.98	1.20	0.98
13	1.60	1.04	1.02	1.19	1.48	1.08	1.96	1.51	1.30	1.15	1.14	1.54
14	1.57	0.54	0.89	1.57	1.40	0.67	1.61	1.23	1.22	1.26	1.10	2.08
15	1.69	0.49	0.45	1.40	1.33	0.58	1.35	1.35	1.14	1.36	1.00	2.43
16	1.42	0.91	0.52	0.76	1.09	1.04	0.46	1.41	1.11	1.28	1.01	1.25
17	1.60	1.06	0.82	0.20	0.94	0.91	0.19	1.18	1.10	1.24	1.01	1.68
18	1.52	1.17	0.84	---	0.71	0.25	0.89	1.17	1.37	1.17	1.06	1.93
19	1.49	1.26	0.86	---	0.82	0.66	1.23	1.28	1.39	1.12	1.26	1.96
20	1.47	1.28	0.22	---	0.95	0.99	1.23	1.41	1.00	1.14	1.36	1.71
21	1.25	1.24	0.60	---	0.71	0.92	1.45	1.45	0.74	1.22	1.38	1.70
22	1.15	1.18	0.91	---	0.79	1.07	1.26	1.12	1.17	1.28	1.36	1.45
23	0.94	1.37	0.95	---	0.79	1.25	1.44	1.55	1.38	1.34	1.54	1.40
24	1.25	1.39	1.05	---	1.06	1.40	0.84	1.62	1.18	1.19	1.52	1.56
25	1.62	1.40	0.66	0.90	0.57	1.37	0.77	1.31	1.34	1.17	1.21	1.42
26	1.68	1.28	---	1.27	0.76	1.30	1.26	1.27	1.54	1.41	1.26	1.54
27	1.84	1.32	---	1.32	1.26	1.40	1.18	1.74	1.32	1.29	1.48	1.47
28	1.87	1.46	---	---	1.11	1.74	0.90	1.91	1.36	1.31	1.56	1.34
29	1.80	1.19	0.81	---	---	1.86	1.18	1.66	1.59	1.25	1.55	1.43
30	1.82	1.23	0.88	1.07	---	1.74	1.18	1.49	1.58	1.47	1.71	1.58
31	1.78	---	0.77	0.92	---	1.67	---	1.56	---	1.37	1.68	---
TOTAL	46.11	34.15	---	---	28.78	28.55	38.92	42.55	42.57	39.93	39.74	43.11
MEAN	1.49	1.14	---	---	1.03	0.92	1.30	1.37	1.42	1.29	1.28	1.44
MAX	1.90	1.61	---	---	1.59	1.86	1.96	1.91	2.34	1.54	1.71	2.43
MIN	0.80	0.49	---	---	0.57	0.05	0.19	-0.05	0.74	0.98	1.00	0.90



0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE (TOP): May 2000 to current year.
SPECIFIC CONDUCTANCE (BOTTOM): November 1997 to current year
pH (TOP): May 2000 to current year.
pH (BOTTOM): November 1997 to current year.
WATER TEMPERATURE (TOP): May 2000 to current year.
WATER TEMPERATURE (BOTTOM): November 1997 to current year.
DISSOLVED OXYGEN (TOP): May 2000 to current year.
DISSOLVED OXYGEN (BOTTOM): November 1997 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP): May 2000 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM): November 1997 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from March 1998 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources (DENR), Division of Water Resources to define water-quality characteristics in the Roanoke River Basin below Roanoke Rapids Dam. Top constituents were monitored at approximately 18 ft above the streambed and bottom constituents, 2 ft above the streambed. Dissolved oxygen, percent saturation is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	9,880, February 2, 2002	73, June 20, 21, 2001
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	11,700 February 2, 2002	48, September 21, 1999
pH (TOP), standard units	8.0, August 19, 2002	6.0, June 19, 21, 22, 2001
pH (BOTTOM), standard units	7.7, June 17, 2000	5.8, March 4, 1998, September 18-22, 1999
WATER TEMPERATURE (TOP), °C	32.1, July 27, 2005	2.5, January 24, 2003
WATER TEMPERATURE (BOTTOM), °C	31.0, July 30, 1998, August 2, 1999	2.5, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	12.6, February 22, 2003	<1.0, on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	14.0, January 6, 7, 2001, January 11, 2002	<1.0, on many days during the period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	115, May 11, 2003	<10, on many days during the period
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, September 15, 2005	< 10, on many days during the period

EXTREMES FOR CURRENT WATER YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	649, September 15	104, March 9
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	697, September 15	104, March 9
pH (TOP), standard units	7.6, February 17, 23, 24	6.6, August 2, 3
pH (BOTTOM), standard units	7.6, February 23, 24, 25, March 8	6.5, December 24, 25
WATER TEMPERATURE (TOP), C	32.1, July 27	3.3, January 29, 30
WATER TEMPERATURE (BOTTOM), C	30.9, July 28	3.2, January 30
DISSOLVED OXYGEN (TOP), mg/L	11.7, February 2, 3, 4	3.4, August 3, 4
DISSOLVED OXYGEN (BOTTOM), mg/L	11.5, January 30, February 2, 3	2.9, August 5
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	113, July 6, 7	43, August 3
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, September 15	37, July 3, August 5

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	146	128	136	130	124	127	141	131	136	116	113	114
2	138	124	129	130	125	127	145	132	136	116	113	115
3	147	123	130	137	127	131	137	129	132	117	115	116
4	134	127	129	135	128	131	135	128	132	117	114	116
5	136	122	130	137	126	131	132	127	130	119	116	117
6	131	123	127	136	130	133	132	128	130	121	116	118
7	131	116	126	137	130	134	132	128	130	123	117	120
8	135	126	131	175	128	136	134	127	131	121	117	119
9	135	126	131	139	131	136	136	129	132	126	117	120
10	135	126	131	144	136	139	134	125	129	124	119	120
11	136	127	131	146	134	141	134	122	127	124	119	121
12	138	128	132	149	135	142	131	123	127	126	119	122
13	141	128	134	149	133	141	130	123	126	126	120	122
14	140	124	128	147	135	140	127	119	122	139	121	126
15	132	124	129	147	137	141	123	118	120	126	118	121
16	133	121	125	149	139	145	125	119	121	122	117	120
17	138	120	127	147	134	142	126	121	123	127	117	120
18	130	121	126	143	131	136	125	120	122	121	114	117
19	129	123	126	139	129	135	123	119	122	121	116	118
20	133	126	129	141	130	135	127	116	118	126	115	120
21	138	131	134	142	131	135	124	118	120	122	117	120
22	136	131	134	142	131	136	124	119	120	122	117	119
23	137	127	132	150	134	139	121	118	120	121	113	116
24	135	129	132	150	133	138	129	114	117	119	113	116
25	140	126	134	161	132	141	116	114	115	122	116	119
26	131	123	126	146	132	138	115	111	113	121	117	119
27	131	124	127	143	134	138	113	110	111	124	115	117
28	130	123	126	143	130	136	115	111	113	117	114	115
29	128	121	124	140	131	136	116	113	114	117	113	114
30	128	121	125	140	134	137	115	113	114	116	113	114
31	129	123	126	---	---	---	115	113	114	114	111	112
MONTH	147	116	129	175	124	137	145	110	123	139	111	118
		FEBRUARY			MARCH			APRIL			MAY	
1	115	111	113	205	135	151	137	118	122	165	135	146
2	116	112	114	225	136	154	137	111	118	149	138	143
3	117	113	115	171	145	155	116	110	113	156	140	145
4	117	113	115	165	145	157	163	112	117	173	129	148
5	122	113	117	168	134	146	120	115	117	183	132	159
6	124	115	120	145	132	137	118	113	116	234	124	146
7	132	118	123	148	134	142	118	111	115	138	123	129
8	134	124	128	154	105	136	121	114	118	140	132	136
9	134	123	128	124	104	106	127	113	117	149	128	142
10	136	123	128	146	122	133	117	109	112	166	129	141
11	131	118	124	144	133	137	142	114	117	155	124	134
12	135	125	130	156	127	136	137	113	118	138	111	129
13	143	127	134	145	127	136	120	112	115	210	121	131
14	143	126	131	143	126	132	113	109	111	131	124	128
15	137	129	133	145	130	136	121	108	113	135	128	132
16	138	130	134	154	131	140	118	110	114	143	126	134
17	192	129	144	146	123	133	123	115	118	143	131	136
18	157	140	147	133	125	129	127	123	124	144	128	136
19	165	140	147	136	130	133	132	125	128	147	131	140
20	179	141	152	133	127	131	132	126	129	150	136	144
21	155	138	144	132	118	125	134	115	130	196	141	154
22	155	144	148	127	118	121	185	126	133	150	141	145
23	160	127	143	124	116	119	143	128	135	151	142	147
24	186	112	143	123	113	117	145	130	135	211	131	149
25	163	130	145	120	114	116	135	122	128	247	132	146
26	157	143	149	120	111	114	133	123	127	155	135	145
27	175	144	155	120	112	116	128	112	123	192	137	152
28	184	123	150	126	115	119	129	112	120	162	139	147
29	---	---	---	126	115	120	139	112	126	188	128	138
30	---	---	---	123	118	120	150	137	141	138	126	133
31	---	---	---	125	118	121	---	---	---	156	123	136
MONTH	192	111	134	225	104	131	185	108	122	247	111	141

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	140	112	129	163	144	154	168	134	139	252	161	193
2	161	112	132	174	134	151	148	120	134	247	198	210
3	161	124	132	187	122	170	145	132	138	217	209	212
4	141	124	128	171	156	166	155	134	141	239	196	224
5	136	127	132	197	169	187	158	147	154	240	137	195
6	144	130	137	199	168	188	171	158	164	250	154	212
7	146	135	139	203	138	187	181	165	171	225	183	209
8	156	140	146	243	155	187	189	175	183	279	186	219
9	159	140	148	222	153	179	207	178	193	243	176	228
10	158	143	149	187	168	179	205	170	184	247	144	196
11	156	143	149	215	174	192	182	172	176	326	144	222
12	159	147	153	211	186	195	191	167	182	274	164	214
13	162	143	153	231	154	191	189	158	175	255	154	195
14	174	144	153	204	150	166	171	161	165	497	200	262
15	162	113	138	179	158	164	169	159	164	649	268	432
16	168	128	149	165	138	149	174	142	159	268	178	214
17	195	145	155	156	116	137	161	139	146	202	168	177
18	168	148	156	160	116	129	171	140	151	223	195	207
19	166	127	152	169	140	150	169	153	160	298	197	243
20	183	146	162	165	149	153	183	156	169	202	169	182
21	176	147	160	167	144	152	175	149	161	228	169	197
22	195	151	175	165	141	150	181	150	164	221	172	187
23	174	141	160	159	136	143	152	136	144	213	174	201
24	167	139	153	173	137	145	184	136	157	234	149	196
25	171	154	162	166	144	153	163	133	143	264	168	209
26	222	131	151	182	149	160	177	139	153	199	173	190
27	221	135	154	200	140	167	218	171	199	241	185	201
28	172	148	164	220	162	185	249	190	222	233	171	190
29	183	163	171	192	158	170	220	151	167	185	174	178
30	184	141	155	177	149	161	176	160	168	292	154	197
31	---	---	---	168	148	156	188	169	179	---	---	---
MONTH	222	112	150	243	116	165	249	120	165	649	137	213
YEAR	649	104	144									

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	149	128	138	130	124	127	141	131	136	116	114	115
2	140	124	129	131	125	128	144	131	136	117	114	115
3	149	123	131	137	128	132	136	128	132	118	115	117
4	135	123	129	134	125	130	135	127	131	118	115	116
5	137	124	131	137	127	131	132	127	129	119	116	117
6	134	122	128	138	130	134	131	127	129	121	117	119
7	133	114	127	138	131	134	131	126	128	124	119	120
8	136	126	131	180	129	137	134	126	130	122	118	120
9	135	126	130	139	128	137	134	129	131	126	119	121
10	134	126	131	143	135	139	132	125	128	124	120	121
11	137	127	131	146	135	141	134	122	127	124	120	122
12	137	127	132	151	136	143	130	123	127	126	119	122
13	143	128	134	148	134	140	130	123	126	126	120	122
14	140	124	127	146	137	140	127	119	122	137	121	125
15	132	123	128	148	138	141	123	118	120	126	119	121
16	133	121	125	150	139	146	125	119	121	123	118	120
17	138	119	126	147	136	142	126	121	123	127	118	120
18	129	121	125	145	131	138	125	120	122	121	114	117
19	128	123	125	141	130	136	123	119	122	122	117	119
20	133	125	129	141	128	135	127	116	118	126	116	120
21	137	130	134	144	130	135	124	119	120	124	118	121
22	136	131	133	144	129	136	124	119	121	122	118	120
23	136	127	132	152	132	140	121	119	120	121	113	116
24	134	128	131	152	132	139	130	115	118	119	114	117
25	139	125	133	160	132	141	117	115	116	124	117	120
26	130	123	126	146	133	138	116	111	114	123	118	121
27	131	123	126	143	134	137	113	111	112	125	116	119
28	130	122	125	142	130	136	115	112	114	118	116	117
29	127	121	123	139	130	135	116	113	114	118	114	116
30	128	121	125	139	133	136	116	114	115	118	114	116
31	130	123	126	---	---	---	116	114	115	116	112	114
MONTH	149	114	129	180	124	137	144	111	123	137	112	119
		FEBRUARY			MARCH			APRIL			MAY	
1	116	113	114	202	131	148	138	117	121	164	136	148
2	118	114	116	224	132	150	137	110	117	150	138	144
3	118	115	117	165	141	151	115	109	111	156	142	147
4	118	114	116	161	141	153	166	111	116	177	124	149
5	124	114	118	166	132	144	118	113	116	186	135	162
6	126	116	121	142	129	135	116	113	114	238	126	148
7	133	120	124	145	132	140	120	113	116	140	125	130
8	135	125	130	151	105	134	123	118	121	142	134	137
9	135	124	129	124	104	107	130	117	121	152	139	144
10	137	124	130	144	122	132	120	112	116	173	129	143
11	132	119	125	143	132	136	145	118	121	158	126	136
12	136	126	131	157	127	136	141	116	121	141	112	129
13	144	129	135	146	128	136	123	115	118	221	117	130
14	145	127	132	144	127	133	117	112	114	130	122	126
15	138	130	134	144	130	136	123	111	116	134	126	130
16	139	131	135	151	130	139	120	113	117	143	126	132
17	207	129	148	144	121	131	125	117	120	142	128	134
18	159	141	149	131	125	128	129	124	126	145	127	134
19	165	141	149	134	128	131	133	127	130	146	129	139
20	179	143	153	131	124	128	133	128	131	148	134	142
21	156	140	145	130	116	122	136	121	132	195	138	151
22	156	144	150	125	115	119	191	128	135	149	139	144
23	160	133	143	121	113	116	145	131	137	150	142	146
24	184	116	148	120	111	115	147	132	137	219	128	148
25	161	133	145	117	111	113	139	123	131	251	131	145
26	153	138	145	116	109	112	134	125	128	154	134	144
27	167	140	150	118	110	113	131	114	125	190	134	156
28	180	130	149	123	112	116	132	114	123	161	134	145
29	---	---	---	125	114	118	140	114	128	191	127	137
30	---	---	---	122	116	118	153	138	143	137	125	131
31	---	---	---	124	117	120	---	---	---	154	126	134
MONTH	207	113	135	224	104	129	191	109	123	251	112	141

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	139	111	128	162	148	156	164	132	139	255	161	190
2	152	111	130	165	137	150	148	119	134	256	197	215
3	159	122	130	186	150	169	140	133	137	219	209	212
4	141	122	127	177	158	165	157	131	142	239	197	223
5	136	126	131	192	176	189	160	154	157	233	138	197
6	145	128	136	198	183	192	170	157	162	249	154	211
7	148	133	140	198	165	188	178	164	171	227	157	206
8	157	139	147	222	149	186	191	172	182	276	168	225
9	159	139	148	224	150	189	207	178	193	244	192	229
10	158	142	150	185	167	179	204	169	183	247	156	215
11	156	142	148	207	174	191	180	170	177	319	175	225
12	158	145	153	208	184	196	190	177	184	271	139	225
13	164	143	154	234	153	190	189	157	174	254	141	170
14	174	142	152	201	149	167	171	159	164	495	183	250
15	160	111	138	173	157	164	169	159	164	697	267	450
16	172	126	151	165	137	148	174	145	159	267	175	214
17	196	146	156	155	114	136	161	139	145	183	171	175
18	168	148	157	161	114	128	165	141	151	239	174	196
19	167	130	154	167	139	150	168	153	160	306	205	253
20	183	149	161	163	146	151	180	156	169	205	170	185
21	172	149	162	165	139	151	176	147	166	225	170	196
22	193	151	178	161	137	147	180	147	167	222	172	189
23	173	153	163	149	132	139	163	128	147	210	173	199
24	169	138	154	170	132	141	189	136	159	233	149	196
25	173	153	163	161	139	147	164	125	144	259	148	204
26	224	130	153	174	144	156	168	130	149	200	173	189
27	199	134	153	208	167	187	211	153	194	243	187	203
28	171	151	166	213	160	183	258	193	225	237	173	192
29	178	149	166	189	152	167	238	156	175	186	176	183
30	192	140	156	176	149	162	173	162	167	286	151	196
31	---	---	---	166	148	157	188	165	177	---	---	---
MONTH	224	111	150	234	114	165	258	119	165	697	138	214
YEAR	697	104	144									

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.8	6.9	6.9	6.8	6.8	7.0	6.9	7.0	7.1	6.9	6.9
2	6.9	6.9	6.9	6.8	6.8	6.8	7.0	6.9	7.0	6.9	6.8	6.8
3	7.0	6.9	7.0	6.8	6.8	6.8	7.0	6.9	7.0	6.8	6.8	6.8
4	7.0	6.9	7.0	6.8	6.8	6.8	7.1	7.0	7.0	6.9	6.7	6.8
5	7.0	7.0	7.0	6.8	6.8	6.8	7.0	7.0	7.0	6.8	6.7	6.8
6	7.0	7.0	7.0	6.9	6.8	6.8	7.0	7.0	7.0	6.9	6.8	6.8
7	7.0	7.0	7.0	6.9	6.9	6.9	7.0	6.8	6.9	6.8	6.8	6.8
8	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.8	7.1	6.7	6.8
9	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.7	6.8	6.9	6.8	6.8
10	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.7	6.8	6.8	6.8	6.8
11	7.0	7.0	7.0	6.9	6.8	6.8	6.9	6.9	6.9	6.9	6.8	6.8
12	7.0	7.0	7.0	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.8	6.8
13	7.1	7.0	7.0	7.0	6.9	6.9	7.0	7.0	7.0	6.9	6.8	6.8
14	7.1	6.9	7.0	7.0	6.9	6.9	7.0	6.9	6.9	6.9	6.8	6.9
15	7.0	6.9	6.9	7.0	6.9	6.9	7.0	6.9	6.9	6.8	6.8	6.8
16	7.0	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0	6.8	6.8	6.8
17	7.0	6.9	6.9	6.9	6.9	6.9	7.2	7.0	7.0	6.9	6.7	6.9
18	7.0	6.9	6.9	6.9	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.9
19	7.0	6.9	7.0	7.0	6.9	7.0	6.9	6.9	6.9	6.9	6.8	6.9
20	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	7.0	6.8	6.9
21	7.0	6.9	6.9	7.0	7.0	7.0	7.0	6.8	6.9	7.1	6.9	7.0
22	7.0	6.9	7.0	7.0	7.0	7.0	7.0	6.9	6.9	7.2	7.1	7.1
23	7.0	6.9	7.0	7.0	6.9	6.9	6.9	6.8	6.9	7.2	7.1	7.1
24	7.0	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.9	7.2	7.1	7.2
25	7.0	6.9	6.9	6.9	6.8	6.9	6.9	6.8	6.8	7.3	7.1	7.2
26	6.9	6.9	6.9	7.0	6.9	7.0	7.0	6.8	6.9	7.3	7.3	7.3
27	6.9	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.9	7.3	7.3	7.3
28	6.9	6.9	6.9	7.0	6.9	7.0	7.0	6.8	6.9	7.3	7.2	7.3
29	6.9	6.8	6.8	7.0	6.9	7.0	6.9	6.9	6.9	7.2	7.2	7.2
30	6.9	6.8	6.9	7.0	6.9	6.9	6.9	6.7	6.9	7.3	7.2	7.2
31	6.9	6.8	6.9	---	---	---	6.9	6.8	6.9	7.2	7.2	7.2
MONTH	7.1	6.8	6.9	7.0	6.8	6.9	7.2	6.7	6.9	7.3	6.7	7.0
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.2	7.3	7.5	7.3	7.4	7.0	6.9	7.0	7.1	7.1	7.1
2	7.3	7.3	7.3	7.5	7.3	7.3	7.0	6.9	6.9	7.1	7.0	7.1
3	7.3	7.3	7.3	7.4	7.3	7.4	7.0	6.9	6.9	7.1	7.0	7.1
4	7.3	7.3	7.3	7.4	7.3	7.4	7.0	6.9	6.9	7.2	7.0	7.0
5	7.3	7.2	7.3	7.4	7.3	7.4	6.9	6.8	6.9	7.2	7.0	7.1
6	7.2	7.2	7.2	7.4	7.3	7.4	6.9	6.8	6.8	7.2	7.0	7.1
7	7.2	7.2	7.2	7.4	7.4	7.4	7.1	6.8	7.0	7.0	6.8	6.9
8	7.3	7.2	7.2	7.5	7.3	7.4	7.2	7.0	7.1	6.9	6.8	6.8
9	7.3	7.3	7.3	7.4	7.3	7.3	7.1	7.0	7.1	6.9	6.8	6.9
10	7.3	7.3	7.3	7.4	7.4	7.4	7.0	7.0	7.0	6.9	6.8	6.9
11	7.3	7.3	7.3	7.5	7.4	7.4	7.1	7.0	7.1	6.9	6.8	6.8
12	7.3	7.3	7.3	7.4	7.2	7.3	7.1	7.0	7.1	7.0	6.8	6.9
13	7.4	7.3	7.4	7.3	7.2	7.2	7.1	7.0	7.0	7.1	6.9	7.0
14	7.5	7.4	7.4	7.3	7.2	7.3	7.0	6.9	7.0	7.0	6.9	7.0
15	7.5	7.4	7.5	7.4	7.2	7.3	7.3	7.0	7.1	7.0	6.9	7.0
16	7.5	7.4	7.5	7.4	7.4	7.4	7.1	7.1	7.1	7.1	6.9	7.0
17	7.6	7.4	7.5	7.4	7.3	7.4	7.1	7.0	7.0	7.0	6.9	7.0
18	7.4	7.4	7.4	7.4	7.3	7.3	7.0	7.0	7.0	7.0	6.9	6.9
19	7.4	7.4	7.4	7.3	7.3	7.3	7.0	7.0	7.0	7.0	6.9	7.0
20	7.5	7.4	7.5	7.3	7.3	7.3	7.0	7.0	7.0	7.1	7.0	7.0
21	7.5	7.5	7.5	7.3	7.2	7.2	7.0	6.9	7.0	7.1	7.0	7.0
22	7.5	7.5	7.5	7.3	7.2	7.2	7.1	6.9	7.0	7.0	7.0	7.0
23	7.6	7.5	7.5	7.3	7.2	7.2	7.0	6.9	7.0	7.1	7.0	7.0
24	7.6	7.5	7.6	7.2	7.1	7.1	7.0	6.9	7.0	7.2	7.0	7.0
25	7.5	7.4	7.5	7.1	7.0	7.1	7.0	6.9	7.0	7.2	7.0	7.0
26	7.4	7.4	7.4	7.0	7.0	7.0	7.0	7.0	7.0	7.2	7.0	7.0
27	7.5	7.4	7.4	7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.0	7.1
28	7.5	7.3	7.4	7.0	6.9	7.0	7.0	7.0	7.0	7.1	7.0	7.1
29	---	---	---	7.0	6.9	7.0	7.0	7.0	7.0	7.2	7.0	7.0
30	---	---	---	7.0	6.9	6.9	7.2	7.0	7.1	7.0	7.0	7.0
31	---	---	---	7.0	6.9	7.0	---	---	---	7.1	6.9	7.0
MONTH	7.6	7.2	7.4	7.5	6.9	7.2	7.3	6.8	7.0	7.2	6.8	7.0

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.9	7.0	6.9	6.8	6.9	6.9	6.7	6.8	7.2	7.0	7.1
2	7.2	6.9	7.0	6.9	6.8	6.8	6.8	6.6	6.7	7.2	7.0	7.1
3	7.0	6.9	6.9	7.1	6.8	6.8	6.8	6.6	6.7	7.3	7.0	7.1
4	6.9	6.8	6.8	7.2	6.8	6.9	6.8	6.7	6.7	7.1	7.0	7.1
5	6.9	6.8	6.9	7.2	6.9	7.0	7.0	6.7	6.8	7.3	7.0	7.1
6	6.9	6.9	6.9	7.4	6.8	6.9	7.0	6.8	6.9	7.3	7.2	7.2
7	6.9	6.9	6.9	7.4	6.8	6.9	7.2	6.8	6.9	7.3	7.2	7.2
8	7.0	6.9	6.9	7.1	6.8	6.9	7.0	6.9	6.9	7.4	7.1	7.2
9	7.0	6.9	6.9	7.3	6.9	7.0	7.1	6.9	7.0	7.4	7.2	7.2
10	7.0	6.9	6.9	7.2	6.9	7.0	7.0	6.9	7.0	7.3	7.1	7.2
11	7.0	6.9	7.0	7.2	6.9	7.0	7.1	6.9	6.9	7.4	7.2	7.3
12	7.0	6.9	7.0	7.1	6.9	7.0	7.1	6.9	6.9	7.3	7.2	7.2
13	7.0	6.9	7.0	7.0	6.9	6.9	7.1	6.9	6.9	7.3	7.2	7.2
14	7.0	7.0	7.0	7.0	6.8	6.9	7.0	6.9	6.9	7.3	7.2	7.2
15	7.0	6.9	7.0	7.2	6.9	7.1	7.1	7.0	7.0	7.4	7.2	7.3
16	7.1	6.9	7.0	7.2	7.1	7.1	7.1	7.0	7.0	7.2	6.8	7.0
17	7.1	7.0	7.1	7.2	7.1	7.1	7.1	7.0	7.0	6.9	6.8	6.8
18	7.2	7.0	7.1	7.2	7.1	7.1	7.2	7.0	7.1	7.0	6.8	6.9
19	7.3	7.0	7.1	7.2	7.1	7.2	7.1	7.0	7.1	7.1	6.9	7.0
20	7.2	7.1	7.2	7.2	7.1	7.2	7.2	7.0	7.0	7.0	6.9	6.9
21	7.4	7.1	7.2	7.2	7.1	7.2	7.2	7.0	7.1	7.1	6.9	7.0
22	7.2	7.1	7.1	7.2	7.1	7.2	7.1	7.0	7.0	7.1	6.9	7.0
23	7.3	7.0	7.1	7.3	7.1	7.1	7.1	7.0	7.0	7.1	7.0	7.0
24	7.3	7.0	7.0	7.3	7.1	7.1	7.2	7.0	7.1	7.1	6.9	7.0
25	7.3	7.0	7.1	7.2	7.0	7.1	7.2	7.0	7.1	7.2	7.0	7.1
26	7.2	7.0	7.1	7.2	7.0	7.1	7.4	7.0	7.1	7.2	7.1	7.2
27	7.2	7.0	7.0	7.5	7.0	7.1	7.2	7.0	7.1	7.3	7.2	7.2
28	7.1	7.0	7.0	7.5	7.0	7.2	7.3	7.0	7.1	7.3	7.2	7.2
29	7.1	7.0	7.0	7.2	6.9	7.0	7.3	7.0	7.1	7.3	7.2	7.2
30	7.0	6.8	6.9	7.0	6.9	6.9	7.2	7.0	7.1	7.4	7.2	7.3
31	---	---	---	7.0	6.8	6.9	7.2	7.0	7.1	---	---	---
MONTH	7.4	6.8	7.0	7.5	6.8	7.0	7.4	6.6	7.0	7.4	6.8	7.1
YEAR	7.6	6.6	7.0									

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	6.8	6.8	6.9	6.9	6.9	7.0	6.9	7.0	6.6	6.6	6.6
2	6.9	6.9	6.9	6.9	6.8	6.8	7.0	7.0	7.0	6.6	6.6	6.6
3	7.0	6.9	7.0	6.8	6.8	6.8	7.0	7.0	7.0	6.7	6.6	6.6
4	7.0	6.9	7.0	6.8	6.7	6.8	7.0	7.0	7.0	6.7	6.7	6.7
5	7.0	7.0	7.0	6.9	6.8	6.8	7.0	6.9	7.0	6.7	6.6	6.6
6	7.0	7.0	7.0	6.9	6.8	6.9	6.9	6.9	6.9	6.7	6.7	6.7
7	7.1	7.0	7.0	6.9	6.9	6.9	6.9	6.8	6.8	6.7	6.6	6.7
8	7.0	7.0	7.0	7.0	6.9	6.9	6.8	6.8	6.8	6.7	6.6	6.7
9	7.0	7.0	7.0	6.9	6.8	6.9	6.8	6.8	6.8	6.7	6.7	6.7
10	7.0	7.0	7.0	6.9	6.8	6.8	6.8	6.6	6.7	6.7	6.6	6.7
11	7.1	7.0	7.0	6.8	6.8	6.8	6.6	6.6	6.6	6.7	6.6	6.7
12	7.1	7.0	7.1	6.9	6.8	6.9	6.6	6.6	6.6	6.7	6.6	6.7
13	7.1	7.1	7.1	7.0	6.9	7.0	6.6	6.6	6.6	6.8	6.7	6.7
14	7.1	7.0	7.0	7.0	6.9	6.9	6.6	6.6	6.6	6.8	6.8	6.8
15	7.0	7.0	7.0	7.0	6.9	6.9	6.7	6.6	6.7	6.8	6.7	6.7
16	7.0	6.9	7.0	6.9	6.9	6.9	6.7	6.7	6.7	6.8	6.7	6.7
17	7.0	6.9	7.0	6.9	6.9	6.9	6.7	6.7	6.7	6.8	6.8	6.8
18	7.0	7.0	7.0	6.9	6.9	6.9	6.7	6.6	6.7	6.8	6.8	6.8
19	7.0	7.0	7.0	7.0	6.9	7.0	6.6	6.6	6.6	6.8	6.8	6.8
20	7.0	7.0	7.0	7.0	7.0	7.0	6.6	6.6	6.6	6.8	6.8	6.8
21	7.0	7.0	7.0	7.0	7.0	7.0	6.6	6.6	6.6	7.0	6.8	6.9
22	7.0	7.0	7.0	7.0	7.0	7.0	6.6	6.6	6.6	7.0	7.0	7.0
23	7.0	7.0	7.0	7.0	6.8	6.8	6.6	6.6	6.6	7.1	7.0	7.1
24	7.0	7.0	7.0	6.9	6.8	6.8	6.6	6.5	6.6	7.2	7.1	7.1
25	7.0	7.0	7.0	6.9	6.8	6.9	6.6	6.5	6.6	7.3	7.1	7.2
26	7.0	7.0	7.0	7.0	6.9	7.0	6.7	6.6	6.6	7.3	7.2	7.3
27	7.0	7.0	7.0	7.0	6.9	7.0	6.7	6.6	6.7	7.3	7.2	7.3
28	7.0	6.9	7.0	7.0	7.0	7.0	6.7	6.7	6.7	7.3	7.2	7.2
29	6.9	6.9	6.9	7.0	6.9	7.0	6.7	6.7	6.7	7.2	7.2	7.2
30	6.9	6.9	6.9	7.0	6.9	6.9	6.7	6.6	6.7	7.2	7.2	7.2
31	6.9	6.9	6.9	---	---	---	6.6	6.6	6.6	7.3	7.2	7.3
MONTH	7.1	6.8	7.0	7.0	6.7	6.9	7.0	6.5	6.7	7.3	6.6	6.9
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.3	7.3	7.5	7.3	7.4	7.0	6.9	6.9	7.1	7.0	7.1
2	7.3	7.2	7.3	7.5	7.3	7.4	7.0	6.9	6.9	7.1	7.0	7.0
3	7.3	7.3	7.3	7.4	7.3	7.4	6.9	6.9	6.9	7.1	7.0	7.0
4	7.3	7.3	7.3	7.4	7.3	7.4	7.0	6.9	6.9	7.1	7.0	7.0
5	7.3	7.2	7.2	7.4	7.4	7.4	6.9	6.8	6.9	7.1	7.0	7.1
6	7.2	7.2	7.2	7.5	7.4	7.4	6.9	6.8	6.8	7.2	6.9	7.1
7	7.2	7.2	7.2	7.5	7.5	7.5	7.1	6.8	7.0	7.0	6.8	6.8
8	7.3	7.2	7.2	7.6	7.4	7.5	7.2	7.0	7.1	6.8	6.8	6.8
9	7.3	7.3	7.3	7.4	7.3	7.4	7.1	7.0	7.1	6.9	6.8	6.8
10	7.3	7.3	7.3	7.4	7.4	7.4	7.1	7.0	7.0	7.0	6.8	6.9
11	7.4	7.3	7.3	7.4	7.4	7.4	7.2	7.1	7.1	6.9	6.8	6.8
12	7.4	7.4	7.4	7.4	7.3	7.4	7.2	7.1	7.1	6.8	6.7	6.8
13	7.4	7.4	7.4	7.4	7.3	7.3	7.1	6.9	7.0	7.0	6.8	6.8
14	7.5	7.4	7.4	7.4	7.3	7.4	6.9	6.8	6.9	6.8	6.8	6.8
15	7.4	7.4	7.4	7.3	7.3	7.3	7.0	6.9	7.0	6.8	6.8	6.8
16	7.4	7.4	7.4	7.4	7.3	7.3	7.0	7.0	7.0	6.8	6.8	6.8
17	7.5	7.4	7.4	7.4	7.3	7.3	7.0	7.0	7.0	6.8	6.8	6.8
18	7.4	7.3	7.4	7.3	7.2	7.2	7.0	7.0	7.0	6.8	6.8	6.8
19	7.4	7.4	7.4	7.3	7.2	7.2	7.0	7.0	7.0	6.8	6.8	6.8
20	7.5	7.4	7.4	7.3	7.2	7.3	7.0	7.0	7.0	6.9	6.8	6.9
21	7.5	7.4	7.5	7.2	7.2	7.2	7.1	7.0	7.0	6.9	6.8	6.9
22	7.5	7.5	7.5	7.3	7.2	7.3	7.2	7.0	7.0	6.9	6.8	6.8
23	7.6	7.5	7.6	7.3	7.2	7.3	7.1	7.0	7.0	6.9	6.8	6.9
24	7.6	7.6	7.6	7.2	7.1	7.1	7.1	6.9	7.0	7.0	6.8	6.9
25	7.6	7.4	7.5	7.1	7.0	7.1	7.0	6.9	6.9	7.1	6.8	6.9
26	7.4	7.3	7.4	7.0	7.0	7.0	7.0	6.9	7.0	6.9	6.8	6.9
27	7.4	7.3	7.3	7.0	6.9	7.0	7.0	6.9	7.0	7.0	6.8	6.9
28	7.5	7.4	7.4	7.0	6.9	7.0	7.0	6.9	7.0	7.0	6.8	6.9
29	---	---	---	7.0	6.9	7.0	7.0	6.9	7.0	7.0	6.8	6.9
30	---	---	---	7.0	6.9	6.9	7.1	7.0	7.0	6.9	6.8	6.8
31	---	---	---	7.0	6.9	6.9	---	---	---	7.0	6.8	6.8
MONTH	7.6	7.2	7.4	7.6	6.9	7.3	7.2	6.8	7.0	7.2	6.7	6.9

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	6.8	6.8	6.9	6.7	6.8	7.1	6.9	7.0	7.1	6.8	7.0
2	7.1	6.8	6.9	6.8	6.7	6.8	6.9	6.8	6.8	7.1	6.9	7.0
3	6.9	6.8	6.8	6.8	6.7	6.8	6.8	6.8	6.8	7.1	6.9	7.0
4	6.8	6.7	6.7	6.8	6.8	6.8	6.8	6.8	6.8	7.1	7.0	7.0
5	6.8	6.7	6.8	7.0	6.8	6.8	6.9	6.7	6.8	7.2	6.9	7.0
6	6.8	6.8	6.8	6.9	6.8	6.9	7.0	6.8	6.9	7.2	7.0	7.1
7	6.8	6.8	6.8	6.9	6.8	6.8	7.0	6.8	6.9	7.1	7.0	7.1
8	6.8	6.8	6.8	7.0	6.8	6.9	7.0	6.9	6.9	7.1	7.0	7.0
9	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.9	7.0	7.1	7.0	7.0
10	6.9	6.8	6.8	7.0	6.8	6.9	7.0	6.8	6.9	7.2	7.0	7.1
11	6.9	6.8	6.8	7.0	6.8	6.9	6.9	6.8	6.9	7.2	7.0	7.1
12	6.9	6.8	6.9	6.9	6.8	6.9	6.9	6.8	6.9	7.1	7.0	7.1
13	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.8	6.9	7.2	7.0	7.0
14	6.9	6.8	6.9	7.0	6.9	6.9	7.0	6.9	6.9	7.2	7.1	7.1
15	6.9	6.8	6.9	7.0	7.0	7.0	7.1	6.9	7.0	7.2	7.0	7.2
16	7.1	6.8	7.0	7.0	7.0	7.0	7.1	7.0	7.0	7.0	6.7	6.8
17	7.1	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.0	6.7	6.6	6.7
18	7.1	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.0	6.8	6.6	6.7
19	7.2	7.0	7.0	7.0	7.0	7.0	7.1	7.0	7.0	6.8	6.7	6.8
20	7.2	7.1	7.2	7.1	7.0	7.1	7.1	7.0	7.0	6.8	6.7	6.8
21	7.2	7.0	7.1	7.1	7.0	7.1	7.1	6.9	7.0	6.9	6.7	6.8
22	7.1	7.0	7.1	7.1	7.1	7.1	7.0	6.9	7.0	6.9	6.7	6.8
23	7.1	7.0	7.0	7.1	7.0	7.1	7.0	7.0	7.0	6.8	6.7	6.8
24	7.1	7.0	7.0	7.1	7.0	7.0	7.1	6.9	7.0	7.0	6.8	6.8
25	7.1	7.0	7.1	7.0	6.9	7.0	7.1	7.0	7.0	7.0	6.8	6.9
26	7.2	7.0	7.1	7.0	6.9	7.0	7.1	6.9	7.0	7.0	6.8	6.9
27	7.2	7.0	7.0	6.9	6.8	6.9	7.1	6.9	7.0	---	---	---
28	7.1	7.0	7.0	7.0	6.8	6.9	7.1	7.0	7.0	6.8	6.7	6.8
29	7.1	6.9	7.0	7.1	6.9	7.0	7.0	6.9	7.0	6.8	6.7	6.8
30	7.0	6.8	6.9	7.1	7.1	7.1	7.0	6.9	7.0	7.1	6.8	6.9
31	---	---	---	7.1	7.0	7.0	7.1	6.8	7.0	---	---	---
MONTH	7.2	6.7	6.9	7.1	6.7	6.9	7.1	6.7	6.9	---	---	---

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.7	23.8	24.0	19.1	18.5	18.7	13.0	12.7	12.9	6.7	5.9	6.3
2	24.3	23.8	24.0	19.3	18.4	18.9	12.8	12.6	12.7	7.3	6.6	7.0
3	24.2	23.9	24.0	19.1	18.8	19.0	12.6	12.0	12.2	8.0	7.3	7.7
4	24.2	23.5	23.8	19.0	18.7	18.8	12.2	11.7	12.0	8.9	8.0	8.5
5	23.8	23.3	23.6	18.7	18.2	18.4	12.1	11.8	11.9	9.8	8.9	9.5
6	23.3	22.4	22.7	18.2	17.5	17.8	11.9	11.8	11.8	10.5	9.8	10.2
7	22.5	21.8	22.1	17.6	17.2	17.3	12.4	11.8	12.0	10.9	10.5	10.7
8	22.0	21.4	21.7	17.2	16.3	16.8	12.8	12.2	12.5	10.9	10.6	10.8
9	22.0	21.4	21.7	16.3	15.5	15.8	12.9	12.5	12.7	10.9	10.6	10.8
10	22.2	21.3	21.7	15.6	15.0	15.3	13.5	12.9	13.2	10.6	10.1	10.3
11	21.7	21.2	21.4	15.1	14.6	14.9	13.4	13.1	13.2	10.2	10.0	10.1
12	21.6	20.8	21.1	15.2	14.8	15.0	13.1	12.3	12.7	10.4	9.9	10.2
13	21.0	20.7	20.8	15.2	14.2	14.8	12.4	12.0	12.2	11.3	10.3	10.8
14	21.0	20.5	20.8	14.2	13.7	13.9	12.0	11.0	11.6	12.1	11.3	11.8
15	20.5	20.0	20.3	14.0	13.2	13.7	11.0	9.8	10.3	11.9	10.4	11.2
16	20.1	19.2	19.6	13.7	13.2	13.4	9.8	9.2	9.4	10.4	9.2	9.7
17	19.4	19.1	19.3	13.4	12.9	13.1	9.2	8.5	8.8	9.2	8.1	8.8
18	19.2	18.6	18.9	13.0	12.6	12.8	8.5	8.3	8.4	8.1	6.9	7.5
19	19.7	18.8	19.2	13.1	12.4	12.7	8.5	8.2	8.4	6.9	6.0	6.4
20	19.7	19.5	19.6	13.7	13.0	13.4	8.3	6.9	7.6	6.2	5.8	6.0
21	19.5	19.1	19.3	14.3	13.6	13.9	6.9	6.2	6.4	6.1	5.5	5.9
22	19.1	18.8	19.0	14.6	14.1	14.3	6.8	6.1	6.5	5.5	5.2	5.2
23	18.8	18.2	18.5	14.6	14.2	14.4	7.9	6.8	7.3	5.3	4.3	4.8
24	18.2	17.5	17.8	15.3	14.5	14.8	8.1	7.8	8.0	4.7	3.9	4.3
25	17.5	17.1	17.3	15.9	15.2	15.5	7.8	6.6	7.2	5.1	4.6	4.8
26	17.3	16.7	16.9	15.2	14.4	14.6	6.6	5.0	6.0	5.0	4.7	4.8
27	17.2	16.6	16.9	14.4	14.0	14.2	5.0	4.1	4.4	5.0	4.6	4.8
28	17.3	16.8	17.0	14.7	14.2	14.4	4.2	4.0	4.1	4.7	3.6	4.2
29	17.1	16.7	16.9	14.3	13.6	13.8	4.3	3.9	4.1	3.6	3.3	3.4
30	18.0	16.9	17.4	13.6	12.8	13.1	5.1	4.3	4.7	3.8	3.3	3.6
31	18.8	17.7	18.2	---	---	---	5.9	5.1	5.5	4.2	3.7	4.0
MONTH	24.7	16.6	20.2	19.3	12.4	15.2	13.5	3.9	9.4	12.1	3.3	7.6
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	4.0	4.1	8.0	7.2	7.6	14.6	13.3	13.9	17.4	16.8	17.0
2	4.4	3.9	4.1	7.5	6.8	7.1	14.6	13.6	14.1	17.8	16.8	17.3
3	4.4	4.1	4.3	7.4	6.7	7.1	14.0	13.5	13.7	17.6	16.7	17.2
4	4.4	4.2	4.3	7.7	7.0	7.3	14.0	13.0	13.5	18.1	16.9	17.4
5	5.0	4.3	4.6	7.4	7.0	7.2	15.2	13.4	14.2	17.5	16.9	17.3
6	5.4	4.7	5.1	7.5	7.0	7.2	16.0	14.4	15.2	17.2	15.6	16.3
7	5.8	5.2	5.5	8.0	7.3	7.6	16.6	15.3	16.1	16.3	15.2	15.6
8	6.5	5.8	6.1	8.3	7.6	8.0	17.2	16.4	16.8	17.3	15.9	16.5
9	7.1	6.5	6.7	7.8	7.3	7.6	17.2	16.3	16.8	17.6	16.6	16.9
10	7.8	7.1	7.4	8.1	7.4	7.8	16.3	15.5	15.9	18.5	16.8	17.4
11	7.5	7.2	7.3	8.9	8.1	8.3	16.3	15.5	16.0	18.6	17.3	18.0
12	7.4	7.0	7.1	8.7	8.1	8.4	16.2	15.0	15.7	20.0	18.5	19.2
13	7.8	7.1	7.4	9.1	8.4	8.7	15.0	13.4	14.3	19.8	19.1	19.4
14	7.6	7.3	7.5	9.1	8.6	8.8	13.4	12.7	12.9	20.1	18.9	19.5
15	8.1	7.4	7.7	9.2	8.4	8.7	13.3	12.7	13.0	20.8	19.6	20.1
16	8.8	7.7	8.2	9.0	8.1	8.7	12.8	12.6	12.7	21.4	20.2	20.6
17	8.9	8.3	8.6	8.3	7.6	8.0	13.8	12.6	13.2	21.5	20.2	20.6
18	8.8	8.2	8.5	8.2	7.4	7.8	15.0	13.3	14.2	21.8	20.0	20.5
19	8.5	7.9	8.2	8.6	8.1	8.3	16.0	14.2	15.0	21.1	20.5	20.9
20	8.3	7.9	8.1	9.2	8.5	8.7	17.1	15.3	16.2	21.7	21.0	21.3
21	8.4	7.9	8.0	9.5	8.7	9.0	17.8	16.5	17.1	21.6	20.7	21.2
22	8.3	7.9	8.1	9.8	9.2	9.5	18.3	17.2	17.7	21.6	20.5	21.0
23	9.0	7.8	8.2	10.4	9.5	9.9	18.5	18.1	18.3	21.7	20.8	21.1
24	8.6	8.0	8.2	11.1	10.4	10.7	18.4	17.4	17.9	21.6	21.0	21.3
25	8.0	7.6	7.8	11.1	10.7	10.8	17.5	16.5	17.1	21.0	19.9	20.4
26	8.4	7.5	7.8	11.6	10.8	11.2	17.2	16.2	16.7	21.8	19.8	20.2
27	8.0	7.8	7.9	11.7	11.3	11.5	17.0	16.2	16.5	22.4	20.6	21.3
28	8.1	7.5	7.8	12.2	11.4	11.8	17.5	16.4	16.9	22.4	21.3	21.8
29	---	---	---	12.9	11.8	12.3	17.0	16.4	16.7	22.6	21.8	22.2
30	---	---	---	13.6	12.2	12.9	17.2	16.4	16.8	22.3	22.0	22.1
31	---	---	---	14.1	12.9	13.4	---	---	---	23.3	21.9	22.3
MONTH	9.0	3.9	7.0	14.1	6.7	9.1	18.5	12.6	15.5	23.3	15.2	19.5

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.8	21.9	22.4	28.2	26.1	27.0	28.8	27.3	28.0	29.4	28.8	29.1
2	22.0	20.5	21.3	27.8	26.8	27.2	28.1	26.8	27.2	29.7	28.8	29.1
3	21.8	21.2	21.5	28.6	27.0	27.6	28.2	27.4	27.7	30.0	28.9	29.3
4	22.1	21.4	21.7	29.5	27.3	28.0	28.7	27.9	28.1	29.4	28.6	28.9
5	23.6	22.0	22.3	29.6	28.1	28.6	30.2	28.1	28.8	28.6	27.7	28.1
6	23.2	22.6	22.8	30.7	27.8	28.4	30.4	28.4	29.1	28.2	27.0	27.6
7	23.5	22.7	23.0	30.7	28.6	29.2	30.4	28.9	29.4	27.4	26.6	26.9
8	26.4	23.2	23.8	29.6	28.9	29.2	30.1	29.1	29.4	27.5	26.4	26.8
9	24.9	24.1	24.4	30.8	28.8	29.4	30.1	29.0	29.3	27.7	26.7	27.1
10	25.5	24.6	24.9	30.7	28.9	29.5	30.6	29.0	29.4	27.4	26.2	26.7
11	25.8	24.6	25.1	30.9	29.3	29.9	30.9	28.9	29.2	26.2	25.4	25.8
12	26.2	25.0	25.5	30.2	29.5	29.8	31.0	29.1	29.5	26.0	25.1	25.4
13	27.1	25.4	26.1	29.8	28.6	29.2	31.0	29.4	29.9	26.0	25.2	25.5
14	27.2	26.1	26.4	28.9	28.4	28.6	30.3	29.6	29.9	25.9	25.2	25.6
15	27.3	26.1	26.6	29.3	28.3	28.7	30.9	29.7	30.0	25.6	24.8	25.0
16	27.6	26.6	27.0	29.1	28.0	28.6	30.4	29.7	30.1	26.4	25.5	25.7
17	27.2	26.5	26.8	29.4	28.6	28.9	29.8	29.3	29.5	27.6	25.8	26.1
18	27.0	26.1	26.5	29.6	28.4	28.9	29.8	28.8	29.2	26.9	26.1	26.4
19	27.5	26.8	27.0	29.9	28.7	29.3	30.2	28.8	29.1	27.7	26.4	26.9
20	26.8	25.4	25.9	29.9	29.1	29.4	30.1	28.8	29.2	27.6	26.8	27.1
21	27.5	24.9	25.7	29.5	28.9	29.2	31.1	29.5	30.1	27.6	26.8	27.0
22	27.0	25.7	26.2	30.3	29.0	29.5	30.7	29.7	30.1	27.4	26.8	27.1
23	27.6	26.0	26.4	30.6	29.3	29.8	30.3	29.8	30.1	28.4	27.0	27.4
24	27.6	26.1	26.4	30.6	29.3	29.7	29.9	29.1	29.6	27.8	27.1	27.5
25	26.9	26.1	26.4	30.7	29.3	29.7	29.5	28.8	29.1	28.0	27.3	27.5
26	26.2	25.8	26.0	30.7	29.3	29.6	29.5	28.2	28.8	27.6	26.9	27.2
27	27.8	26.1	26.5	32.1	29.7	30.6	29.3	28.6	28.8	27.6	27.0	27.2
28	27.8	26.4	26.8	31.7	29.9	30.5	30.3	28.4	29.0	27.1	26.5	26.8
29	27.0	26.6	26.8	30.7	29.9	30.1	29.5	28.7	28.9	27.2	26.2	26.6
30	27.1	25.9	26.2	29.9	29.5	29.6	30.1	28.5	29.0	26.6	25.2	25.7
31	---	---	---	29.6	28.8	29.1	29.5	28.6	29.0	---	---	---
MONTH	27.8	20.5	25.1	32.1	26.1	29.1	31.1	26.8	29.2	30.0	24.8	27.0
YEAR	32.1	3.3	17.9									

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	23.8	23.9	18.9	18.4	18.7	13.0	12.7	12.9	6.8	6.0	6.4
2	24.1	23.7	23.9	19.1	18.4	18.8	12.8	12.5	12.7	7.5	6.8	7.1
3	24.2	23.8	24.0	19.0	18.8	18.9	12.6	12.0	12.3	8.1	7.4	7.9
4	24.0	23.5	23.8	19.0	18.6	18.8	12.2	11.7	12.0	9.0	8.1	8.6
5	23.8	23.3	23.5	18.8	18.2	18.4	12.1	11.9	12.0	9.9	9.0	9.6
6	23.3	22.4	22.7	18.2	17.5	17.7	11.9	11.8	11.9	10.6	9.9	10.3
7	22.5	21.6	22.0	17.5	17.0	17.3	12.2	11.8	12.0	11.0	10.6	10.8
8	21.9	21.2	21.6	17.3	16.4	16.8	12.9	12.2	12.5	11.0	10.7	10.9
9	21.8	21.4	21.6	16.4	15.4	15.8	12.9	12.5	12.7	10.9	10.7	10.9
10	21.9	21.3	21.6	15.5	14.9	15.2	13.5	12.9	13.2	10.7	10.3	10.5
11	21.6	20.9	21.3	15.2	14.5	14.8	13.5	13.2	13.3	10.3	10.1	10.2
12	21.3	20.6	20.9	15.2	14.8	15.0	13.2	12.4	12.8	10.5	10.0	10.3
13	21.0	20.6	20.8	15.2	14.1	14.8	12.4	12.1	12.3	11.4	10.4	10.9
14	21.0	20.4	20.7	14.2	13.5	13.9	12.1	11.1	11.7	12.2	11.4	11.9
15	20.5	20.0	20.2	14.0	13.1	13.6	11.1	9.9	10.4	12.0	10.5	11.4
16	20.1	19.0	19.5	13.8	13.2	13.5	9.9	9.3	9.6	10.5	9.4	9.8
17	19.4	18.9	19.2	13.4	12.8	13.1	9.3	8.6	8.9	9.4	8.3	9.0
18	19.1	18.5	18.9	13.1	12.7	12.8	8.6	8.4	8.5	8.3	7.0	7.7
19	19.6	18.8	19.2	13.1	12.5	12.8	8.6	8.3	8.5	7.0	6.2	6.5
20	19.7	19.5	19.6	13.6	13.1	13.4	8.4	7.0	7.7	6.3	5.9	6.1
21	19.5	19.1	19.3	14.2	13.6	13.9	7.0	6.4	6.6	6.2	5.7	6.0
22	19.1	18.7	18.9	14.6	14.1	14.3	6.9	6.2	6.6	5.7	5.3	5.4
23	18.7	18.2	18.4	14.7	14.3	14.5	8.0	6.9	7.4	5.4	4.5	4.9
24	18.2	17.5	17.8	15.3	14.5	14.9	8.2	7.9	8.1	4.8	4.1	4.4
25	17.5	17.1	17.3	15.9	15.2	15.5	7.9	6.7	7.3	5.0	4.7	4.9
26	17.1	16.7	16.9	15.2	14.4	14.6	6.7	5.2	6.2	4.9	4.6	4.8
27	17.0	16.6	16.8	14.4	13.9	14.2	5.2	4.3	4.5	5.0	4.6	4.8
28	17.1	16.8	17.0	14.6	14.3	14.4	4.3	4.1	4.2	4.6	3.6	4.1
29	17.1	16.7	16.9	14.3	13.5	13.8	4.4	4.0	4.2	3.6	3.3	3.4
30	17.8	16.8	17.3	13.6	12.9	13.2	5.2	4.4	4.8	3.8	3.2	3.5
31	18.6	17.7	18.2	---	---	---	6.0	5.2	5.6	4.1	3.7	3.9
MONTH	24.2	16.6	20.1	19.1	12.5	15.2	13.5	4.0	9.5	12.2	3.2	7.6
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	3.9	4.1	8.0	7.3	7.6	14.6	13.3	13.9	17.2	16.8	17.0
2	4.3	3.9	4.1	7.5	6.7	7.1	14.5	13.6	14.0	17.6	16.7	17.2
3	4.4	4.1	4.3	7.4	6.5	7.1	14.0	13.4	13.7	17.4	16.5	17.1
4	4.4	4.2	4.3	7.6	6.8	7.2	13.9	13.0	13.4	17.8	16.9	17.2
5	4.9	4.3	4.6	7.4	7.0	7.2	14.8	13.4	14.2	17.5	16.9	17.3
6	5.4	4.7	5.0	7.4	7.0	7.2	15.7	14.3	15.1	17.1	15.6	16.3
7	5.8	5.2	5.5	7.8	7.3	7.5	16.4	15.3	16.0	15.9	15.2	15.5
8	6.5	5.8	6.0	8.3	7.7	8.0	17.0	16.4	16.7	16.8	15.9	16.3
9	7.0	6.5	6.7	7.8	7.1	7.6	17.0	16.2	16.8	17.2	16.5	16.7
10	7.8	7.0	7.4	8.1	7.4	7.8	16.2	15.4	15.8	17.6	16.8	17.1
11	7.5	7.2	7.3	8.6	8.1	8.3	16.3	15.5	15.9	18.6	17.3	17.8
12	7.3	7.0	7.1	8.6	8.1	8.4	16.1	14.9	15.7	19.8	18.5	19.0
13	7.7	7.1	7.3	9.1	8.3	8.6	14.9	13.4	14.3	19.8	19.1	19.4
14	7.6	7.3	7.5	9.1	8.6	8.8	13.4	12.7	12.9	19.9	18.9	19.4
15	7.9	7.4	7.6	9.0	8.4	8.7	13.2	12.7	13.0	20.6	19.6	20.0
16	8.6	7.7	8.2	9.0	8.0	8.7	12.8	12.6	12.7	20.8	20.2	20.5
17	8.9	8.3	8.6	8.2	7.6	7.9	13.6	12.6	13.2	21.1	20.1	20.5
18	8.8	8.2	8.5	8.1	7.3	7.7	14.8	13.3	14.1	20.8	19.9	20.3
19	8.5	7.9	8.1	8.6	8.0	8.3	15.8	14.2	15.0	21.1	20.5	20.8
20	8.3	7.9	8.1	8.9	8.5	8.7	16.9	15.2	16.0	21.5	21.0	21.2
21	8.1	7.9	8.0	9.3	8.6	8.9	17.7	16.5	17.0	21.4	20.6	21.1
22	8.1	7.9	8.0	9.6	9.2	9.4	18.3	17.1	17.7	21.3	20.4	20.8
23	8.6	7.8	8.0	10.4	9.5	9.8	18.4	18.0	18.2	21.3	20.8	20.9
24	8.5	8.0	8.2	11.0	10.4	10.7	18.4	17.3	17.8	21.4	20.9	21.1
25	8.0	7.6	7.8	11.0	10.6	10.8	17.4	16.3	17.0	21.0	19.8	20.3
26	8.1	7.3	7.7	11.5	10.7	11.1	17.1	16.2	16.6	20.2	19.7	20.0
27	8.0	7.8	7.9	11.7	11.3	11.5	16.8	16.2	16.4	21.5	20.2	20.8
28	8.0	7.5	7.8	12.2	11.4	11.7	17.2	16.2	16.7	22.2	20.9	21.6
29	---	---	---	12.7	11.8	12.3	17.0	16.4	16.7	22.2	21.7	22.0
30	---	---	---	13.5	12.2	12.8	17.0	16.4	16.7	22.2	21.9	22.1
31	---	---	---	14.0	12.8	13.4	---	---	---	22.7	21.8	22.1
MONTH	8.9	3.9	6.9	14.0	6.5	9.1	18.4	12.6	15.4	22.7	15.2	19.3

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.7	21.9	22.3	26.8	26.0	26.2	28.7	27.2	27.9	29.1	28.7	28.9
2	22.0	20.5	21.3	26.8	26.1	26.6	27.2	26.7	27.0	29.1	28.7	28.9
3	21.8	21.2	21.4	27.4	26.5	27.1	27.7	27.1	27.4	29.4	28.6	29.0
4	21.9	21.4	21.6	27.7	27.2	27.4	28.0	27.7	27.8	29.3	28.5	28.8
5	22.6	21.9	22.1	28.8	27.7	28.0	28.7	27.9	28.2	28.6	27.6	28.0
6	23.0	22.5	22.7	28.1	27.6	27.9	29.6	28.4	28.8	28.2	27.0	27.5
7	23.2	22.6	22.9	28.9	28.0	28.6	29.5	28.9	29.2	27.4	26.4	26.8
8	24.1	23.2	23.5	29.3	28.8	29.0	29.5	29.1	29.3	27.1	26.1	26.5
9	24.8	24.0	24.4	29.4	28.7	29.0	29.6	29.0	29.3	27.3	26.5	26.9
10	25.2	24.5	24.8	29.3	28.8	29.0	29.5	29.0	29.2	27.3	26.2	26.7
11	25.5	24.5	25.0	29.6	29.0	29.2	29.1	28.8	29.0	26.2	25.4	25.7
12	26.0	25.0	25.4	29.8	29.2	29.5	29.5	28.9	29.2	25.7	24.9	25.3
13	26.7	25.3	25.9	29.8	28.6	29.1	30.2	29.4	29.7	25.8	24.9	25.2
14	26.6	26.0	26.2	28.8	28.2	28.5	30.2	29.6	29.9	25.8	25.1	25.4
15	26.7	26.1	26.4	29.3	28.2	28.6	30.2	29.7	30.0	25.6	24.8	25.0
16	27.3	26.5	26.8	29.1	28.1	28.6	30.4	29.8	30.1	25.6	25.4	25.5
17	27.1	26.4	26.7	29.2	28.6	28.9	29.8	29.3	29.6	25.8	25.6	25.7
18	26.9	26.0	26.4	29.3	28.4	28.8	29.4	28.7	29.0	26.3	25.7	25.9
19	27.1	26.7	26.8	29.7	28.7	29.2	29.2	28.8	29.0	27.3	26.1	26.5
20	26.7	25.3	25.8	29.8	29.1	29.4	29.6	28.9	29.1	27.3	26.7	26.9
21	25.7	24.6	25.1	29.5	28.9	29.2	30.1	29.5	29.8	27.3	26.5	26.9
22	26.1	25.6	25.8	30.0	28.9	29.5	30.2	29.7	29.9	27.3	26.5	26.9
23	26.6	25.9	26.1	29.8	29.3	29.7	30.2	29.8	30.1	27.2	26.7	27.0
24	26.6	25.9	26.2	29.9	29.3	29.6	29.8	29.2	29.5	27.5	27.0	27.3
25	26.5	26.0	26.2	29.7	29.3	29.5	29.2	28.8	29.0	27.5	26.9	27.3
26	26.2	25.7	25.9	29.8	29.2	29.5	29.0	28.2	28.6	27.5	26.6	27.0
27	26.4	26.0	26.1	30.0	29.6	29.9	28.9	28.3	28.6	27.3	26.9	27.1
28	27.0	26.2	26.6	30.9	29.8	30.2	28.8	28.4	28.6	27.0	26.4	26.6
29	26.9	26.2	26.6	30.8	29.9	30.1	28.8	28.5	28.7	26.5	25.9	26.1
30	26.5	25.8	26.0	29.9	29.4	29.6	29.0	28.4	28.6	26.3	25.0	25.6
31	---	---	---	29.6	28.7	29.1	29.1	28.6	28.8	---	---	---
MONTH	27.3	20.5	25.0	30.9	26.0	28.9	30.4	26.7	29.0	29.4	24.8	26.8
YEAR	30.9	3.2	17.8									

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.0	4.0	4.3	5.5	5.0	5.2	8.8	8.4	8.6	---	---	---
2	5.1	4.5	4.8	5.2	4.7	4.9	8.8	8.5	8.6	---	---	---
3	5.3	4.9	5.1	4.8	4.6	4.7	9.0	8.6	8.8	---	---	---
4	5.3	4.9	5.1	4.8	4.5	4.6	9.0	8.8	8.9	---	---	---
5	5.7	5.1	5.4	5.1	4.7	4.9	9.0	8.8	8.9	---	---	---
6	5.7	5.3	5.5	5.5	5.0	5.2	9.0	8.8	8.9	---	---	---
7	5.7	5.4	5.5	5.9	5.4	5.6	8.9	8.7	8.8	---	---	---
8	5.9	5.6	5.7	6.2	5.6	5.8	8.8	8.5	8.7	---	---	---
9	5.9	5.7	5.8	5.8	5.4	5.7	8.6	8.4	8.5	---	---	---
10	6.2	5.7	5.9	6.1	5.5	5.8	8.5	8.0	8.2	---	---	---
11	6.1	5.9	6.0	6.6	6.0	6.3	8.1	7.8	8.0	---	---	---
12	6.2	5.9	6.0	7.1	6.5	6.8	8.3	7.8	8.1	---	---	---
13	6.2	6.0	6.1	7.6	7.0	7.3	8.3	8.1	8.2	---	---	---
14	6.2	5.5	5.8	7.6	7.3	7.4	8.3	8.0	8.1	---	---	---
15	5.6	5.3	5.5	7.6	7.3	7.4	8.7	8.2	8.5	---	---	---
16	5.7	5.4	5.6	7.6	7.3	7.4	8.9	8.5	8.7	---	---	---
17	5.9	5.5	5.7	7.7	7.4	7.5	9.1	8.8	9.0	---	---	---
18	5.9	5.6	5.7	8.0	7.6	7.7	9.2	8.8	9.0	---	---	---
19	6.0	5.8	5.9	8.3	7.9	8.1	9.0	8.8	8.9	---	---	---
20	6.0	5.6	5.9	8.3	8.0	8.1	9.3	8.8	9.1	---	---	---
21	5.8	5.6	5.7	8.2	7.9	8.1	9.6	8.9	9.2	---	---	---
22	6.1	5.7	5.9	8.0	7.6	7.8	9.5	9.2	9.4	---	---	---
23	6.1	5.8	6.0	7.7	7.4	7.5	9.4	9.0	9.2	---	---	---
24	5.9	5.7	5.8	7.6	7.4	7.5	---	---	---	---	---	---
25	6.0	5.7	5.9	7.9	7.4	7.6	---	---	---	---	---	---
26	6.2	5.8	6.0	8.1	7.7	7.9	---	---	---	10.9	10.6	10.8
27	6.1	5.9	6.0	8.1	7.9	8.0	---	---	---	11.2	10.9	11.0
28	6.2	5.7	6.0	8.2	8.0	8.1	---	---	---	11.3	11.0	11.1
29	5.8	5.3	5.5	8.2	8.0	8.1	10.2	9.8	10.0	11.5	11.2	11.4
30	6.0	5.5	5.7	8.5	8.1	8.3	---	---	---	11.6	11.4	11.5
31	5.8	5.4	5.6	---	---	---	---	---	---	11.6	11.4	11.5
MONTH	6.2	4.0	5.7	8.5	4.5	6.8	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	11.5	11.3	11.4	11.1	10.8	11.0	9.0	8.5	8.8	7.8	7.4	7.6
2	11.7	11.3	11.6	---	---	---	8.9	8.4	8.7	7.7	7.3	7.5
3	11.7	11.4	11.6	---	---	---	8.8	8.4	8.6	7.6	7.3	7.4
4	11.7	11.4	11.5	---	---	---	9.0	8.3	8.7	7.9	7.2	7.4
5	11.6	11.3	11.4	---	---	---	9.0	8.3	8.7	7.9	7.3	7.5
6	11.5	11.2	11.3	---	---	---	8.7	8.2	8.4	8.6	7.7	8.0
7	11.5	11.3	11.4	---	---	---	8.7	7.5	8.2	7.8	7.0	7.3
8	11.3	11.1	11.2	---	---	---	8.1	6.8	7.6	7.3	7.1	7.2
9	11.3	11.0	11.2	---	---	---	7.6	6.7	7.2	7.3	6.9	7.1
10	11.2	10.8	11.0	---	---	---	7.5	7.0	7.3	7.4	7.1	7.2
11	11.0	10.7	10.8	---	---	---	8.1	7.4	7.8	7.2	6.7	6.9
12	10.9	10.7	10.8	---	---	---	8.1	7.4	7.7	7.0	6.7	6.8
13	11.0	10.7	10.8	---	---	---	7.6	7.2	7.4	6.9	6.6	6.8
14	11.0	10.7	10.8	---	---	---	7.4	7.0	7.1	6.9	6.6	6.8
15	10.7	10.5	10.6	---	---	---	8.5	7.3	8.1	6.7	6.3	6.5
16	10.7	10.1	10.4	10.5	10.2	10.3	8.7	8.2	8.5	7.0	6.3	6.5
17	10.3	9.8	10.1	10.6	10.3	10.4	8.6	8.1	8.4	6.8	6.1	6.3
18	10.0	9.7	9.9	10.5	10.2	10.3	8.5	8.0	8.3	---	---	---
19	10.3	9.9	10.1	10.5	10.3	10.4	8.4	7.9	8.1	---	---	---
20	10.4	10.0	10.2	10.6	10.4	10.5	8.2	7.7	7.9	---	---	---
21	10.5	10.2	10.4	10.6	10.4	10.5	7.9	7.4	7.6	---	---	---
22	10.5	10.2	10.3	10.6	10.4	10.5	7.7	7.0	7.3	---	---	---
23	10.8	10.4	10.6	10.5	10.0	10.3	7.2	6.9	7.0	---	---	---
24	10.9	10.3	10.6	10.0	9.4	9.7	7.1	6.4	6.7	---	---	---
25	10.8	10.5	10.6	9.5	9.2	9.3	6.9	6.4	6.6	---	---	---
26	10.9	10.4	10.6	9.4	9.0	9.2	7.1	6.6	6.9	---	---	---
27	10.8	10.5	10.6	9.1	8.8	9.0	7.3	7.1	7.2	---	---	---
28	11.2	10.7	10.9	9.0	8.6	8.8	7.3	7.1	7.2	---	---	---
29	---	---	---	8.8	8.6	8.7	7.4	7.2	7.3	---	---	---
30	---	---	---	8.9	8.4	8.7	7.8	7.4	7.7	---	---	---
31	---	---	---	9.0	8.5	8.7	---	---	---	---	---	---
MONTH	11.7	9.7	10.8	---	---	---	9.0	6.4	7.8	---	---	---

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	5.8	4.5	5.2	4.7	4.0	4.3	6.2	4.9	5.5
2	---	---	---	5.6	4.2	4.9	4.3	3.6	3.8	6.5	5.0	5.4
3	---	---	---	7.2	4.1	5.0	4.3	3.4	3.8	7.2	5.2	5.9
4	---	---	---	7.6	4.5	5.5	4.7	3.4	3.8	6.0	4.9	5.4
5	---	---	---	7.2	4.9	6.0	5.9	3.5	4.5	6.2	5.2	5.7
6	---	---	---	8.4	4.3	5.0	6.1	3.9	4.7	6.5	5.5	5.9
7	---	---	---	8.4	4.6	5.4	6.5	4.1	4.8	6.5	5.6	6.0
8	---	---	---	5.9	4.8	5.2	5.8	4.2	4.6	6.5	5.5	5.8
9	---	---	---	7.6	4.5	5.5	5.4	4.2	4.6	6.6	5.4	5.9
10	---	---	---	6.8	4.7	5.3	5.6	4.1	4.5	6.5	5.4	6.0
11	---	---	---	6.5	4.6	5.4	6.4	4.0	4.5	6.9	5.7	6.2
12	---	---	---	5.8	4.7	5.2	6.5	3.7	4.5	6.9	5.9	6.4
13	---	---	---	5.2	4.3	4.8	6.2	3.9	4.6	7.0	5.9	6.5
14	---	---	---	5.2	4.4	4.7	5.6	4.3	4.9	7.2	5.8	6.3
15	---	---	---	5.7	4.9	5.2	6.4	4.9	5.3	7.4	5.9	7.0
16	---	---	---	5.8	5.2	5.5	5.8	5.0	5.3	5.9	4.4	4.9
17	6.0	5.4	5.7	5.8	5.2	5.5	5.7	5.0	5.3	5.3	4.1	4.5
18	6.1	5.4	5.6	6.0	5.3	5.6	6.3	5.0	5.3	5.0	3.8	4.3
19	6.4	5.2	5.6	---	---	---	6.4	4.9	5.2	5.0	3.5	4.1
20	6.3	5.7	6.0	---	---	---	6.5	4.7	5.1	5.5	4.5	5.0
21	7.2	5.7	6.1	---	---	---	6.9	4.6	5.3	5.6	4.6	5.0
22	6.5	5.3	5.7	---	---	---	6.4	4.5	5.2	5.5	4.8	5.0
23	7.3	5.2	5.7	---	---	---	5.7	4.9	5.3	5.8	4.5	5.0
24	7.0	5.4	5.7	---	---	---	6.4	4.8	5.3	5.7	4.7	5.1
25	6.8	5.6	6.0	---	---	---	6.5	4.9	5.5	5.7	4.5	5.0
26	6.2	5.5	5.7	---	---	---	7.0	5.1	5.6	5.4	4.7	5.1
27	6.4	5.4	5.6	---	---	---	6.5	5.1	5.6	5.6	4.9	5.2
28	6.1	5.3	5.5	---	---	---	6.6	4.8	5.2	6.3	5.0	5.5
29	5.7	5.1	5.5	---	---	---	7.2	4.9	5.8	6.1	5.3	5.7
30	5.7	4.7	5.2	5.0	4.3	4.5	6.6	5.2	5.7	6.3	5.3	5.7
31	---	---	---	5.0	4.2	4.5	6.2	5.2	5.7	---	---	---
MONTH	---	---	---	---	---	---	7.2	3.4	5.0	7.4	3.5	5.5

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.0	4.2	4.5	5.8	5.2	5.4	8.9	8.4	8.7	10.3	9.9	10.1
2	5.2	4.6	4.9	5.4	4.8	5.0	8.9	8.6	8.8	10.0	9.7	9.9
3	5.4	4.8	5.1	5.0	4.6	4.8	9.1	8.7	8.9	9.8	9.6	9.7
4	5.4	4.7	5.0	4.9	4.6	4.8	9.1	8.8	9.0	9.6	9.3	9.4
5	5.8	4.9	5.3	5.2	4.7	5.0	9.1	8.9	9.0	9.3	9.0	9.2
6	5.8	5.3	5.5	5.6	5.1	5.3	9.1	8.8	9.0	9.2	8.8	9.0
7	5.9	5.3	5.6	5.7	5.5	5.6	8.9	8.7	8.8	8.9	8.6	8.8
8	6.1	5.7	5.9	6.1	5.6	5.8	8.9	8.6	8.7	8.8	8.5	8.6
9	6.1	5.8	6.0	6.0	5.6	5.8	8.7	8.3	8.5	8.9	8.6	8.7
10	6.2	5.9	6.0	6.2	5.7	5.9	8.5	8.2	8.3	8.8	8.5	8.7
11	6.2	6.0	6.1	6.6	6.2	6.4	8.3	8.1	8.2	8.9	8.6	8.8
12	6.3	6.0	6.2	7.2	6.5	6.8	8.5	8.1	8.3	9.1	8.7	8.9
13	6.4	6.1	6.2	7.8	7.1	7.5	8.5	8.4	8.5	9.1	8.8	9.0
14	6.3	5.7	6.1	7.7	7.4	7.6	8.6	8.3	8.4	9.1	8.7	8.9
15	5.9	5.5	5.7	7.8	7.5	7.6	8.9	8.5	8.8	8.8	8.3	8.4
16	5.9	5.6	5.8	7.8	7.5	7.6	9.3	8.8	9.1	9.0	8.4	8.7
17	6.0	5.7	5.9	7.9	7.6	7.7	9.4	9.2	9.3	9.2	8.9	9.1
18	6.1	5.8	5.9	8.3	7.7	7.9	9.5	9.3	9.4	9.6	9.2	9.4
19	6.2	6.0	6.0	8.6	8.1	8.4	9.4	9.2	9.3	10.1	9.6	9.8
20	6.2	5.8	6.0	8.5	8.2	8.4	9.5	9.3	9.4	10.2	10.0	10.1
21	6.0	5.7	5.8	8.4	8.0	8.2	9.8	9.4	9.6	10.8	10.2	10.4
22	6.2	5.9	6.0	8.2	7.8	8.1	9.8	9.7	9.8	10.9	10.8	10.9
23	6.3	5.8	6.1	7.9	7.6	7.7	9.8	9.5	9.7	11.2	10.8	11.0
24	6.1	5.8	5.9	7.8	7.6	7.7	9.7	9.2	9.5	11.2	10.9	11.0
25	6.2	5.8	6.0	8.1	7.6	7.9	9.5	9.1	9.3	11.0	10.5	10.7
26	6.3	6.0	6.1	8.3	8.0	8.1	9.7	9.4	9.6	10.7	10.5	10.6
27	6.3	6.1	6.2	8.2	8.1	8.2	10.2	9.7	9.9	11.1	10.6	10.9
28	6.4	6.0	6.2	8.4	8.0	8.2	10.3	10.1	10.2	11.1	10.8	11.0
29	6.1	5.6	5.8	8.5	8.2	8.3	10.6	10.3	10.4	11.3	11.0	11.2
30	6.0	5.7	5.9	8.5	8.3	8.4	10.5	10.3	10.4	11.5	11.2	11.3
31	5.9	5.7	5.8	---	---	---	10.4	10.2	10.3	11.3	11.1	11.2
MONTH	6.4	4.2	5.8	8.6	4.6	7.0	10.6	8.1	9.2	11.5	8.3	9.8
		FEBRUARY			MARCH			APRIL			MAY	
1	11.4	11.1	11.3	10.6	10.2	10.4	8.6	8.2	8.4	8.2	7.5	7.8
2	11.5	11.2	11.3	10.8	10.3	10.5	8.5	8.0	8.3	8.2	7.5	7.8
3	11.5	11.2	11.3	10.8	10.4	10.6	8.3	7.9	8.1	8.0	7.4	7.8
4	11.3	11.1	11.2	10.6	10.3	10.5	8.8	8.0	8.5	8.2	7.2	7.6
5	11.3	11.0	11.1	10.8	10.4	10.6	8.7	8.2	8.5	8.6	7.4	7.9
6	11.2	10.9	11.1	11.0	10.7	10.9	8.8	8.3	8.6	10.5	7.3	8.9
7	11.1	10.9	11.0	11.0	10.9	11.0	8.8	7.5	8.2	9.4	7.0	7.7
8	10.9	10.7	10.8	11.0	10.7	10.8	8.2	6.8	7.7	7.6	7.0	7.3
9	11.0	10.6	10.8	11.0	10.7	10.9	7.5	6.8	7.2	7.6	6.8	7.2
10	10.8	10.5	10.7	10.9	10.7	10.8	7.6	7.0	7.3	7.6	6.4	7.2
11	10.7	10.4	10.5	10.8	10.4	10.6	8.2	7.4	7.9	7.1	6.2	6.7
12	10.5	10.3	10.4	10.6	10.1	10.4	8.3	7.4	7.8	7.1	6.4	6.7
13	10.5	10.3	10.5	10.4	10.1	10.2	7.7	7.1	7.5	6.9	6.5	6.7
14	10.6	10.3	10.5	10.5	10.2	10.4	7.6	6.9	7.2	6.8	6.4	6.6
15	10.4	10.2	10.3	10.5	10.2	10.3	8.6	7.4	8.2	6.6	6.3	6.5
16	10.4	9.9	10.1	10.6	10.2	10.4	8.9	8.3	8.6	6.4	6.0	6.3
17	10.1	9.2	9.7	10.6	10.3	10.5	9.0	8.3	8.7	6.2	5.8	6.0
18	9.8	9.4	9.6	10.6	10.3	10.4	8.8	8.2	8.5	6.2	5.7	5.9
19	10.0	9.5	9.8	10.6	10.5	10.5	8.6	8.1	8.3	6.0	5.8	6.0
20	10.1	9.6	9.9	10.6	10.4	10.5	8.4	7.8	8.1	6.2	5.8	6.0
21	10.1	9.8	10	10.6	10.4	10.6	8.1	7.5	7.7	6.3	5.6	6.0
22	10.1	9.8	10	10.8	10.5	10.6	8.0	7.0	7.4	6.1	5.8	5.9
23	10.4	10.0	10.2	10.7	10.0	10.3	7.2	6.7	7.0	6.1	5.5	5.9
24	10.6	10.1	10.3	10.1	9.4	9.7	7.4	6.3	6.8	6.2	5.6	5.9
25	10.6	10.1	10.2	9.5	9.2	9.3	6.9	6.3	6.6	6.2	5.6	5.9
26	10.3	10.0	10.1	9.3	8.9	9.1	7.4	6.5	7.0	6.1	5.6	5.8
27	10.4	10.0	10.2	8.9	8.5	8.8	7.7	7.1	7.4	6.5	5.3	5.9
28	10.6	10.3	10.4	8.8	8.4	8.6	7.8	7.2	7.5	6.2	5.5	5.9
29	---	---	---	8.7	8.3	8.5	7.8	7.4	7.6	6.2	5.6	6.0
30	---	---	---	8.6	8.2	8.4	8.0	7.3	7.8	6.0	5.6	5.8
31	---	---	---	8.7	8.1	8.4	---	---	---	6.0	5.3	5.7
MONTH	11.5	9.2	10.5	11.0	8.1	10.1	9.0	6.3	7.8	10.5	5.3	6.6

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.0	5.4	5.7	4.6	3.4	4.1	4.8	3.8	4.3	5.8	4.0	5.0
2	7.1	5.6	6.2	4.2	3.1	3.8	---	---	---	6.0	4.3	5.1
3	5.9	5.0	5.4	4.1	3.0	3.6	---	---	---	6.3	4.7	5.3
4	5.1	4.8	4.9	4.5	3.6	4.1	---	---	---	6.9	5.0	5.6
5	5.1	4.7	4.9	6.0	3.4	4.1	---	---	---	7.4	5.1	6.1
6	5.4	4.8	5.0	4.5	3.4	4.0	4.8	3.6	4.0	7.8	5.7	6.8
7	5.3	5.0	5.2	4.4	3.2	3.8	4.8	3.5	4.0	7.8	6.1	6.7
8	5.4	4.9	5.1	5.4	3.6	4.6	4.5	3.7	4.0	7.0	5.5	6.1
9	5.5	5.0	5.2	5.6	3.8	4.6	4.7	4.0	4.3	6.7	5.4	6.0
10	5.6	4.9	5.2	5.8	3.9	4.7	4.3	3.6	4.0	7.9	5.8	6.6
11	5.8	5.1	5.4	5.8	3.5	4.6	4.3	3.2	3.8	7.9	5.9	6.8
12	5.8	5.1	5.4	5.3	3.8	4.7	4.0	3.1	3.6	8.2	6.1	6.9
13	5.8	4.3	4.8	5.7	4.6	5.2	5.1	3.2	4.0	8.8	6.7	7.9
14	5.8	4.8	5.3	6.1	4.6	5.2	5.2	4.3	4.7	9.3	7.1	7.8
15	5.8	4.9	5.3	6.7	4.9	5.4	5.5	4.8	5.1	10.1	7.7	9.2
16	6.2	5.2	5.6	5.7	5.2	5.4	5.6	4.9	5.1	8.0	5.1	6.2
17	5.7	5.1	5.4	5.6	5.3	5.4	5.4	4.8	5.1	5.5	3.9	4.9
18	5.6	5.1	5.3	5.8	5.3	5.5	5.3	4.7	5.0	5.6	4.1	4.6
19	5.9	5.0	5.3	5.6	5.2	5.3	5.4	4.7	5.0	6.2	3.4	4.1
20	6.1	5.5	5.8	5.7	5.2	5.3	5.2	4.6	4.8	7.0	3.6	5.8
21	6.1	5.1	5.6	5.5	5.0	5.2	5.2	4.4	4.9	4.8	3.6	4.2
22	5.6	4.8	5.2	5.7	5.2	5.3	5.2	4.5	4.9	---	---	---
23	5.8	5.1	5.4	5.5	5.0	5.3	5.9	4.8	5.3	---	---	---
24	6.2	5.3	5.5	5.4	4.8	5.1	5.8	4.9	5.3	---	---	---
25	6.1	5.6	5.8	5.3	4.4	4.8	6.3	5.2	5.5	---	---	---
26	6.1	5.5	5.8	5.3	3.8	4.6	5.9	4.6	5.2	---	---	---
27	5.6	4.8	5.3	3.9	3.1	3.5	5.6	4.4	4.9	---	---	---
28	5.4	4.6	5.2	5.1	3.0	3.8	5.0	4.2	4.5	5.8	4.5	5.0
29	5.6	4.6	5.2	5.3	4.2	4.6	5.5	4.3	4.8	5.8	4.1	4.8
30	5.2	4.2	4.6	5.0	4.3	4.6	5.5	4.3	4.9	5.9	4.9	5.3
31	---	---	---	5.0	4.1	4.4	5.8	4.4	5.3	---	---	---
MONTH	7.1	4.2	5.3	6.7	3.0	4.7	---	---	---	---	---	---

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	60	48	52	59	54	56	84	80	82	---	---	---
2	61	54	58	56	51	53	83	80	81	---	---	---
3	63	58	61	52	50	51	84	80	82	---	---	---
4	63	58	61	52	48	50	84	81	82	---	---	---
5	67	60	64	54	50	52	84	81	83	---	---	---
6	67	62	64	58	53	55	83	81	82	---	---	---
7	66	62	63	62	56	58	83	81	82	---	---	---
8	68	63	65	64	58	60	82	80	81	---	---	---
9	68	65	66	59	54	58	81	79	80	---	---	---
10	71	65	67	61	55	58	81	76	79	---	---	---
11	69	67	68	66	59	63	78	74	76	---	---	---
12	71	66	68	71	64	67	78	74	76	---	---	---
13	70	67	68	75	70	73	78	75	77	---	---	---
14	69	61	65	74	71	72	76	73	75	---	---	---
15	62	59	61	74	70	72	77	74	76	---	---	---
16	63	59	61	73	70	71	78	74	76	---	---	---
17	64	60	62	74	70	72	79	76	77	---	---	---
18	64	60	62	76	72	73	79	75	77	---	---	---
19	66	62	64	79	74	76	77	75	76	---	---	---
20	66	61	64	79	76	78	78	73	76	---	---	---
21	63	61	62	79	77	78	78	73	75	---	---	---
22	66	62	64	78	75	76	78	75	76	---	---	---
23	65	62	64	75	73	74	78	75	76	---	---	---
24	63	60	61	76	73	74	---	---	---	---	---	---
25	63	60	61	79	74	77	---	---	---	---	---	---
26	65	60	62	80	76	78	---	---	---	85	83	85
27	64	61	62	79	77	78	---	---	---	88	85	86
28	64	59	62	81	78	79	---	---	---	87	85	86
29	60	55	57	80	77	78	78	75	77	87	84	86
30	63	57	59	81	77	79	---	---	---	88	86	87
31	62	58	60	---	---	---	---	---	---	89	87	88
MONTH	71	48	63	81	48	68	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	88	87	87	93	90	92	89	81	85	81	77	79
2	90	86	89	---	---	---	88	82	85	81	76	78
3	90	88	89	---	---	---	85	81	83	80	76	77
4	90	88	89	---	---	---	88	79	84	84	75	77
5	91	87	89	---	---	---	90	81	85	82	76	78
6	91	87	89	---	---	---	88	80	84	87	79	82
7	91	89	90	---	---	---	89	77	83	79	71	74
8	91	89	90	---	---	---	84	70	79	76	72	73
9	93	90	92	---	---	---	79	69	75	76	71	73
10	93	90	92	---	---	---	75	71	74	79	74	76
11	92	89	90	---	---	---	82	75	79	76	71	73
12	90	89	89	---	---	---	83	74	78	77	72	74
13	92	89	90	---	---	---	75	69	73	76	72	74
14	91	89	90	---	---	---	70	66	68	76	71	74
15	90	88	89	---	---	---	81	69	77	75	69	72
16	90	87	89	90	88	89	82	77	80	79	70	73
17	88	84	86	89	87	88	82	78	80	77	68	70
18	86	83	85	89	85	87	84	77	81	---	---	---
19	88	84	86	90	87	89	85	77	81	---	---	---
20	88	84	86	92	89	90	85	77	81	---	---	---
21	89	86	88	93	90	91	82	76	79	---	---	---
22	89	86	88	94	91	92	81	73	77	---	---	---
23	93	88	90	93	89	91	77	73	75	---	---	---
24	93	87	91	90	85	88	76	68	71	---	---	---
25	91	88	89	86	83	84	72	66	69	---	---	---
26	93	87	89	86	83	84	73	68	71	---	---	---
27	91	88	89	84	81	82	76	72	74	---	---	---
28	94	91	92	84	79	81	77	73	75	---	---	---
29	---	---	---	84	80	82	77	74	75	---	---	---
30	---	---	---	86	78	82	81	76	79	---	---	---
31	---	---	---	88	81	84	---	---	---	---	---	---
MONTH	94	83	89	---	---	---	90	66	78	---	---	---

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	74	56	66	61	51	55	81	64	72
2	---	---	---	71	53	62	55	45	48	86	65	71
3	---	---	---	93	52	64	55	43	48	96	68	78
4	---	---	---	100	57	70	61	44	49	79	63	70
5	---	---	---	95	63	78	79	45	59	80	66	73
6	---	---	---	113	55	65	82	50	62	83	70	75
7	---	---	---	113	60	71	86	53	64	82	70	75
8	---	---	---	77	63	69	77	55	60	83	69	73
9	---	---	---	102	59	72	72	55	60	84	68	74
10	---	---	---	91	61	70	75	54	59	81	68	76
11	---	---	---	88	60	72	86	52	59	85	70	76
12	---	---	---	77	62	69	88	48	59	85	72	78
13	---	---	---	69	56	63	84	51	61	86	73	80
14	---	---	---	68	57	61	75	57	64	88	71	77
15	---	---	---	75	63	68	86	65	71	90	72	85
16	---	---	---	76	67	71	77	66	70	72	54	61
17	76	67	71	76	68	72	75	66	70	67	51	56
18	77	67	69	79	69	72	83	65	70	63	47	53
19	81	65	71	---	---	---	85	64	68	63	44	52
20	78	70	74	---	---	---	86	61	67	70	56	63
21	91	69	75	---	---	---	93	61	71	71	58	63
22	82	65	71	---	---	---	86	59	68	70	60	63
23	93	64	72	---	---	---	76	65	71	74	57	63
24	89	67	71	---	---	---	85	63	69	73	60	65
25	85	70	74	---	---	---	85	64	72	72	57	64
26	77	68	71	---	---	---	92	66	73	69	59	65
27	82	67	70	---	---	---	85	66	72	71	62	66
28	78	66	70	---	---	---	88	62	68	79	63	69
29	72	64	68	---	---	---	95	64	76	77	66	71
30	72	58	64	66	57	60	88	67	74	77	65	71
31	---	---	---	65	55	58	82	67	74	---	---	---
MONTH	---	---	---	---	---	---	95	43	65	96	44	69

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	60	50	53	62	56	58	84	80	83	83	81	82
2	62	55	59	58	52	54	84	81	83	83	81	82
3	64	57	61	54	50	52	85	81	83	83	81	82
4	64	55	60	53	50	51	85	82	83	82	80	81
5	68	58	63	56	51	53	85	83	84	82	80	81
6	67	61	64	59	54	56	84	81	83	82	79	81
7	68	61	65	60	57	58	83	81	82	80	78	79
8	70	65	67	63	58	60	84	80	82	80	77	78
9	70	66	68	61	56	59	82	79	80	81	78	79
10	71	67	69	62	57	59	81	79	80	79	76	78
11	70	68	69	66	61	63	80	77	79	80	77	78
12	71	68	70	72	64	68	80	77	79	82	77	80
13	72	68	70	77	71	74	80	78	79	83	79	81
14	71	63	68	75	71	74	79	77	78	85	81	82
15	65	61	63	76	72	74	80	77	79	82	75	77
16	65	61	63	75	72	73	81	78	80	79	75	77
17	65	62	64	75	72	73	81	80	81	80	77	79
18	66	62	64	78	73	75	82	80	81	80	77	79
19	67	65	66	82	76	79	80	78	80	82	78	80
20	68	63	66	82	79	80	81	78	79	83	80	82
21	65	62	63	81	78	80	80	77	78	87	82	84
22	67	64	65	80	77	79	81	79	80	87	86	86
23	67	62	65	78	75	76	82	79	81	87	85	86
24	65	61	62	78	75	76	82	78	80	87	84	85
25	65	61	63	82	76	79	78	76	77	86	82	84
26	65	62	63	82	78	80	79	76	77	84	82	83
27	65	63	64	80	79	80	79	76	77	87	83	85
28	66	62	64	82	78	80	79	78	78	86	83	84
29	63	58	60	82	79	81	82	79	80	85	83	84
30	63	59	61	81	79	80	82	80	81	87	84	86
31	63	60	62	---	---	---	82	81	82	87	85	86
MONTH	72	50	64	82	50	69	85	76	80	87	75	82
		FEBRUARY			MARCH			APRIL			MAY	
1	88	85	86	89	86	87	85	79	82	85	78	81
2	89	85	87	90	85	87	83	78	81	85	78	82
3	89	86	87	90	85	88	80	77	79	83	77	80
4	87	85	86	89	85	87	85	76	81	86	75	79
5	88	85	87	90	86	88	86	80	83	90	77	83
6	88	85	87	92	89	90	89	81	85	107	74	91
7	88	86	87	93	91	92	90	77	83	95	70	77
8	88	86	87	93	90	92	85	70	79	77	72	74
9	91	87	88	92	89	91	78	70	74	78	70	74
10	90	88	89	92	89	91	76	71	74	79	67	75
11	89	86	87	92	89	91	83	75	80	76	65	71
12	87	85	86	91	87	89	84	73	79	76	70	72
13	88	86	87	90	86	88	76	68	73	75	71	73
14	89	86	87	91	88	89	72	65	68	74	69	72
15	87	85	86	91	87	89	82	70	78	74	69	71
16	87	85	86	91	87	89	84	78	81	72	67	70
17	86	79	84	90	87	88	86	80	83	70	64	67
18	84	80	82	90	86	88	87	79	83	69	63	65
19	85	80	83	91	89	90	87	79	83	68	65	67
20	86	81	84	92	89	91	87	78	82	70	65	68
21	86	83	84	93	90	91	84	77	80	71	63	68
22	86	83	85	95	91	92	84	73	78	69	64	67
23	89	84	86	94	89	91	77	71	74	68	62	66
24	90	86	87	90	85	88	79	66	72	70	63	67
25	89	85	86	86	83	84	72	65	69	69	62	65
26	87	83	85	84	82	83	75	67	72	67	62	64
27	88	84	86	82	78	81	79	73	76	74	60	66
28	89	87	88	82	77	79	81	73	77	71	62	67
29	---	---	---	81	77	80	81	76	79	71	64	69
30	---	---	---	83	77	80	83	75	80	69	64	67
31	---	---	---	85	77	80	---	---	---	70	61	65
MONTH	91	79	86	95	77	88	90	65	78	107	60	72

0208114150 ROANOKE RIVER AT NC 45 NEAR WESTOVER, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	70	62	66	57	42	51	62	48	55	76	52	66
2	80	64	70	53	38	47	---	---	---	78	56	66
3	67	57	62	52	37	45	---	---	---	83	61	70
4	58	54	56	57	46	51	---	---	---	90	65	73
5	58	54	56	78	43	53	---	---	---	95	65	79
6	63	56	59	58	44	52	63	46	52	99	73	86
7	62	58	60	57	41	49	63	46	53	98	76	84
8	64	58	60	71	47	61	59	49	53	88	69	77
9	66	60	62	73	50	60	62	52	56	85	68	75
10	68	59	63	76	51	61	57	47	53	98	73	82
11	71	62	66	76	46	60	56	42	49	98	72	84
12	72	62	66	70	50	62	52	40	47	99	74	84
13	73	53	60	75	60	68	68	42	53	107	82	96
14	72	60	66	79	59	67	69	57	62	113	87	95
15	72	61	66	86	63	70	73	63	68	123	94	111
16	78	65	70	74	67	70	75	65	68	98	63	76
17	72	64	67	73	69	70	71	63	67	68	48	60
18	70	63	66	76	69	72	69	61	65	70	50	57
19	74	63	66	74	68	70	70	61	65	78	42	51
20	75	68	72	75	68	70	69	60	63	88	45	73
21	74	63	68	72	65	69	69	58	65	61	45	52
22	69	59	64	76	68	70	69	60	65	---	---	---
23	73	63	66	73	66	69	78	64	70	---	---	---
24	78	66	69	72	63	67	76	64	69	---	---	---
25	76	69	72	70	58	63	82	68	72	---	---	---
26	75	68	71	70	50	60	77	60	67	---	---	---
27	70	59	66	52	41	47	73	57	63	---	---	---
28	67	58	65	69	40	51	65	54	58	72	56	62
29	70	57	65	70	56	61	72	56	63	72	51	60
30	65	52	57	66	56	60	72	56	63	72	60	65
31	---	---	---	65	54	58	76	57	68	---	---	---
MONTH	80	52	65	86	37	61	---	---	---	---	---	---

02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'39", long 78°34'59", Granville County, Hydrologic Unit 03020101, on right bank 90 ft upstream from bridge on State Highway 96, 1.2 mi upstream from Fishing Creek, 2.5 mi east of town of Tar River, and 8 mi south of Oxford.

DRAINAGE AREA.--167 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 972: 1940-41. WSP 1112: 1941 (calendar year figures). WSP 1273: 1941(M). WSP 1723:

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 286.34 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges which are poor. Occasional intermittent diversion for irrigation. Maximum discharge for period of record from rating curve extended above 11,500 ft^3/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	31	168	61	245	981	216	74	20	6.0	2.8	0.70
2	42	30	143	59	173	355	582	138	20	5.6	2.8	0.59
3	38	29	121	58	161	221	720	92	23	5.6	2.8	0.49
4	37	103	99	57	373	171	298	61	31	5.2	2.1	0.47
5	34	278	85	57	277	148	204	51	39	5.0	1.8	0.42
6	29	156	77	58	198	133	166	54	33	4.5	1.6	0.35
7	26	91	90	55	156	123	146	59	28	4.1	1.7	0.29
8	24	64	92	53	134	265	498	55	25	4.4	1.6	0.27
9	23	51	85	51	120	455	328	49	21	4.6	69	0.22
10	21	45	1,380	51	118	235	226	43	21	4.1	217	e0.21
11	20	40	2,370	50	119	175	166	42	19	4.1	48	e0.20
12	19	52	419	48	100	163	141	40	18	4.1	21	e0.18
13	29	1,120	251	48	86	147	140	38	17	3.8	11	e0.21
14	80	386	e194	1,310	81	127	196	35	16	3.5	7.1	e0.23
15	66	182	e151	1,880	89	112	157	34	15	4.3	5.9	e0.22
16	44	130	121	377	100	118	116	33	13	4.8	4.8	0.22
17	34	101	106	247	94	786	94	32	12	3.8	3.8	0.26
18	27	83	99	179	81	951	84	30	10	3.0	3.4	0.29
19	23	74	91	141	69	448	80	29	9.5	3.2	2.6	0.35
20	805	65	84	127	63	288	74	29	9.2	9.0	2.3	0.48
21	227	60	77	133	63	216	67	32	8.9	4.2	1.9	1.0
22	127	56	69	138	66	173	62	32	8.3	3.2	1.7	1.1
23	82	73	78	134	66	207	59	30	8.1	14	1.6	e0.90
24	61	342	151	113	84	484	62	28	7.2	5.1	1.6	e0.80
25	54	348	142	102	209	314	60	27	6.8	2.8	1.6	e0.70
26	49	220	103	111	169	217	53	26	6.5	1.9	1.5	e0.64
27	44	138	83	124	121	182	51	25	6.3	1.7	1.3	e0.62
28	41	679	71	98	683	1,020	49	24	6.3	1.5	1.1	e0.56
29	37	477	66	78	---	1,550	46	22	7.3	3.4	1.0	e0.54
30	34	231	65	152	---	432	49	22	7.0	3.7	0.90	e0.52
31	32	---	63	381	---	272	---	21	---	3.0	0.82	---
TOTAL	2,260	5,735	7,194	6,531	4,298	11,469	5,190	1,307	472.4	137.2	428.12	14.03
MEAN	72.9	191	232	211	154	370	173	42.2	15.7	4.43	13.8	0.47
MAX	805	1,120	2,370	1,880	683	1,550	720	138	39	14	217	1.1
MIN	19	29	63	48	63	112	46	21	6.3	1.5	0.82	0.18
CFSM	0.44	1.14	1.39	1.26	0.92	2.22	1.04	0.25	0.09	0.03	0.08	0.00
IN.	0.50	1.28	1.60	1.45	0.96	2.55	1.16	0.29	0.11	0.03	0.10	0.00

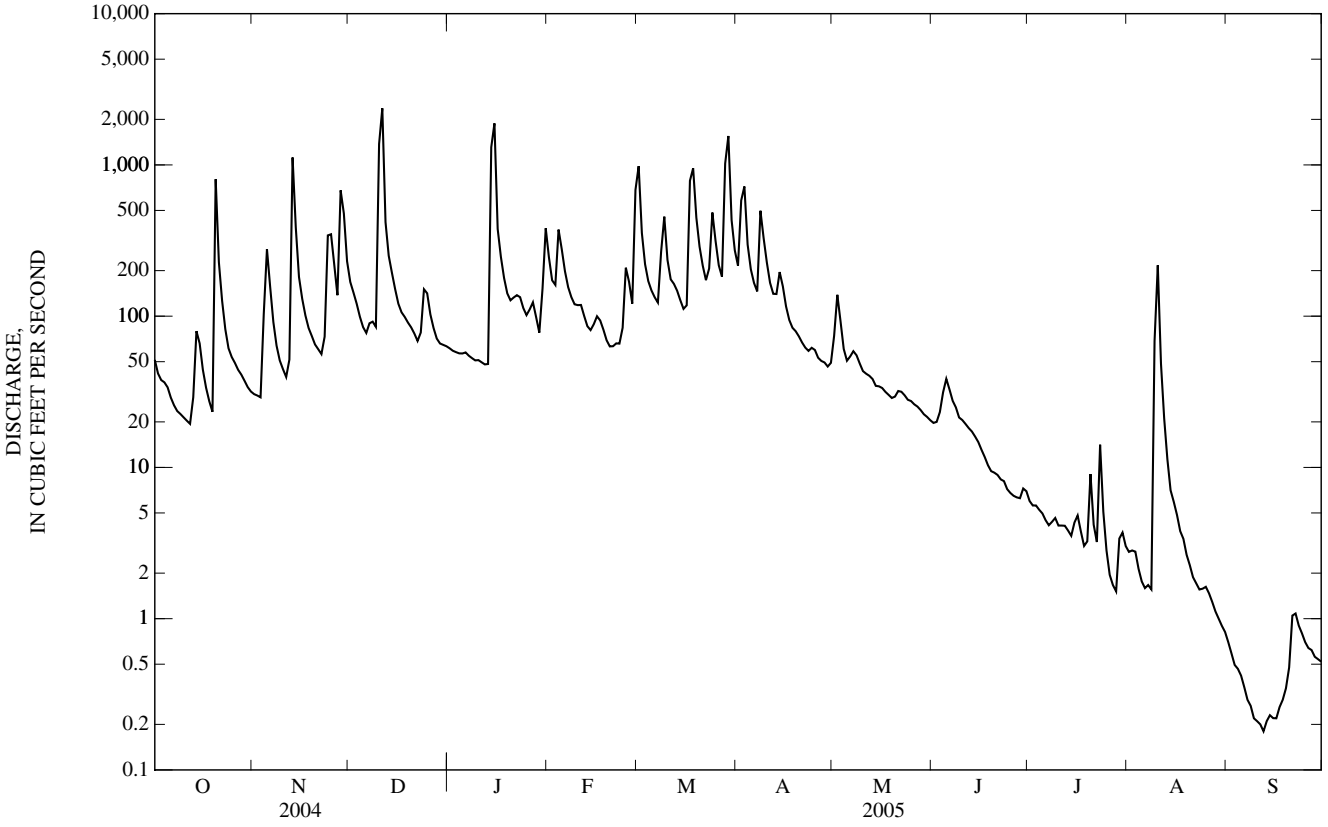
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	70.5	111	151	251	315	338	219	120	77.6	79.5	78.2	84.0
MAX	565	599	558	819	798	1,047	739	475	488	677	542	939
(WY)	(1972)	(1973)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1982)	(1975)	(1955)	(1999)
MIN	0.41	0.28	4.39	7.04	44.4	61.0	33.1	12.1	2.36	0.92	1.39	0.28
(WY)	(1971)	(1942)	(1942)	(1942)	(2002)	(1981)	(1995)	(2002)	(2002)	(1966)	(1976)	(1968)

02081500 TAR RIVER NEAR TAR RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	50,286.5		45,035.75			
ANNUAL MEAN	137		123		157	
HIGHEST ANNUAL MEAN					384	2003
LOWEST ANNUAL MEAN					26.6	2002
HIGHEST DAILY MEAN	2,940	Aug 31	2,370	Dec 11	10,800	Sep 7, 1996
LOWEST DAILY MEAN	8.0	Jul 10	0.18	Sep 12	0.02	Aug 13, 1977
ANNUAL SEVEN-DAY MINIMUM	9.6	Jul 5	0.21	Sep 9	0.07	Aug 8, 1977
MAXIMUM PEAK FLOW			4,100	Dec 11	19,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			10.26	Dec 11	24.06	Sep 6, 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	0.823		0.739		0.941	
ANNUAL RUNOFF (INCHES)	11.20		10.03		12.79	
10 PERCENT EXCEEDS	258		268		326	
50 PERCENT EXCEEDS	66		52		45	
90 PERCENT EXCEEDS	19		1.5		3.4	

* See REMARKS.
e Estimated.



02081747 TAR RIVER AT U.S. HIGHWAY 401 AT LOUISBURG, NC

LOCATION.--Lat 36°05'35", long 78°17'46", Franklin County, Hydrologic Unit 03020101, on left bank 0.1 mi downstream of bridge on U.S. Highway 401 (Bickett Boulevard) at Louisburg, and 0.2 mi upstream from Fox Creek.

DRAINAGE AREA.--427 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year. Published as "Tar River at Louisburg, NC" (02081740) October 1963 to September 1973. Prior to October 1972, medium- and high-water discharges only.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 175.75 ft above NAVD OF 1988. Prior to Nov. 21, 1973, nonrecording gage at bridge 0.4 mi upstream at 178.53 ft; Nov. 22, 1973, to June 24, 1980, at site 0.1 mi upstream at same datum. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Sept. 13.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of December 1934, September 1945, and August 1955 reached stages of 26, 24, and 24 ft, respectively, at site and datum 0.4 mi upstream, from U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	182	139	514	234	648	2,170	598	220	75	72	63	12
2	165	136	453	228	497	1,180	652	331	92	53	52	11
3	153	136	403	220	439	613	1,510	298	132	46	43	11
4	159	197	357	218	591	499	816	208	163	42	34	9.6
5	143	541	317	218	674	446	561	169	134	38	29	9.2
6	132	492	288	216	532	413	487	293	127	35	26	8.9
7	115	336	297	214	455	383	443	382	188	33	23	8.0
8	106	246	357	206	408	556	519	261	493	46	21	7.4
9	102	201	326	204	378	1,240	662	190	248	43	23	6.8
10	101	171	573	199	366	736	544	160	150	44	469	6.4
11	97	156	2,630	195	347	549	445	144	132	37	288	6.3
12	92	203	3,020	194	325	512	390	137	113	32	88	6.0
13	173	984	708	195	293	473	396	415	92	30	49	6.7
14	448	1,310	531	711	279	424	406	443	83	28	34	7.4
15	306	557	450	2,850	279	389	421	219	75	28	27	7.7
16	204	423	391	2,590	286	381	345	242	65	29	24	7.5
17	171	349	357	655	297	906	292	165	58	26	36	7.4
18	143	303	338	517	263	2,170	268	135	52	25	52	7.5
19	e134	268	324	434	234	1,270	256	132	49	24	50	7.2
20	e1,650	246	302	406	218	737	247	184	51	49	34	7.3
21	1,020	228	266	407	221	589	231	194	49	74	27	15
22	444	215	264	408	228	511	215	144	47	42	23	23
23	310	280	291	396	227	523	214	120	45	143	20	23
24	234	540	405	373	282	825	198	109	42	170	24	17
25	201	723	428	399	418	803	189	112	40	62	30	13
26	187	570	361	382	467	587	181	105	38	40	25	11
27	171	442	e301	379	370	517	178	99	40	33	20	10
28	160	746	e271	352	592	844	170	90	69	28	17	9.5
29	152	1,420	253	300	---	2,860	168	87	108	30	15	8.8
30	148	665	251	397	---	2,330	180	83	97	41	14	8.1
31	145	---	245	659	---	736	---	79	---	61	14	---
TOTAL	7,948	13,223	16,272	15,356	10,614	27,172	12,182	5,950	3,147	1,484	1,694	299.7
MEAN	256	441	525	495	379	877	406	192	105	47.9	54.6	9.99
MAX	1,650	1,420	3,020	2,850	674	2,860	1,510	443	493	170	469	23
MIN	92	136	245	194	218	381	168	79	38	24	14	6.0
CFSM	0.60	1.03	1.23	1.16	0.89	2.05	0.95	0.45	0.25	0.11	0.13	0.02
IN.	0.69	1.15	1.42	1.34	0.92	2.37	1.06	0.52	0.27	0.13	0.15	0.03

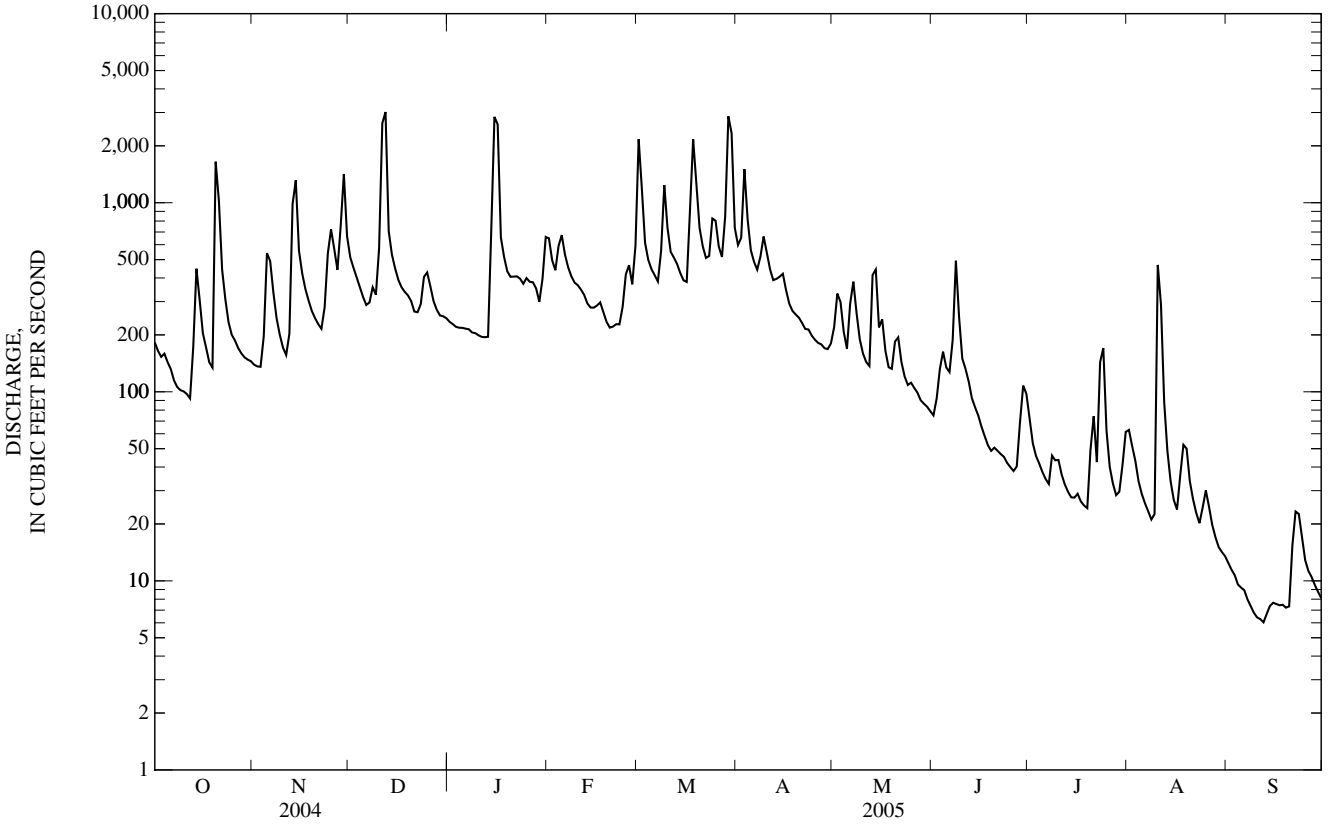
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	195	287	417	760	764	963	623	361	241	226	180	301
MAX	809	1,192	1,108	1,845	1,956	2,726	1,557	984	1,451	1,692	657	2,949
(WY)	(2003)	(1986)	(1984)	(1978)	(1998)	(1998)	(1993)	(1989)	(1982)	(1975)	(2004)	(1999)
MIN	28.5	34.9	64.5	78.0	175	214	127	54.2	14.1	29.8	26.8	9.99
(WY)	(1987)	(1999)	(2002)	(1981)	(2002)	(1988)	(1995)	(2002)	(2002)	(2002)	(1988)	(2005)

02081747 TAR RIVER AT U.S. HIGHWAY 401 AT LOUISBURG, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	127,165		115,341.7			
ANNUAL MEAN	347		316		442	
HIGHEST ANNUAL MEAN					765	2003
LOWEST ANNUAL MEAN					124	2002
HIGHEST DAILY MEAN	3,710	Aug 16	3,020	Dec 12	22,400	Sep 17, 1999
LOWEST DAILY MEAN	36	Jul 10	6.0	Sep 12	2.1	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	58	Jul 4	6.7	Sep 8	2.7	Aug 11, 2002
MAXIMUM PEAK FLOW			3,700	Dec 12	23,700	Sep 17, 1999
MAXIMUM PEAK STAGE			15.95	Dec 12	26.05	Sep 17, 1999
INSTANTANEOUS LOW FLOW			5.6*	Sep 12	1.7	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	0.814		0.740		1.03	
ANNUAL RUNOFF (INCHES)	11.08		10.05		14.06	
10 PERCENT EXCEEDS	599		627		896	
50 PERCENT EXCEEDS	206		206		180	
90 PERCENT EXCEEDS	81		23		38	

* See REMARKS.
e Estimated.



02081747 TAR RIVER AT US HIGHWAY 401 AT LOUISBURG, NC—Continued

PRECIPITATION RECORDS

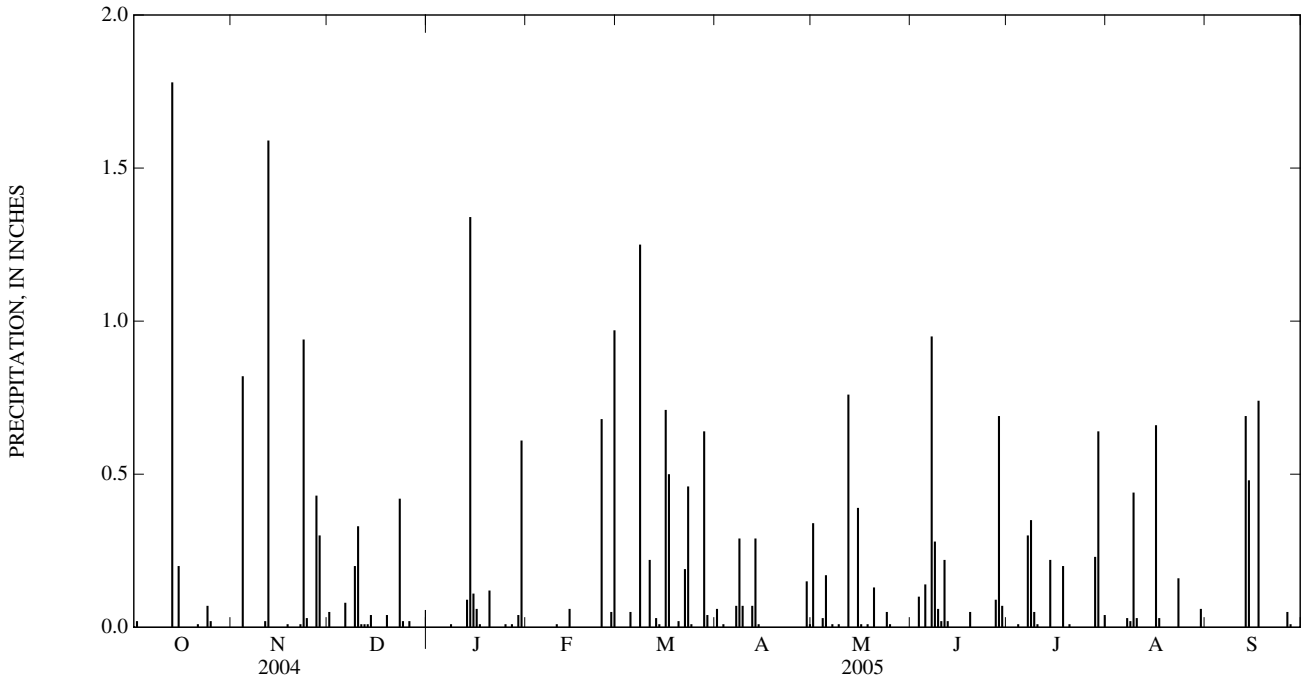
PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.00	0.06	0.34	0.00	0.00	0.00	---
2	0.02	0.00	0.00	0.00	0.00	0.00	---	0.00	---	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	0.00	0.01	0.00	0.10	0.00	0.00	0.00
4	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.17	0.14	0.00	0.00	0.00
6	0.00	0.00	0.08	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.95	0.30	0.03	0.00
8	0.00	0.00	0.00	0.01	0.00	1.25	0.29	0.00	0.28	0.35	0.02	0.00
9	0.00	0.00	0.20	0.00	0.00	0.00	0.07	0.01	0.06	0.05	0.44	0.00
10	0.00	0.00	0.33	0.00	0.01	0.00	0.00	0.00	0.02	0.01	0.03	0.00
11	0.00	0.02	0.01	0.00	0.00	0.22	0.00	0.00	0.22	0.00	0.00	0.00
12	0.00	1.59	0.01	0.00	0.00	0.00	0.07	0.76	0.02	0.00	0.00	0.00
13	1.78	0.00	0.01	0.09	0.00	0.03	0.29	0.00	0.00	0.00	0.00	0.69
14	0.00	0.00	0.04	1.34	0.06	0.01	0.01	0.00	0.00	0.22	0.00	0.48
15	0.20	0.00	0.00	0.11	0.00	0.00	0.00	0.39	0.00	---	0.00	0.00
16	0.00	0.00	0.00	0.06	0.00	0.71	0.00	0.01	0.00	0.00	0.66	0.00
17	0.00	0.00	0.00	0.01	0.00	0.50	0.00	0.00	0.00	0.00	0.03	0.74
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.20	0.00	0.00
19	---	0.00	0.04	0.00	0.00	0.00	0.00	---	0.05	---	0.00	0.00
20	---	0.00	0.00	0.12	---	0.02	0.00	0.13	0.00	0.01	0.00	---
21	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
22	0.00	0.01	0.00	0.00	0.00	0.19	0.00	0.00	0.00	---	0.00	---
23	0.00	0.94	0.42	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.16	0.00
24	0.07	0.03	0.02	---	0.68	0.01	0.00	0.05	0.00	0.00	0.00	0.00
25	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
26	---	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05
27	0.00	0.43	---	0.01	0.05	0.00	0.00	0.00	0.09	0.00	0.00	0.01
28	---	0.30	---	0.00	0.97	0.64	0.00	0.00	0.69	0.23	0.00	---
29	0.00	0.00	0.00	0.04	---	0.04	0.15	0.00	0.07	0.64	0.00	---
30	0.00	0.00	0.00	0.61	---	0.00	0.01	0.00	0.00	---	0.06	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.04	0.00	---
TOTAL	---	4.15	---	---	---	4.13	---	---	---	---	1.43	---



02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC

LOCATION.--Lat 35°54'02", long 77°51'56", Nash County, Hydrologic Unit 03020101, near center of span on downstream side of bridge on Secondary Road 1544, 1.8 mi downstream of Tar River Reservoir, 2.8 mi downstream of Sapony Creek, 2.9 mi upstream from Grape Branch, and 5.0 mi southwest of Rocky Mount.

DRAINAGE AREA.--777 mi^2.

PERIOD OF RECORD.--August 1972 to current year.

GAGE.--Water-stage recorder. Datum of gage is 84.85 ft above NAVD of 1988 (levels by North Carolina State Highway Commission). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The city of Rocky Mount diverted an average of 4.3 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year due to regulation. Minimum discharge for period of record also occurred Oct. 29, 30, 1993. Maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	536	287	1,340	609	1,150	1,600	1,670	396	276	277	261	48
2	490	289	938	587	1,130	2,690	1,440	446	287	264	253	103
3	416	283	766	549	898	2,010	1,620	501	376	229	221	97
4	387	295	669	506	903	1,170	2,100	504	407	198	188	92
5	354	302	602	485	1,050	873	1,520	452	390	177	156	86
6	331	520	552	475	1,160	763	1,050	761	415	146	124	86
7	310	646	526	442	931	688	851	1,300	455	119	92	85
8	287	505	511	442	775	730	812	1,280	545	103	72	79
9	272	417	552	424	686	1,280	1,500	913	836	92	63	78
10	252	365	649	423	643	2,010	1,400	637	767	103	67	78
11	239	334	1,090	407	611	1,530	1,200	506	550	110	116	77
12	233	338	2,510	395	572	1,080	901	442	457	112	328	79
13	264	559	3,000	401	530	907	934	556	410	108	286	78
14	597	1,380	1,530	947	519	843	1,080	846	352	95	203	76
15	859	1,830	873	2,500	501	748	1,010	868	303	85	145	76
16	871	1,080	701	3,620	499	730	897	867	266	78	109	78
17	658	727	602	3,360	493	1,350	737	1,030	237	72	105	78
18	490	584	555	1,560	489	2,310	630	892	219	70	94	78
19	408	508	533	990	467	3,050	567	666	203	101	99	80
20	352	467	518	790	435	2,260	538	589	194	98	111	81
21	642	435	491	746	435	1,450	513	562	192	123	113	83
22	1,190	416	455	748	428	1,100	509	563	188	188	95	78
23	667	475	472	747	436	1,230	479	500	182	253	79	75
24	480	674	528	686	501	1,530	454	444	186	248	66	75
25	399	969	607	623	647	1,730	440	411	187	269	55	76
26	364	1,200	720	607	769	1,540	419	378	179	262	48	74
27	343	970	661	577	786	1,150	408	350	170	211	45	68
28	329	1,010	580	561	928	1,170	391	331	164	163	44	65
29	320	1,500	525	533	---	2,530	388	316	201	142	40	64
30	311	2,010	538	628	---	3,510	396	303	242	149	38	64
31	300	---	596	865	---	3,300	---	282	---	222	41	---
TOTAL	13,951	21,375	25,190	27,233	19,372	48,862	26,854	18,892	9,836	4,867	3,757	2,335
MEAN	450	712	813	878	692	1,576	895	609	328	157	121	77.8
MAX	1,190	2,010	3,000	3,620	1,160	3,510	2,100	1,300	836	277	328	103
MIN	233	283	455	395	428	688	388	282	164	70	38	48
CFSM	0.58	0.92	1.05	1.13	0.89	2.03	1.15	0.78	0.42	0.20	0.16	0.10
IN.	0.67	1.02	1.21	1.30	0.93	2.34	1.29	0.90	0.47	0.23	0.18	0.11

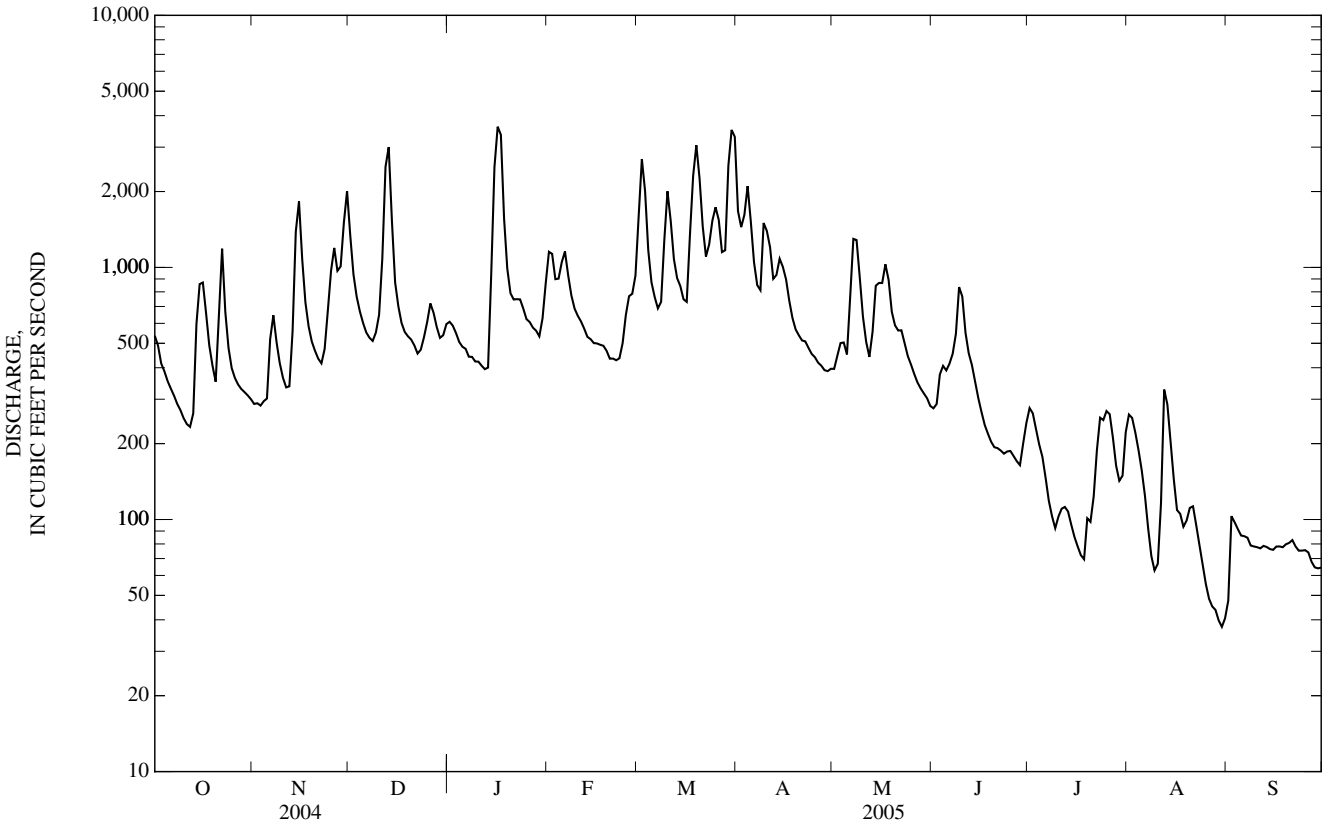
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2005, BY WATER YEAR (WY)

MEAN	396	542	757	1,284	1,372	1,700	1,143	698	509	444	404	571
MAX	2,157	1,876	2,406	2,794	3,002	3,829	2,864	2,123	2,064	2,321	1,224	6,436
(WY)	(2000)	(1973)	(1973)	(1978)	(1998)	(1998)	(1987)	(1989)	(1982)	(1975)	(2004)	(1999)
MIN	60.2	66.2	109	186	456	358	284	128	72.7	53.9	77.9	75.4
(WY)	(1994)	(1981)	(1992)	(1981)	(1991)	(1981)	(1981)	(2002)	(2002)	(2002)	(1988)	(1993)

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1972 - 2005	
ANNUAL TOTAL	245,994		222,524			
ANNUAL MEAN	672		610		817	
HIGHEST ANNUAL MEAN					1,471	1973
LOWEST ANNUAL MEAN					211	1981
HIGHEST DAILY MEAN	5,030	Aug 17	3,620	Jan 16	25,000	Sep 17, 1999
LOWEST DAILY MEAN	115	Jun 23	38	Aug 30	29	Oct 28, 1993
ANNUAL SEVEN-DAY MINIMUM	132	Jun 19	43	Aug 26	36	Oct 27, 1993
MAXIMUM PEAK FLOW			3,760	Jan 16	29,300	Sep 16, 1999
MAXIMUM PEAK STAGE			11.53	Jan 16	32.89*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			30*	Sep 1	28*	Oct 28, 1993
ANNUAL RUNOFF (CFSM)	0.865		0.785		1.05	
ANNUAL RUNOFF (INCHES)	11.78		10.65		14.28	
10 PERCENT EXCEEDS	1,340		1,290		1,940	
50 PERCENT EXCEEDS	485		472		390	
90 PERCENT EXCEEDS	186		80		97	

* See REMARKS.



0208250885 TAR RIVER AT US HIGHWAY 301 BYPASS AT ROCKY MOUNT, NC

LOCATION.--Lat 35°55'34", long 77°49'50", Nash County, Hydrologic Unit 03020101, at bridge on US Highway 301 bypass, approximately 2 mi southwest of Rocky Mount.

DRAINAGE AREA.--787 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--May 2003 to current year.

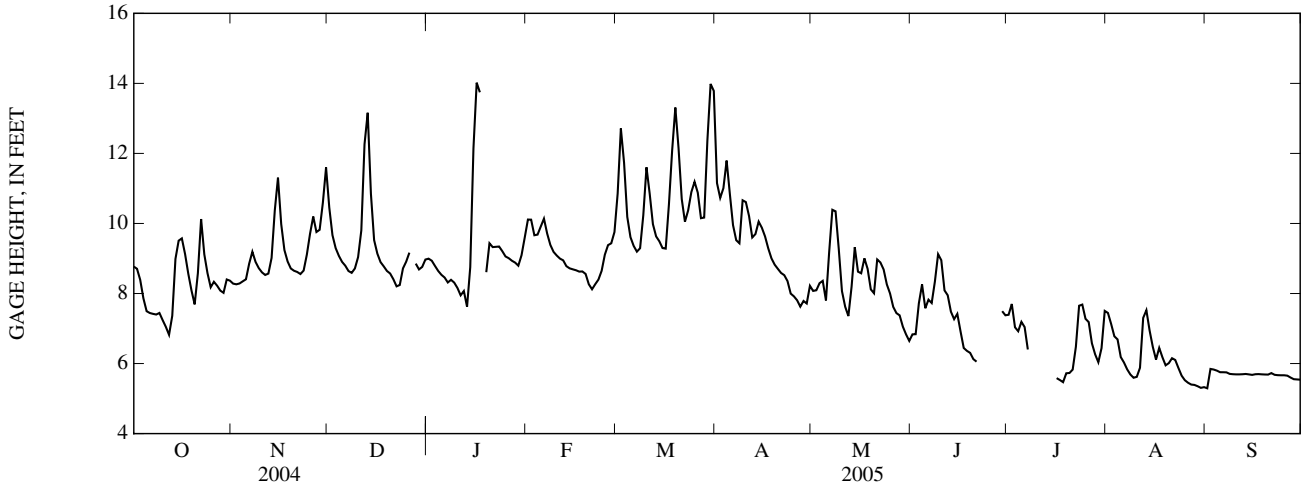
GAGE.--Water-stage recorder. Datum of gage is 75.00 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 16.16 ft, Aug. 17, 2004; minimum gage height, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.26 ft, March 31; minimum gage height, not determined.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.77	8.28	10.46	9.00	10.11	10.86	11.15	8.07	6.83	7.39	7.45	5.29
2	8.71	8.26	9.67	8.94	10.11	12.71	10.73	8.09	6.84	7.70	7.13	5.85
3	8.39	8.29	9.30	8.79	9.66	11.74	11.01	8.29	7.72	7.04	6.78	5.83
4	7.86	8.35	9.07	8.64	9.68	10.19	11.79	8.36	8.26	6.92	6.69	5.80
5	7.49	8.41	8.90	8.53	9.91	9.61	10.85	7.80	7.58	7.19	6.19	5.75
6	7.44	8.85	8.79	8.46	10.14	9.36	9.95	9.18	7.82	7.04	6.03	5.75
7	7.42	9.19	8.64	8.32	9.71	9.20	9.52	10.39	7.73	6.40	5.83	5.75
8	7.40	8.90	8.59	8.39	9.39	9.29	9.43	10.35	8.34	---	5.69	5.70
9	7.44	8.73	8.72	8.31	9.19	10.23	10.66	9.27	9.12	---	5.59	5.70
10	7.24	8.60	9.04	8.16	9.08	11.60	10.61	8.07	8.95	---	5.62	5.69
11	7.05	8.53	9.80	7.95	9.00	10.84	10.21	7.62	8.09	---	5.88	5.69
12	6.82	8.57	12.26	8.07	8.95	9.98	9.60	7.36	7.95	---	7.30	5.70
13	7.36	9.02	13.16	7.62	8.78	9.63	9.70	8.20	7.48	---	7.52	5.70
14	8.99	10.37	10.85	8.75	8.72	9.49	10.05	9.32	7.27	---	6.95	5.69
15	9.51	11.31	9.52	12.14	8.69	9.30	9.88	8.62	7.42	---	6.48	5.68
16	9.57	9.98	9.14	14.02	8.66	9.28	9.63	8.58	6.92	5.58	6.11	5.69
17	9.13	9.24	8.90	13.74	8.63	10.55	9.29	9.00	6.44	5.53	6.45	5.70
18	8.57	8.91	8.78	---	8.63	12.08	9.00	8.70	6.36	5.47	6.18	5.69
19	8.09	8.71	8.64	8.61	8.56	13.31	8.82	8.12	6.30	5.72	5.95	5.69
20	7.69	8.65	8.57	9.43	8.26	12.15	8.70	8.01	6.13	5.73	6.01	5.68
21	8.58	8.61	8.41	9.33	8.12	10.70	8.59	8.97	6.05	5.83	6.15	5.73
22	10.13	8.56	8.20	9.33	8.27	10.05	8.52	8.89	---	6.48	6.10	5.68
23	9.12	8.66	8.24	9.34	8.40	10.37	8.35	8.69	---	7.65	5.87	5.67
24	8.58	9.11	8.72	9.21	8.65	10.90	8.00	8.26	---	7.68	5.65	5.67
25	8.18	9.71	8.91	9.06	9.11	11.19	7.92	8.00	---	7.28	5.52	5.66
26	8.34	10.20	9.17	9.01	9.38	10.88	7.81	7.62	---	7.18	5.45	5.65
27	8.22	9.76	---	8.94	9.43	10.15	7.62	7.44	---	6.58	5.40	5.60
28	8.08	9.82	8.85	8.88	9.76	10.17	7.79	7.38	---	6.26	5.39	5.55
29	8.02	10.59	8.69	8.79	---	12.36	7.71	7.05	7.49	6.04	5.35	5.55
30	8.40	11.60	8.76	9.09	---	13.98	8.22	6.83	7.38	6.44	5.31	5.54
31	8.37	---	8.97	9.60	---	13.79	---	6.65	---	7.50	5.33	---
MEAN	8.22	9.19	---	---	9.11	10.84	9.37	8.30	---	---	6.11	5.68
MAX	10.13	11.60	---	---	10.14	13.98	11.79	10.39	---	---	7.52	5.85
MIN	6.82	8.26	---	---	8.12	9.20	7.62	6.65	---	---	5.31	5.29



0208250885 TAR RIVER AT US HIGHWAY 301 BYPASS AT ROCKY MOUNT, NC—Continued

PRECIPITATION RECORDS

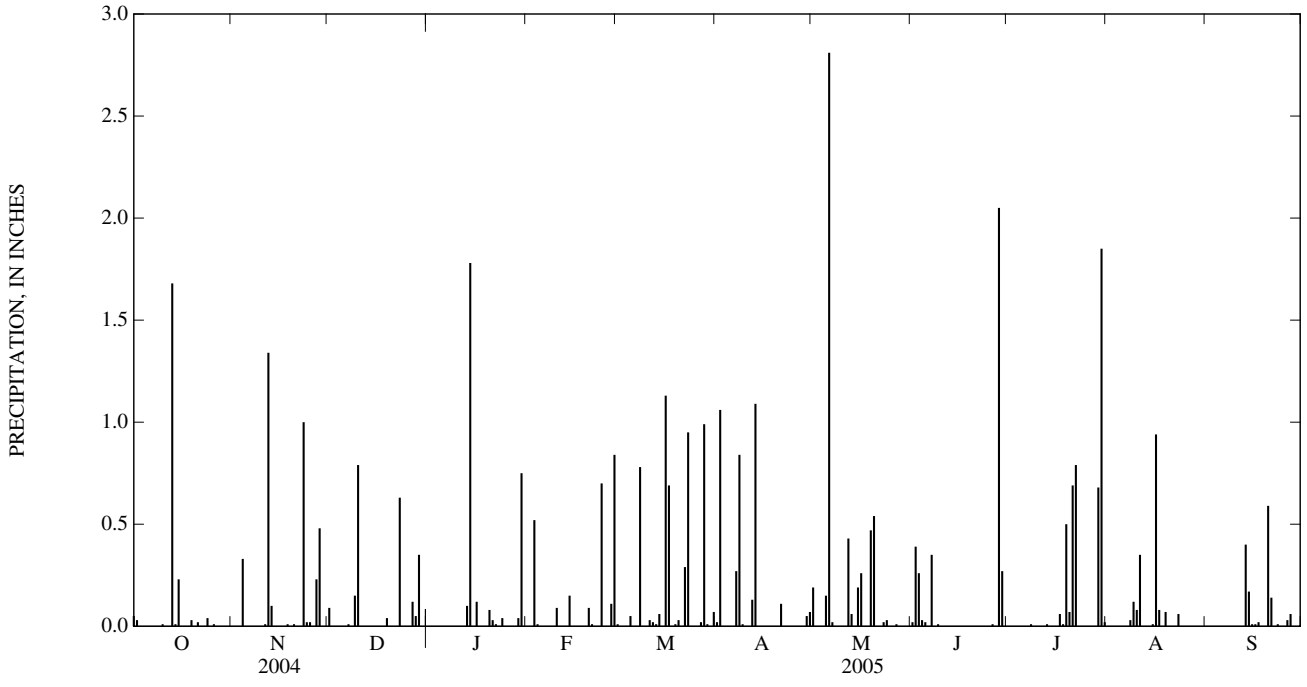
PERIOD OF RECORD.--September 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	0.00	0.09	0.00	0.00	0.01	0.02	0.19	0.02	0.00	0.00	0.00
2	0.03	0.00	0.00	0.00	0.00	0.00	1.06	0.00	0.39	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.26	0.00	0.00	0.00
4	0.00	0.33	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.15	0.02	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.81	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.00	0.27	0.02	0.35	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.78	0.84	0.00	0.00	0.01	0.03	0.00
9	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.12	0.00
10	0.01	0.00	0.79	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.08	0.00
11	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.35	0.00
12	0.00	1.34	0.00	0.00	0.00	0.02	0.13	0.43	0.00	0.00	0.00	0.00
13	1.68	0.10	0.00	0.10	0.00	0.01	1.09	0.06	0.00	0.01	0.00	0.40
14	0.01	0.00	0.00	1.78	0.15	0.06	0.00	0.00	0.00	---	0.00	0.17
15	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	---	0.01	0.01
16	0.00	0.00	0.00	0.12	0.00	1.13	0.00	0.26	0.00	0.00	0.94	0.01
17	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.06	0.08	0.02
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
19	0.03	0.00	0.04	0.00	0.00	0.01	0.00	0.47	0.00	0.50	0.07	0.00
20	0.00	0.01	0.00	0.08	0.09	0.03	0.00	0.54	0.00	0.07	0.00	0.59
21	0.02	0.00	0.00	0.03	0.01	0.00	0.11	0.00	0.00	0.69	0.00	0.14
22	0.00	0.00	0.00	0.01	0.00	0.29	0.00	0.00	0.00	0.79	0.00	0.00
23	0.00	1.00	0.63	0.00	0.00	0.95	0.00	0.02	0.00	0.00	0.06	0.01
24	0.04	0.02	0.00	0.04	0.70	0.00	0.00	0.03	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03
27	0.00	0.23	0.12	0.00	0.11	0.02	0.00	0.01	0.00	0.00	0.00	0.06
28	0.00	0.48	0.05	0.00	0.84	0.99	0.00	0.00	2.05	0.00	0.00	0.00
29	0.00	0.00	0.35	0.04	---	0.01	0.05	0.00	0.27	0.68	0.00	0.00
30	0.00	0.00	0.00	0.75	---	0.00	0.07	0.00	0.00	1.85	0.00	0.00
31	0.00	---	0.00	0.00	---	0.07	---	0.00	---	0.02	0.00	---
TOTAL	2.11	3.55	2.23	2.95	2.52	5.15	3.65	5.18	3.41	---	1.74	1.44



02082576 STONY CREEK AT WINSTEAD AVENUE AT ROCKY MOUNT, NC

LOCATION.--Lat 35°58'06", long 77°50'59", Nash County, Hydrologic Unit 03020101, at bridge on Winstead Avenue, 2.2 mi above mouth and 3.3 mi northwest of Rocky Mount.

DRAINAGE AREA.--112 mi^2.

PERIOD OF RECORD.--July 2003 to current year.

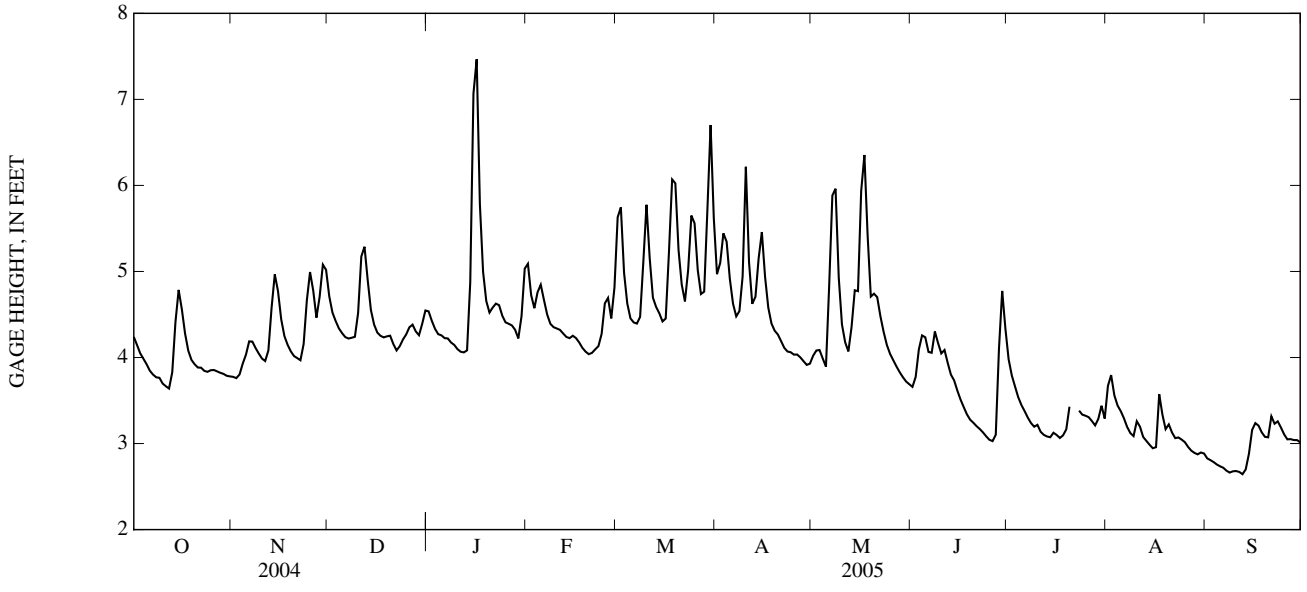
GAGE.--Water-stage recorder. Datum of gage is 90.00 ft, above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTEMES FOR PERIOD OF RECORD.--Maximum gage height, 9.66 ft, Sept. 1, 2004; minimum gage height, 2.59 ft, Sept. 13, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 7.88 ft, Jan. 16; minimum gage height, 2.59 ft, Sept. 13.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.24	3.78	4.71	4.54	5.09	5.63	4.97	4.02	3.66	3.98	3.67	2.83
2	4.15	3.76	4.52	4.43	4.73	5.74	5.10	4.08	3.77	3.79	3.80	2.81
3	4.05	3.80	4.42	4.33	4.57	4.98	5.44	4.09	4.09	3.66	3.56	2.78
4	3.99	3.93	4.34	4.27	4.76	4.63	5.35	3.99	4.26	3.54	3.44	2.76
5	3.92	4.03	4.28	4.26	4.85	4.45	4.91	3.89	4.23	3.45	3.38	2.74
6	3.85	4.19	4.24	4.22	4.67	4.41	4.63	4.83	4.06	3.38	3.29	2.72
7	3.80	4.18	4.22	4.22	4.50	4.39	4.48	5.88	4.05	3.30	3.19	2.68
8	3.77	4.11	4.23	4.17	4.39	4.47	4.54	5.96	4.30	3.24	3.12	2.66
9	3.76	4.05	4.24	4.15	4.35	5.10	4.94	4.93	4.17	3.20	3.09	2.68
10	3.70	3.99	4.52	4.10	4.34	5.77	6.22	4.38	4.05	3.22	3.26	2.68
11	3.67	3.96	5.17	4.07	4.32	5.15	5.10	4.18	4.09	3.14	3.20	2.67
12	3.64	4.08	5.29	4.06	4.28	4.70	4.62	4.07	3.94	3.10	3.08	2.64
13	3.83	4.58	4.90	4.08	4.24	4.59	4.71	4.36	3.80	3.08	3.03	2.70
14	4.41	4.97	4.55	4.88	4.23	4.51	5.15	4.78	3.73	3.07	2.99	2.88
15	4.79	4.77	4.38	7.07	4.25	4.42	5.46	4.77	3.62	3.13	2.95	3.16
16	4.56	4.44	4.29	7.47	4.23	4.45	4.94	5.94	3.51	3.10	2.96	3.24
17	4.28	4.25	4.25	5.78	4.17	5.22	4.58	6.35	3.42	3.06	3.57	3.21
18	4.08	4.15	4.23	5.00	4.11	6.07	4.39	5.42	3.34	3.10	3.34	3.13
19	3.97	4.07	4.25	4.66	4.07	6.02	4.31	4.71	3.28	3.17	3.17	3.08
20	3.92	4.02	4.25	4.52	4.04	5.25	4.27	4.74	3.24	3.43	3.22	3.07
21	3.88	3.99	4.16	4.58	4.05	4.85	4.19	4.70	3.20	---	3.13	3.32
22	3.88	3.97	4.08	4.63	4.09	4.65	4.11	4.48	3.17	---	3.06	3.23
23	3.85	4.16	4.13	4.61	4.13	5.02	4.07	4.30	3.13	3.38	3.07	3.26
24	3.83	4.66	4.21	4.49	4.27	5.65	4.06	4.15	3.08	3.34	3.05	3.19
25	3.85	4.99	4.27	4.41	4.63	5.56	4.03	4.04	3.04	3.32	3.02	3.11
26	3.85	4.78	4.35	4.39	4.69	5.01	4.03	3.97	3.03	3.31	2.96	3.05
27	3.84	4.46	4.38	4.37	4.45	4.74	4.00	3.90	3.10	3.26	2.92	3.05
28	3.82	4.71	4.30	4.32	4.81	4.77	3.96	3.83	4.10	3.21	2.89	3.04
29	3.81	5.08	4.26	4.22	---	5.71	3.91	3.77	4.77	3.29	2.87	3.04
30	3.79	5.02	4.39	4.48	---	6.70	3.93	3.72	4.34	3.44	2.90	3.01
31	3.78	---	4.55	5.03	---	5.62	---	3.69	---	3.29	2.88	---
MEAN	3.95	4.30	4.40	4.64	4.40	5.10	4.61	4.51	3.72	---	3.16	2.95
MAX	4.79	5.08	5.29	7.47	5.09	6.70	6.22	6.35	4.77	---	3.80	3.32
MIN	3.64	3.76	4.08	4.06	4.04	4.39	3.91	3.69	3.03	---	2.87	2.64



02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'17", long 77°47'14", Edgecombe County, Hydrologic Unit 03020101, on left bank 20 ft downstream of bridge on State Highway 97, 0.5 mi upstream from Cowlick Branch, and 1.0 mi north-northeast of Rocky Mount.

DRAINAGE AREA.--925 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1976 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 52.81 ft above NGVD of 1929. City of Rocky Mount telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Prior to October 1996, some regulation at low flow caused by mill above station. The city of Rocky Mount diverted an average of 18.5 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Minimum discharge for current water year and period of record, result of regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	620	261	1,500	805	1,360	1,730	1,970	483	212	281	289	33
2	599	250	1,110	753	1,330	2,780	1,770	502	312	278	256	58
3	515	248	915	688	1,130	2,260	1,880	523	534	233	178	68
4	477	270	790	630	1,140	1,360	2,220	578	591	156	175	67
5	428	283	704	592	1,230	1,080	1,740	531	512	136	136	64
6	334	500	639	572	1,330	945	1,260	1,110	484	135	109	60
7	341	736	603	537	1,130	849	1,060	1,690	506	123	106	60
8	251	555	584	518	964	942	1,040	1,690	631	105	77	57
9	299	436	622	512	844	1,360	1,560	1,320	919	92	68	56
10	247	362	815	507	790	2,140	1,790	827	947	86	73	58
11	241	315	1,180	478	742	1,770	1,460	618	664	82	72	60
12	215	376	2,380	449	705	1,270	1,110	521	545	88	212	58
13	251	707	2,990	560	649	1,100	1,190	499	491	87	280	66
14	712	1,390	1,750	1,150	620	1,020	1,380	1,110	338	89	178	62
15	1,050	1,910	1,030	2,710	615	906	1,330	1,130	300	75	127	62
16	1,080	1,250	821	4,330	601	926	1,170	1,330	268	65	111	65
17	829	872	700	3,970	586	1,650	960	1,540	210	60	110	67
18	589	669	645	1,950	571	2,450	786	1,280	155	64	98	67
19	507	580	612	1,190	553	3,300	693	950	154	67	90	63
20	334	525	593	1,030	528	2,570	644	667	139	95	79	67
21	525	484	563	971	500	1,630	606	e750	125	94	81	90
22	1,250	454	528	983	494	1,300	582	e800	116	114	79	66
23	786	579	525	986	511	1,570	564	e610	113	247	78	65
24	547	831	611	890	622	1,850	539	532	111	215	75	68
25	408	1,140	695	799	822	1,960	474	484	108	204	70	67
26	365	1,320	842	767	983	1,750	488	436	106	267	46	63
27	336	1,140	814	731	982	1,360	471	342	99	168	41	62
28	330	1,200	709	702	1,210	1,400	396	347	162	132	38	57
29	266	1,520	651	666	---	2,480	413	325	401	128	36	55
30	292	2,060	694	866	---	3,850	406	296	316	112	34	56
31	281	---	798	1,120	---	3,770	---	248	---	136	33	---
TOTAL	15,305	23,223	28,413	33,412	23,542	55,328	31,952	24,069	10,569	4,214	3,435	1,867
MEAN	494	774	917	1,078	841	1,785	1,065	776	352	136	111	62.2
MAX	1,250	2,060	2,990	4,330	1,360	3,850	2,220	1,690	947	281	289	90
MIN	215	248	525	449	494	849	396	248	99	60	33	33

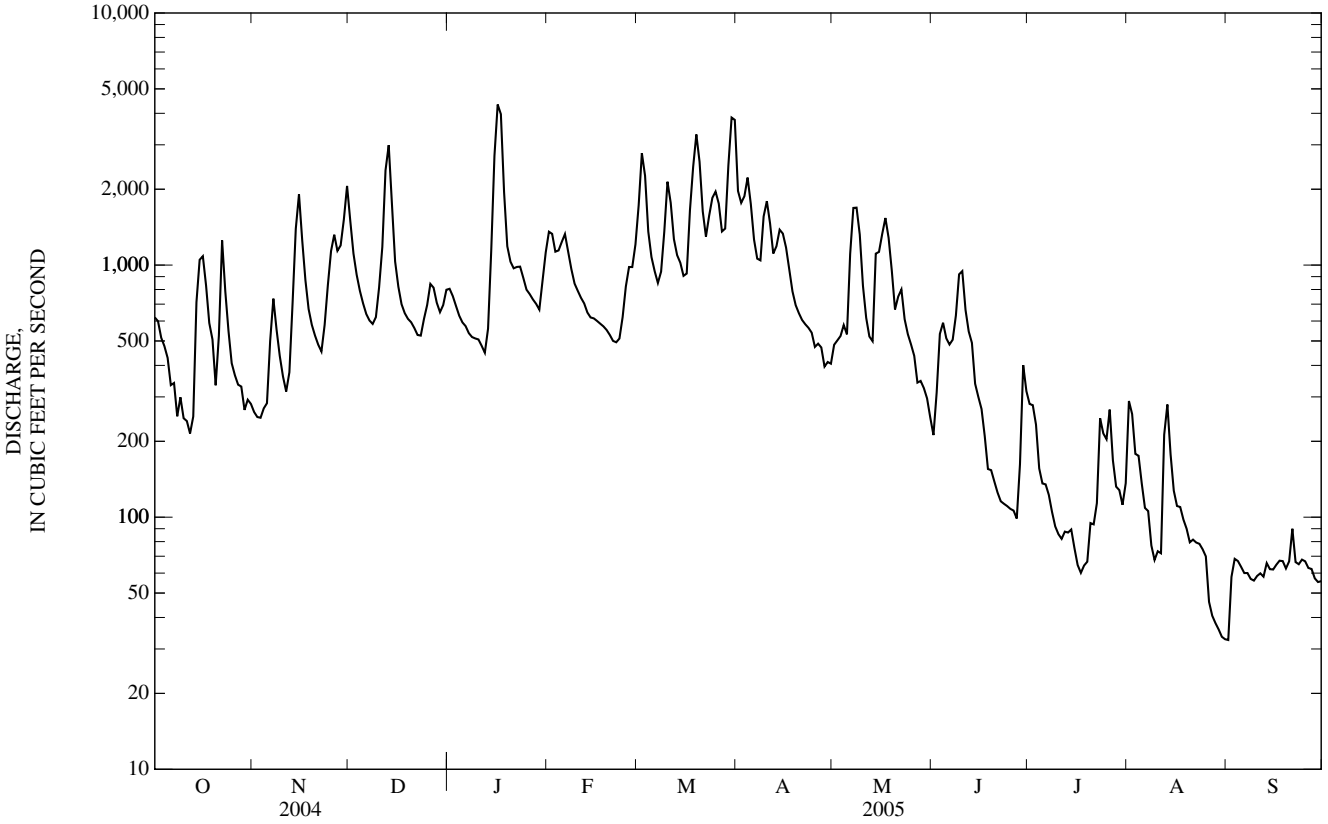
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	489	609	832	1,480	1,583	2,046	1,360	829	597	407	463	723
MAX	2,918	1,905	2,318	3,230	3,920	4,507	3,447	2,725	2,238	1,368	1,482	8,135
(WY)	(2000)	(1980)	(2003)	(1978)	(1998)	(1998)	(1987)	(1989)	(1982)	(2000)	(2004)	(1999)
MIN	70.4	74.5	125	254	546	477	332	148	67.3	54.1	79.7	62.2
(WY)	(1981)	(1981)	(1992)	(1981)	(1977)	(1981)	(1995)	(2002)	(2002)	(1986)	(1987)	(2005)

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	302,285		255,329			
ANNUAL MEAN	826		700		964	
HIGHEST ANNUAL MEAN					1,764	2003
LOWEST ANNUAL MEAN					262	1981
HIGHEST DAILY MEAN	6,120	Aug 17	4,330	Jan 16	31,500	Sep 17, 1999
LOWEST DAILY MEAN	101	Jun 19	33	Aug 31	6.6	Oct 3, 1983
ANNUAL SEVEN-DAY MINIMUM	124	Jun 17	37	Aug 26	31	Oct 18, 1993
MAXIMUM PEAK FLOW			4,560	Jan 16	34,100	Sep 17, 1999
MAXIMUM PEAK STAGE			13.60	Jan 16	31.66	Sep 17, 1999
INSTANTANEOUS LOW FLOW			24	Sep 1	5.7*	Sep 23, 1988
10 PERCENT EXCEEDS	1,510		1,530		2,260	
50 PERCENT EXCEEDS	622		539		483	
90 PERCENT EXCEEDS	211		67		98	

* See REMARKS.
e Estimated.



02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC—Continued

PRECIPITATION RECORDS

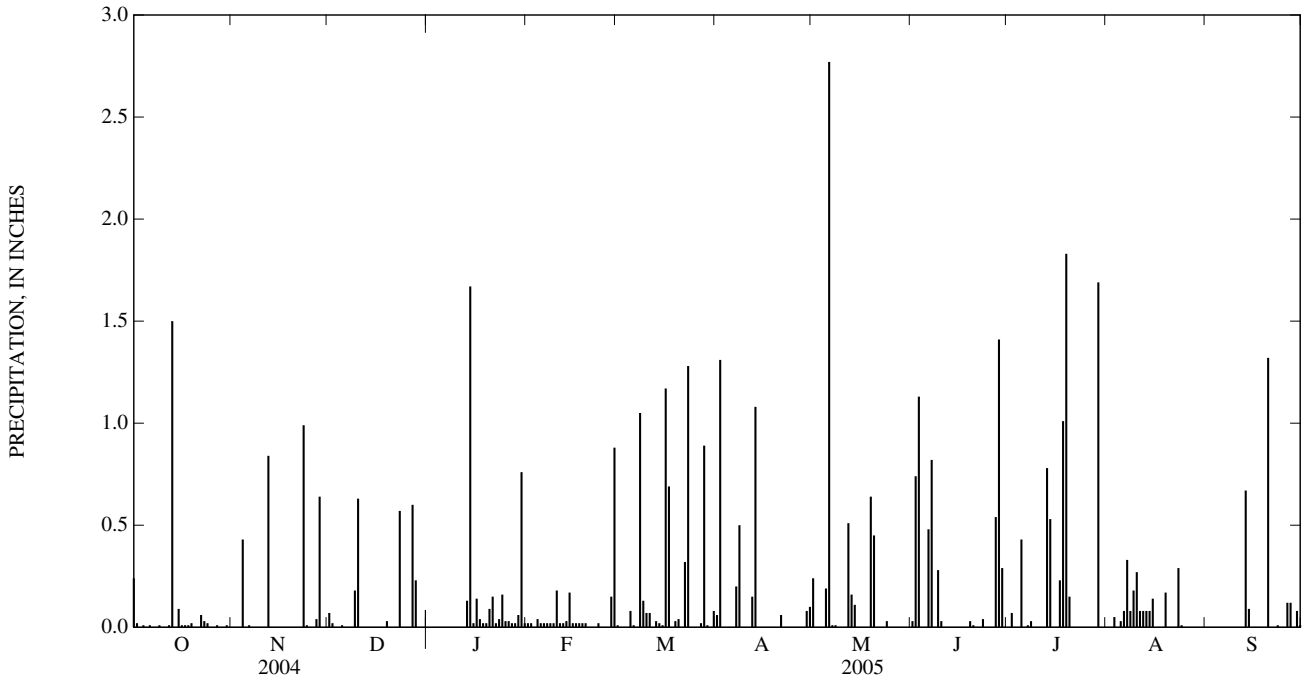
PERIOD OF RECORD.--November 2003 to September 2004.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	0.00	0.07	0.00	0.02	0.01	0.06	0.24	0.03	0.00	---	0.00
2	0.02	0.00	0.02	0.00	0.02	0.00	1.31	0.00	0.74	0.07	---	0.00
3	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	1.13	0.00	0.05	0.00
4	0.01	0.43	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.02	0.08	0.00	0.19	0.00	0.43	0.03	0.00
6	0.01	0.01	0.00	0.00	0.02	0.01	0.00	2.77	0.48	0.00	0.08	0.00
7	0.00	0.00	0.00	0.00	0.02	0.00	0.20	0.01	0.82	0.01	0.33	0.00
8	0.00	0.00	0.00	0.00	0.02	1.05	0.50	0.01	0.00	0.03	0.08	0.00
9	0.01	0.00	0.18	0.00	0.02	0.13	0.00	0.00	0.28	0.00	0.18	0.00
10	0.00	0.00	0.63	0.00	0.18	0.07	0.00	0.00	0.03	0.00	0.27	0.00
11	0.00	0.00	0.00	0.00	0.02	0.07	0.00	0.00	0.00	0.00	0.08	0.00
12	0.01	0.84	0.00	0.00	0.02	0.00	0.15	0.51	0.00	0.00	0.08	0.00
13	1.50	---	0.00	0.13	0.03	0.03	1.08	0.16	0.00	0.78	0.08	0.67
14	0.00	0.00	0.00	1.67	0.17	0.02	0.00	0.11	0.00	0.53	0.08	0.09
15	0.09	0.00	0.00	0.02	0.02	0.01	0.00	---	0.00	0.00	0.14	0.00
16	0.01	0.00	0.00	0.14	0.02	1.17	0.00	---	0.00	0.00	---	0.00
17	0.01	0.00	0.00	0.04	0.02	0.69	0.00	---	0.00	0.23	---	0.00
18	0.01	0.00	0.00	0.02	0.02	0.00	0.00	---	0.00	1.01	0.00	0.00
19	0.02	0.00	0.03	0.02	0.02	0.03	0.00	0.64	0.03	1.83	0.17	0.00
20	0.00	0.00	0.00	0.09	---	0.04	0.00	0.45	0.01	0.15	0.00	1.32
21	0.00	0.00	0.00	0.15	---	0.00	0.06	---	0.00	---	0.00	---
22	0.06	0.00	0.00	0.02	---	0.32	0.00	---	0.00	---	0.00	---
23	0.03	0.99	0.57	0.04	0.02	1.28	0.00	---	0.04	---	0.29	0.01
24	0.02	0.01	0.00	0.16	---	0.00	0.00	0.03	0.00	---	0.01	0.00
25	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
26	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	---	0.00	0.12
27	0.01	0.04	0.60	0.02	0.15	0.02	0.00	0.00	0.54	---	0.00	0.12
28	0.00	0.64	0.23	0.02	0.88	0.89	0.00	0.00	1.41	---	0.00	0.00
29	0.00	0.00	0.00	0.06	---	0.01	0.08	0.00	0.29	1.69	0.00	0.08
30	0.01	0.00	0.00	0.76	---	0.00	0.10	0.00	0.00	---	0.00	0.01
31	0.00	---	0.00	0.02	---	0.08	---	0.00	---	---	0.00	---
TOTAL	2.07	---	2.34	3.44	---	6.01	3.54	---	5.83	---	---	---



02082770 SWIFT CREEK AT HILLIARDSTON, NC

LOCATION.--Lat 36°06'44", long 77°55'12", Nash County, Hydrologic Unit 03020101, near left bank at downstream side of bridge on Secondary Road 1310, 0.7 mi northeast of Hilliardston, and 2.8 mi downstream of Gideon Swamp.

DRAINAGE AREA.--166 mi^2.

PERIOD OF RECORD.--July 1963 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 129.41 ft above NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, on basis of slope-conveyance of peak flow; maximum gage height for period of record, 21.30 ft, from flood marks. Minimum discharge for current water year also occurred Sept. 8, 9, 10, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1924 reached a stage of 14.5 ft, from information by North Carolina State Highway Commission, discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	158	90	291	126	232	455	308	103	73	93	76	20
2	134	88	218	114	214	344	305	113	75	69	64	18
3	112	85	183	109	183	292	350	108	91	60	66	17
4	99	107	162	105	228	208	269	103	104	53	62	15
5	93	188	143	102	217	176	229	94	110	47	50	15
6	86	173	130	100	201	161	193	227	107	43	42	14
7	e78	187	127	95	180	147	173	360	98	39	36	13
8	e69	156	134	93	154	375	178	223	144	39	e36	12
9	e62	119	135	86	136	630	240	176	286	46	e44	12
10	e59	102	279	90	144	396	226	135	196	47	36	13
11	e58	93	374	86	131	312	177	110	130	38	33	e13
12	e56	100	324	86	118	252	158	98	95	33	e34	15
13	95	367	316	83	108	220	193	169	78	32	35	16
14	261	441	220	538	105	192	264	465	69	32	37	19
15	309	316	174	787	106	177	193	415	62	33	33	19
16	235	247	148	458	107	168	159	327	57	37	29	20
17	192	182	135	360	112	427	143	249	53	49	35	22
18	136	152	128	228	107	544	128	163	47	55	56	22
19	105	131	123	178	96	425	119	146	45	47	44	21
20	94	117	120	162	89	351	113	151	43	73	e50	20
21	92	107	111	170	90	260	110	211	41	63	49	22
22	239	98	103	174	97	212	104	299	39	56	e39	29
23	299	122	112	169	97	239	104	175	e38	96	33	30
24	175	285	167	146	119	304	107	126	40	e95	29	22
25	134	284	177	133	197	261	98	106	41	80	28	18
26	117	235	158	146	171	251	93	98	40	84	27	16
27	105	192	143	138	147	217	91	93	41	62	25	16
28	98	284	121	121	320	431	89	88	65	47	24	15
29	94	381	111	109	---	862	87	83	451	87	23	15
30	91	315	130	205	---	619	90	80	172	283	22	13
31	90	---	142	284	---	476	---	76	---	142	21	---
TOTAL	4,025	5,744	5,339	5,781	4,206	10,384	5,091	5,370	2,931	2,060	1,218	532
MEAN	130	191	172	186	150	335	170	173	97.7	66.5	39.3	17.7
MAX	309	441	374	787	320	862	350	465	451	283	76	30
MIN	56	85	103	83	89	147	87	76	38	32	21	12
CFSM	0.78	1.15	1.04	1.12	0.90	2.02	1.02	1.04	0.59	0.40	0.24	0.11
IN.	0.90	1.29	1.20	1.30	0.94	2.33	1.14	1.20	0.66	0.46	0.27	0.12

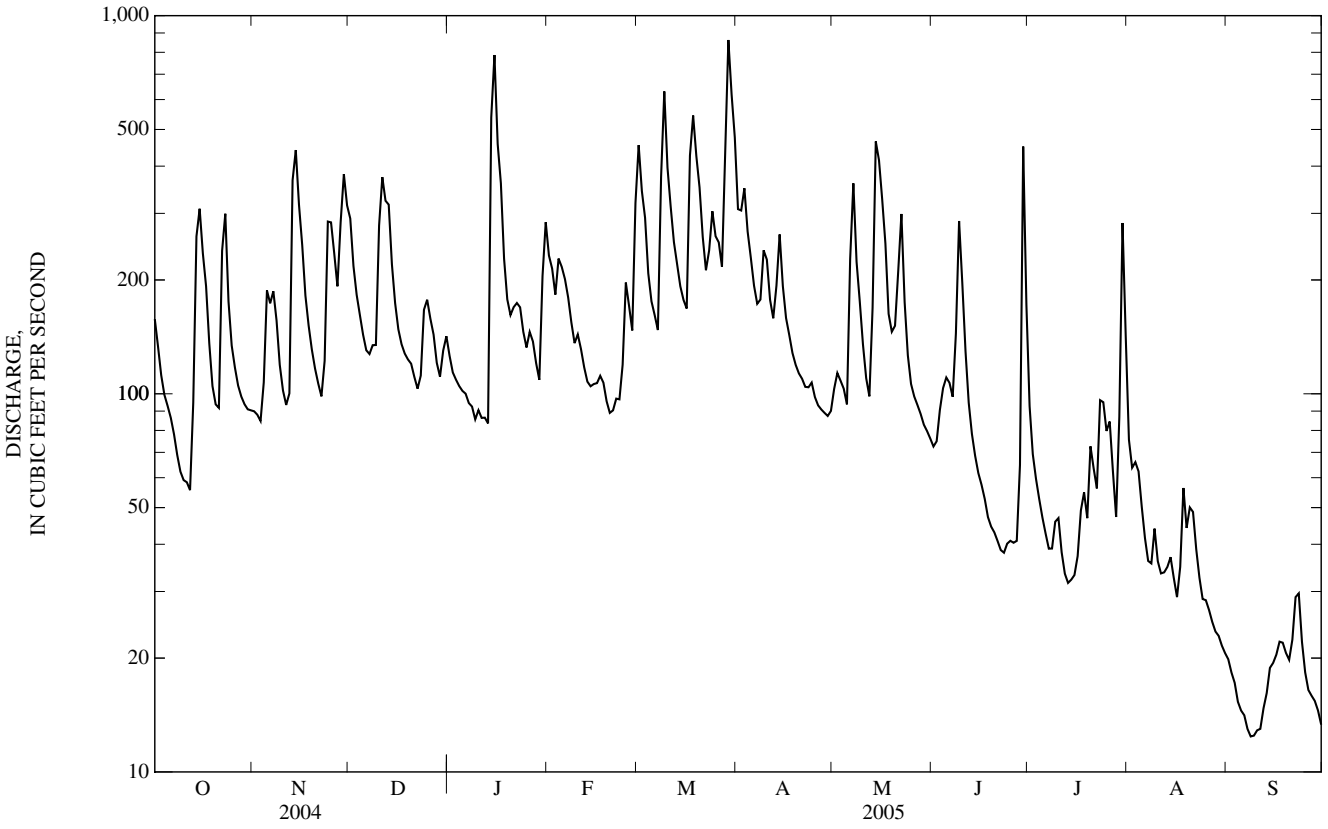
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	94.5	117	156	237	278	305	224	149	122	101	97.7	138
MAX	420	436	401	500	605	718	774	466	468	488	326	2,180
(WY)	(1972)	(1986)	(2003)	(1987)	(1998)	(1998)	(1987)	(1984)	(1979)	(2000)	(1986)	(1999)
MIN	9.65	27.8	37.3	59.5	92.6	77.6	72.9	46.2	6.98	12.0	10.2	4.90
(WY)	(1971)	(1982)	(1966)	(1981)	(1968)	(1988)	(1981)	(2002)	(2002)	(2002)	(1993)	(1968)

02082770 SWIFT CREEK AT HILLIARDSTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	62,508		52,681			
ANNUAL MEAN	171		144		168	
HIGHEST ANNUAL MEAN					308	2003
LOWEST ANNUAL MEAN					51.0	1981
HIGHEST DAILY MEAN	1,360	Sep 2	862	Mar 29	22,000	Sep 17, 1999
LOWEST DAILY MEAN	32	Jun 24	12	Sep 8	0.60	Sep 25, 1968
ANNUAL SEVEN-DAY MINIMUM	40	Jun 20	13	Sep 5	1.1	Sep 21, 1968
MAXIMUM PEAK FLOW			991	Jan 14	23,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			8.54	Jan 14	21.30*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			12*	Sep 7	0.60	Sep 25, 1968
ANNUAL RUNOFF (CFSM)	1.03		0.869		1.01	
ANNUAL RUNOFF (INCHES)	14.01		11.81		13.72	
10 PERCENT EXCEEDS	312		304		350	
50 PERCENT EXCEEDS	126		109		94	
90 PERCENT EXCEEDS	57		29		24	

* See REMARKS.
e Estimated.



0208281175 SWIFT CREEK AT NC 97 NEAR LEGGETT, NC

LOCATION.--Lat 35°58'49", long 77°35'40", Edgecombe County, Hydrologic Unit 03020101, at bridge on NC 97, approximately 1 mi west of Highway 42 and approximately 0.5 mi north of U.S. Highway 64.

DRAINAGE AREA.--263 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--January 2003 to current year.

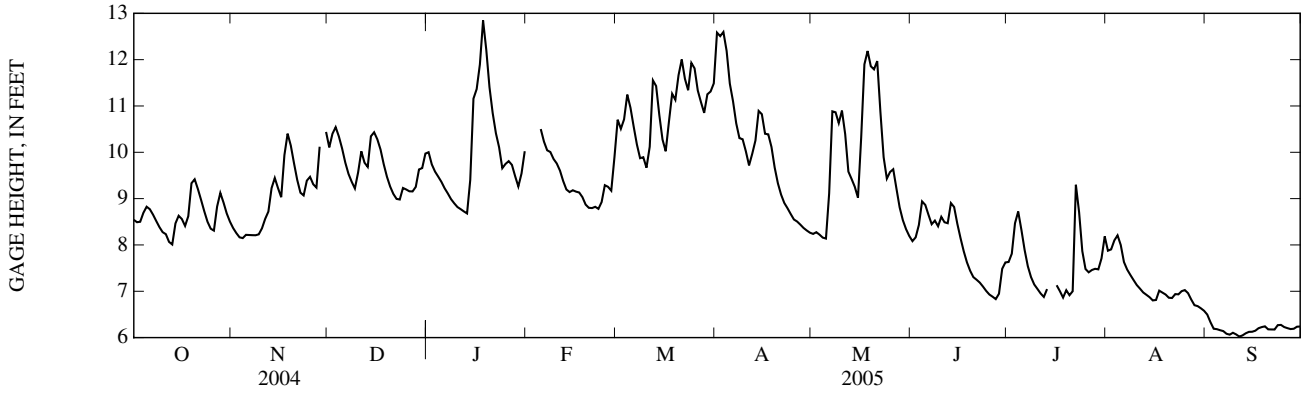
GAGE.--Water-stage recorder. Datum of gage is 35.00 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 14.49 ft, Apr. 11, 12, 2003; minimum gage height, 6.00 ft, Sept. 11, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.94 ft, Jan. 18; minimum gage height, 6.00, Sept. 11.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.54	8.36	10.11	10.00	---	10.70	12.58	8.24	8.08	7.63	7.88	6.50
2	8.49	8.26	10.40	9.74	---	10.51	12.51	8.28	8.16	7.81	7.90	6.33
3	8.50	8.16	10.54	9.58	---	10.71	12.60	8.22	8.43	8.47	8.10	6.19
4	8.69	8.15	10.34	9.47	---	11.24	12.19	8.16	8.94	8.72	8.21	6.18
5	8.83	8.22	10.08	9.36	10.50	10.96	11.48	8.14	8.86	8.32	8.00	6.16
6	8.77	8.21	9.78	9.22	10.23	10.55	11.10	9.11	8.65	7.89	7.63	6.14
7	8.65	8.21	9.53	9.11	10.04	10.17	10.62	10.88	8.45	7.54	7.47	6.08
8	8.52	8.21	9.36	8.99	10.01	9.87	10.31	10.86	8.53	7.31	7.35	6.06
9	8.39	8.23	9.22	8.90	9.85	9.89	10.28	10.63	8.40	7.15	7.24	6.10
10	8.28	8.36	9.56	8.82	9.76	9.67	10.02	10.90	8.61	7.05	7.13	6.07
11	8.23	8.56	10.02	8.77	9.60	10.12	9.72	10.39	8.49	6.95	7.06	6.02
12	8.07	8.72	9.78	8.72	9.38	11.55	9.97	9.58	8.47	6.88	6.98	6.05
13	8.01	9.23	9.68	8.68	9.20	11.43	10.26	9.42	8.90	7.05	6.92	6.09
14	8.46	9.45	10.35	9.40	9.14	10.80	10.89	9.26	8.82	---	6.87	6.12
15	8.63	9.23	10.43	11.16	9.18	10.28	10.82	9.02	8.46	---	6.80	6.13
16	8.56	9.03	10.28	11.37	9.15	10.02	10.40	10.32	8.15	7.13	6.81	6.15
17	8.41	9.94	10.06	11.90	9.13	10.66	10.39	11.90	7.86	7.00	7.01	6.20
18	8.62	10.40	9.74	12.85	9.03	11.26	10.11	12.19	7.62	6.86	6.97	6.23
19	9.33	10.14	9.47	12.21	8.87	11.13	9.67	11.86	7.44	7.02	6.93	6.24
20	9.42	9.76	9.26	11.41	8.80	11.67	9.33	11.79	7.31	6.91	6.86	6.18
21	9.21	9.41	9.10	10.85	8.80	12.00	9.09	11.97	7.25	7.00	6.85	6.18
22	8.97	9.13	8.99	10.41	8.82	11.58	8.91	10.87	7.19	9.30	6.94	6.17
23	8.73	9.07	8.98	10.11	8.78	11.34	8.79	9.89	7.10	8.70	6.93	6.27
24	8.50	9.39	9.23	9.66	8.93	11.93	8.67	9.43	7.01	7.87	7.00	6.27
25	8.35	9.47	9.20	9.75	9.29	11.81	8.55	9.57	6.93	7.48	7.03	6.23
26	8.31	9.31	9.16	9.81	9.25	11.33	8.51	9.63	6.88	7.41	6.96	6.20
27	8.83	9.24	9.15	9.73	9.17	11.08	8.44	9.22	6.83	7.46	6.82	6.18
28	9.12	10.12	9.25	9.49	9.90	10.85	8.37	8.81	6.95	7.49	6.70	6.19
29	8.92	---	9.63	9.26	---	11.25	8.31	8.53	7.49	7.47	6.68	6.24
30	8.68	10.44	9.66	9.54	---	11.31	8.26	8.34	7.62	7.71	6.63	6.24
31	8.50	---	9.97	10.02	---	11.49	---	8.19	---	8.18	6.58	---
MEAN	8.63	---	9.69	9.94	---	10.94	10.04	9.79	7.93	---	7.14	6.18
MAX	9.42	---	10.54	12.85	---	12.00	12.60	12.19	8.94	---	8.21	6.50
MIN	8.01	---	8.98	8.68	---	9.67	8.26	8.14	6.83	---	6.58	6.02



0208281175 SWIFT CREEK AT NC 97 NEAR LEGGETT, NC—Continued

PRECIPITATION RECORDS

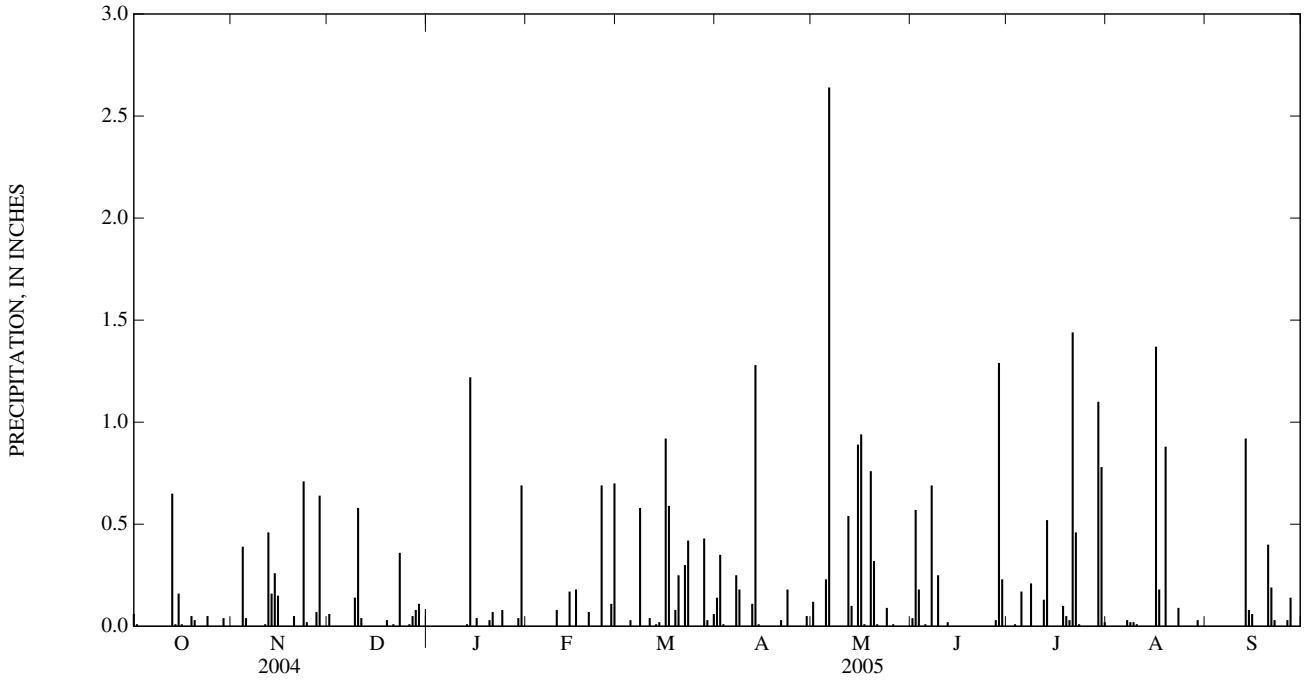
PERIOD OF RECORD.--November 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.00	0.06	0.00	---	0.00	0.14	0.12	0.04	0.00	0.00	0.00
2	0.01	0.00	0.00	0.00	---	0.00	0.35	0.00	0.57	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	0.00	0.01	0.00	0.18	0.01	0.00	0.00
4	0.00	0.39	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.04	0.00	0.00	0.00	0.03	0.00	0.23	0.01	0.17	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.64	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.69	0.00	0.03	0.00
8	0.00	0.00	0.00	0.00	0.00	0.58	0.18	0.00	0.00	0.21	0.02	0.00
9	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.02	0.00
10	0.00	0.00	0.58	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00
11	0.00	0.01	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.46	0.00	0.00	0.00	0.00	0.11	0.54	0.02	0.13	0.00	0.00
13	0.65	0.16	0.00	0.01	0.00	0.01	1.28	0.10	0.00	0.52	0.00	0.92
14	0.01	0.26	0.00	1.22	0.17	0.02	0.01	0.00	0.00	---	0.00	0.08
15	0.16	0.15	0.00	0.00	0.00	0.00	0.00	0.89	0.00	---	0.00	0.06
16	0.01	0.00	0.00	0.04	0.18	0.92	0.00	0.94	0.00	0.00	1.37	0.00
17	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.01	0.00	0.00	0.18	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
19	0.05	0.00	0.03	0.00	0.00	0.08	0.00	0.76	0.00	0.05	0.88	0.00
20	0.03	0.05	0.00	0.03	0.07	0.25	0.00	0.32	0.00	0.03	0.00	0.40
21	0.00	0.00	0.01	0.07	0.00	0.00	0.03	0.01	0.00	1.44	0.00	0.19
22	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.46	0.00	0.03
23	0.00	0.71	0.36	0.00	0.00	0.42	0.18	0.00	0.00	0.01	0.09	0.00
24	0.05	0.02	0.00	0.08	0.69	0.00	0.00	0.09	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
27	0.00	0.07	0.05	0.00	0.11	0.00	0.00	0.00	0.03	0.00	0.00	0.14
28	0.00	0.64	0.08	0.00	0.70	0.43	0.00	0.00	1.29	0.00	0.00	0.00
29	0.04	---	0.11	0.04	---	0.03	0.05	0.00	0.23	1.10	0.03	0.00
30	0.00	0.00	0.00	0.69	---	0.00	0.00	0.00	0.00	0.78	0.00	0.00
31	0.00	---	0.00	0.00	---	0.06	---	0.00	---	0.02	0.00	---
TOTAL	1.07	---	1.47	2.18	---	3.76	2.59	6.66	3.31	---	2.63	1.85



02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC

LOCATION.--Lat 36°11'00", long 77°52'34", Halifax County, Hydrologic Unit 03020102, on right bank 8 ft downstream of bridge on Secondary Road 1338, 1.1 mi west of White Oak, 1.8 mi upstream from Powells Creek, 4.3 mi upstream from mouth, and 12 mi west of Enfield.

DRAINAGE AREA.--177 mi^2.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.--WSP 1723: 1960(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 115.44 ft above NAVD of 1988. Feb. 14, 1962, to Apr. 23, 1979, auxiliary nonrecording gage 3.6 mi downstream. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 6,900 ft^3/s on basis of slope-conveyance study of peak flow. Maximum gage height for period of record, from flood marks. Minimum discharge for current water year also occurred Sept. 11.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1959 reached a stage of 19.3 ft, from flood marks; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	97	211	168	290	689	245	105	52	29	59	8.1
2	99	90	189	158	215	489	283	125	57	25	74	7.5
3	97	86	169	150	196	271	439	109	103	22	52	6.9
4	114	115	151	146	319	208	318	90	127	20	40	6.2
5	101	333	138	145	326	186	226	79	105	18	33	5.4
6	89	284	130	142	247	178	193	173	84	17	28	4.9
7	77	180	145	139	205	168	177	403	70	15	25	4.4
8	68	137	174	134	187	408	200	256	622	16	25	4.2
9	62	116	156	134	178	795	236	155	620	18	24	4.1
10	59	101	401	128	176	534	201	112	172	22	23	4.6
11	57	94	830	124	173	286	171	92	111	16	23	4.0
12	53	109	679	122	157	286	153	81	84	14	24	4.3
13	79	728	337	124	147	280	167	127	68	13	28	4.2
14	362	991	247	563	142	219	212	141	58	33	21	5.2
15	402	441	203	1,080	145	194	186	101	50	16	18	6.0
16	282	228	180	653	147	184	153	169	43	14	17	6.9
17	167	183	170	306	146	509	134	103	37	13	285	6.4
18	120	160	167	228	138	755	125	78	31	11	68	6.7
19	99	147	164	187	127	543	121	109	29	90	38	6.7
20	479	138	162	176	121	326	116	423	28	313	29	6.3
21	1,780	132	153	197	124	265	111	289	26	189	24	14
22	995	127	149	207	134	222	103	163	24	161	21	9.1
23	263	151	164	195	132	245	101	112	23	76	18	11
24	186	346	236	172	151	338	116	88	21	71	17	7.8
25	161	331	244	170	251	285	104	112	19	46	15	6.3
26	143	227	193	176	207	222	94	142	18	35	14	5.3
27	129	171	180	182	166	198	91	107	17	29	13	5.4
28	118	333	162	163	374	425	88	84	18	25	11	5.1
29	110	466	158	139	---	997	83	71	22	52	10	4.9
30	105	308	180	254	---	714	90	62	29	131	9.6	4.9
31	102	---	184	402	---	313	---	56	---	64	8.8	---
TOTAL	7,076	7,350	7,006	7,264	5,321	11,732	5,037	4,317	2,768	1,614	1,095.4	186.8
MEAN	228	245	226	234	190	378	168	139	92.3	52.1	35.3	6.23
MAX	1,780	991	830	1,080	374	997	439	423	622	313	285	14
MIN	53	86	130	122	121	168	83	56	17	11	8.8	4.0
CFSM	1.29	1.38	1.28	1.32	1.07	2.14	0.95	0.79	0.52	0.29	0.20	0.04
IN.	1.49	1.54	1.47	1.53	1.12	2.47	1.06	0.91	0.58	0.34	0.23	0.04

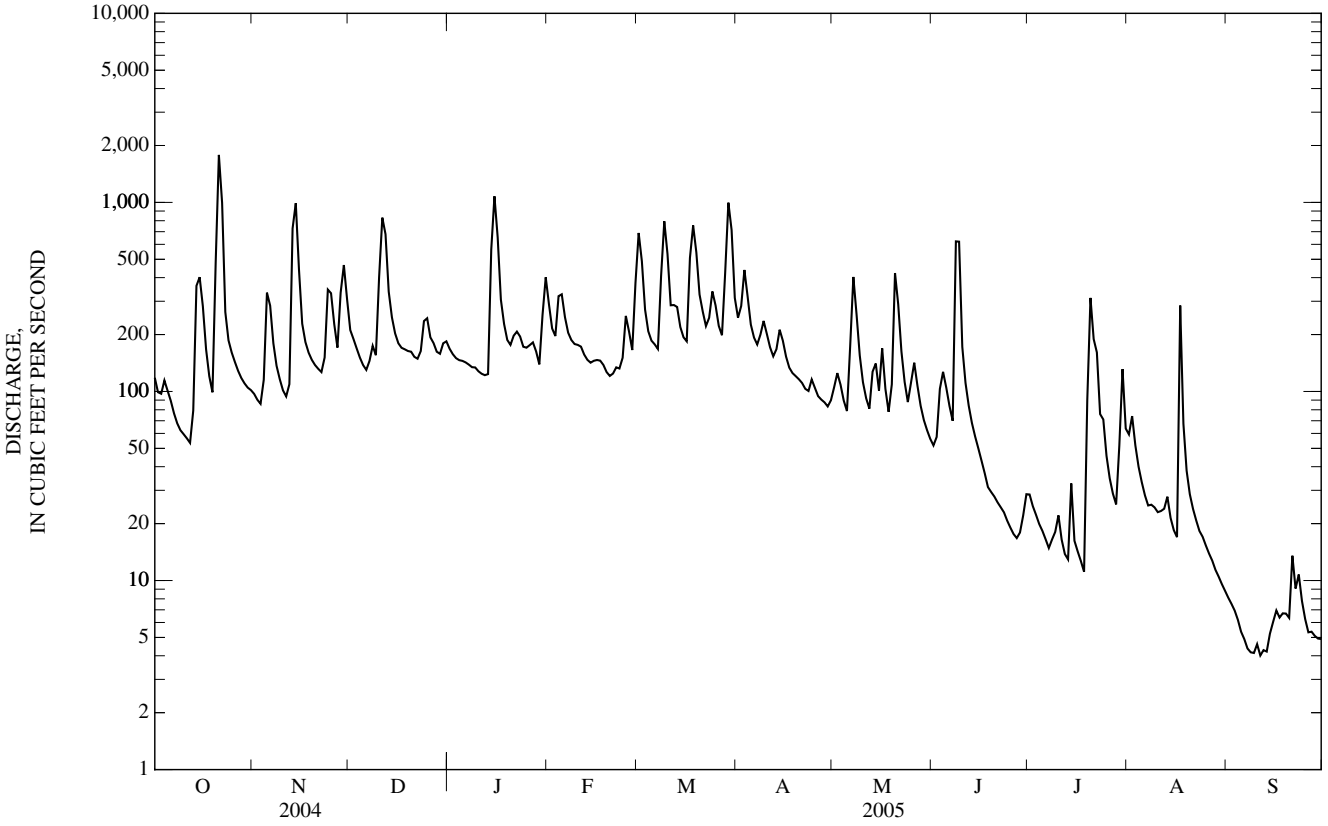
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	104	122	160	250	321	336	232	138	99.6	86.6	83.8	110
MAX	982	860	482	570	742	873	720	550	300	602	330	1,947
(WY)	(1973)	(1986)	(1973)	(1962)	(1984)	(1998)	(1987)	(1984)	(1965)	(1975)	(1967)	(1999)
MIN	3.78	10.2	23.6	37.6	83.4	83.0	56.8	34.2	5.24	2.42	4.21	2.34
(WY)	(1971)	(1999)	(2002)	(1981)	(1991)	(1981)	(1967)	(2002)	(2002)	(2002)	(1993)	(1980)

02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	65,290		60,767.2			
ANNUAL MEAN	178		166		169	
HIGHEST ANNUAL MEAN					327	1973
LOWEST ANNUAL MEAN					47.2	1981
HIGHEST DAILY MEAN	1,780	Oct 21	1,780	Oct 21	20,000	Sep 17, 1999
LOWEST DAILY MEAN	15	Jun 23	4.0	Sep 11	0.51	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Jul 19	4.3	Sep 7	0.55	Aug 9, 2002
MAXIMUM PEAK FLOW			1,940	Oct 21	31,000*	Sep 16, 1999
MAXIMUM PEAK STAGE			13.39	Oct 21	30.80*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			3.8*	Sep 10	0.50	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.01		0.941		0.957	
ANNUAL RUNOFF (INCHES)	13.72		12.77		13.01	
10 PERCENT EXCEEDS	362		335		357	
50 PERCENT EXCEEDS	129		128		80	
90 PERCENT EXCEEDS	29		13		15	

* See REMARKS.



02083000 FISHING CREEK NEAR ENFIELD, NC

LOCATION.--Lat 36°09'02", long 77°41'35", Edgecombe County, Hydrologic Unit 03020102, on right bank 15 ft downstream of bridge on U.S. Highway 301, 2,000 ft downstream of Seaboard Coast Line Railroad bridge, 2 mi southwest of Enfield, 4.8 mi downstream of Rocky Creek, and 40 mi upstream from mouth.

DRAINAGE AREA.--526 mi^2.

PERIOD OF RECORD.--October 1923 to current year. Figures of daily discharge below 250 ft^3/s, Oct 1, 1923, to July 3, 1924; below 350 ft^3/s, May 30, 1925, to May 31, 1926; below 150 ft^3/s, June 1 to Nov. 16, 1926; and below 100 ft^3/s, Nov. 17, 1926, to Sept. 30, 1928; published in WSP 622, 642, and 662 are unreliable and should not be used. Gage-height records collected at site 2,000 ft upstream at different datum July 1, 1910, to Apr. 30, 1914, and at present site and datum since May 1, 1914, are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 872: 1935(M). WSP 1333: 1928(M), 1932-33, 1935. WDR NC-81-1: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 73.23 ft above NAVD of 1988. Prior to Oct. 28, 1932, nonrecording gage and Oct. 29, 1932, to Sept. 30, 1992, at same site at datum 76.26 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records fair. Slight diurnal fluctuation and some regulation at low flow caused by upstream mills.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Apr. 19, 1910, reached a stage of 20.1 ft, at datum 76.26 ft (from floodmarks of Seaboard Coast Line Railroad Co.) at site 2,000 ft upstream. Flood of July 24, 1919, reached a stage of 19.6 ft at datum 76.26 ft; discharge, 20,300 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

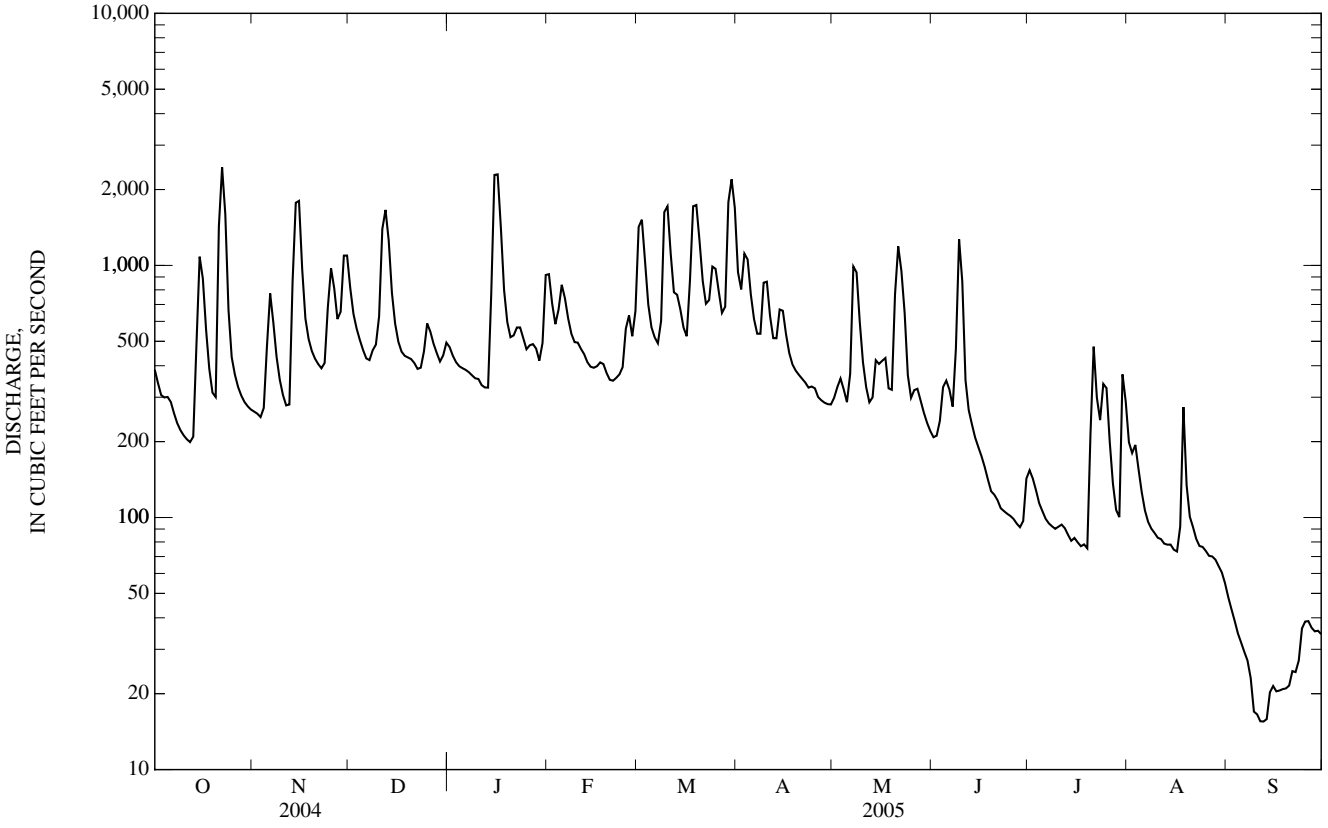
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	385	263	813	474	923	1,420	940	299	208	154	199	48
2	341	258	642	439	707	1,520	803	329	211	143	180	43
3	306	250	561	413	585	1,040	1,110	356	242	128	194	39
4	299	272	506	398	668	700	1,060	322	329	114	155	35
5	301	479	461	391	838	568	767	287	349	106	126	32
6	287	774	428	385	740	518	613	371	321	99	107	29
7	259	592	421	377	616	491	536	990	275	95	96	27
8	237	434	461	366	536	602	536	939	467	92	90	23
9	222	352	485	357	496	1,630	854	597	1,270	90	87	17
10	212	306	628	354	494	1,720	862	413	863	92	83	17
11	204	278	1,390	335	466	1,110	630	329	350	94	82	16
12	199	281	1,660	328	444	782	515	286	267	91	79	16
13	209	863	1,250	327	413	765	514	300	234	85	78	16
14	485	1,770	779	773	396	670	669	421	208	81	78	20
15	1,080	1,800	588	2,290	393	567	661	407	190	83	75	21
16	886	964	498	2,300	398	524	533	418	175	80	73	20
17	556	616	455	1,410	412	869	449	429	158	77	92	21
18	389	511	438	798	406	1,720	405	325	141	78	274	21
19	313	458	431	596	374	1,740	383	321	127	75	134	21
20	301	427	425	519	352	1,250	368	767	123	214	101	22
21	1,430	406	410	528	349	867	355	1,190	117	476	92	25
22	2,450	391	389	567	358	705	343	950	109	299	82	24
23	1,590	410	393	568	370	729	328	648	106	243	77	27
24	665	682	456	514	395	990	331	367	104	339	76	36
25	432	975	589	465	561	969	325	298	101	326	74	39
26	369	810	546	482	633	788	301	320	99	201	70	39
27	329	613	489	487	524	648	292	324	95	137	70	37
28	304	655	449	468	660	686	285	291	92	107	68	35
29	287	1,090	416	419	---	1,780	282	260	97	100	64	36
30	276	1,090	440	493	---	2,200	281	238	143	369	60	34
31	268	---	494	916	---	1,690	---	221	---	288	55	---
TOTAL	15,871	19,070	18,391	19,537	14,507	32,258	16,331	14,013	7,571	4,956	3,171	836
MEAN	512	636	593	630	518	1,041	544	452	252	160	102	27.9
MAX	2,450	1,800	1,660	2,300	923	2,200	1,110	1,190	1,270	476	274	48
MIN	199	250	389	327	349	491	281	221	92	75	55	16
CFSM	0.97	1.21	1.13	1.20	0.98	1.98	1.03	0.86	0.48	0.30	0.19	0.05
IN.	1.12	1.35	1.30	1.38	1.03	2.28	1.15	0.99	0.54	0.35	0.22	0.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	273	335	485	708	857	895	694	433	315	297	325	335
MAX	2,035	1,948	1,391	2,303	2,145	2,158	2,049	2,174	1,255	1,483	1,828	5,122
(WY)	(1930)	(1986)	(1935)	(1936)	(1960)	(1989)	(1987)	(1958)	(1938)	(1975)	(1940)	(1999)
MIN	14.0	26.0	46.0	60.4	198	248	170	103	27.0	38.0	26.8	14.2
(WY)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(1967)	(2002)	(2002)	(2002)	(1993)	(1980)

02083000 FISHING CREEK NEAR ENFIELD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	183,739		166,512			
ANNUAL MEAN	502		456		494	
HIGHEST ANNUAL MEAN					871	1984
LOWEST ANNUAL MEAN					148	1981
HIGHEST DAILY MEAN	3,260	Sep 2	2,450	Oct 22	29,200	Sep 18, 1999
LOWEST DAILY MEAN	63	Jun 25	16	Sep 11	6.9	Oct 5, 1968
ANNUAL SEVEN-DAY MINIMUM	77	Jun 19	18	Sep 9	8.1	Sep 30, 1968
MAXIMUM PEAK FLOW			2,590	Oct 22	30,100	Sep 18, 1999
MAXIMUM PEAK STAGE			14.19	Oct 22	21.65	Sep 18, 1999
INSTANTANEOUS LOW FLOW			13	Sep 12	13	Sep 12, 2005
ANNUAL RUNOFF (CFSM)	0.954		0.867		0.940	
ANNUAL RUNOFF (INCHES)	12.99		11.78		12.77	
10 PERCENT EXCEEDS	1,000		944		1,080	
50 PERCENT EXCEEDS	388		369		274	
90 PERCENT EXCEEDS	117		72		68	



0208331077 FISHING CREEK AT NC 97 NEAR LEGGETT, NC

LOCATION.--Lat 36°00'30", long 77°31'33", Edgecombe County, Hydrologic Unit 03020102, at bridge on NC 97, approximately 2 mi northeast of Leggett.

DRAINAGE AREA.--758 mi^2.

PERIOD OF RECORD.--January 2003 to current year.

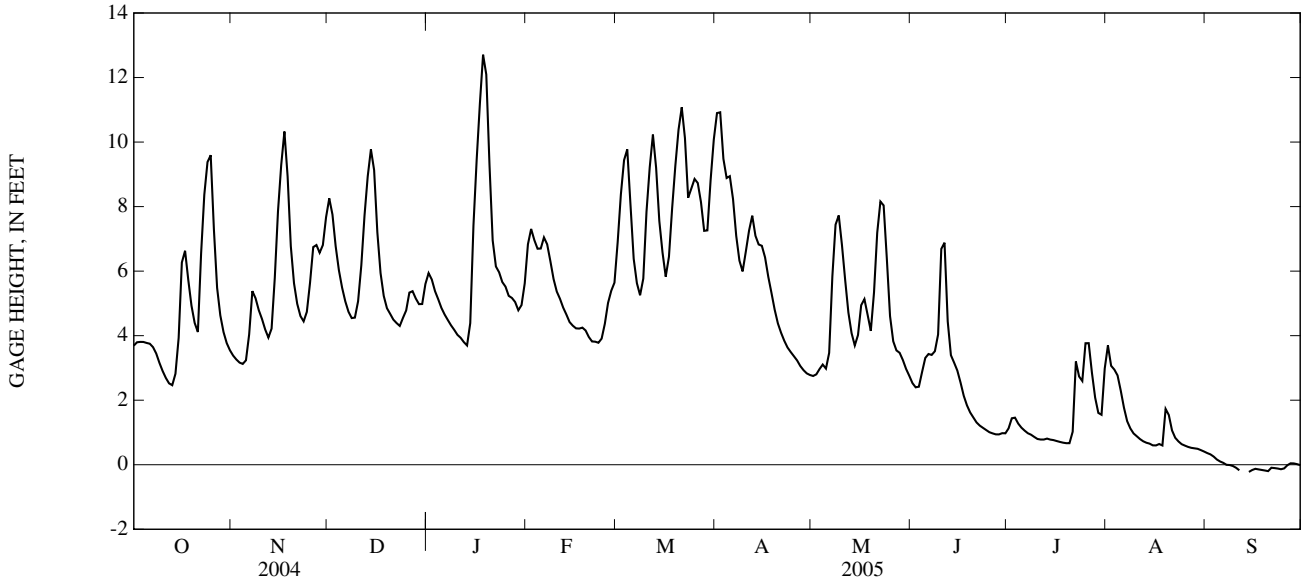
GAGE.--Water-stage recorder. Datum of gage is 30.00 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 18.98 ft, Sept. 23; minimum gage height, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.91 ft, Jan. 18; minimum gage height, not determined.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.69	3.38	8.25	5.94	6.83	6.90	10.90	2.75	2.53	1.13	3.70	0.36
2	3.80	3.26	7.75	5.74	7.31	8.37	10.92	2.80	2.40	1.44	3.07	0.32
3	3.81	3.17	6.77	5.38	6.96	9.44	9.48	2.97	2.42	1.46	2.95	0.25
4	3.80	3.12	6.03	5.13	6.69	9.77	8.89	3.10	2.87	1.28	2.77	0.16
5	3.77	3.24	5.49	4.86	6.70	8.07	8.94	2.98	3.31	1.15	2.30	0.10
6	3.75	4.04	5.06	4.66	7.05	6.38	8.23	3.46	3.43	1.06	1.77	0.06
7	3.64	5.38	4.74	4.48	6.83	5.63	7.09	5.84	3.40	0.98	1.35	0.00
8	3.45	5.16	4.55	4.32	6.31	5.25	6.33	7.44	3.52	0.93	1.12	-0.01
9	3.16	4.79	4.56	4.18	5.75	5.77	5.99	7.73	4.04	0.86	0.97	-0.04
10	2.90	4.52	5.07	4.03	5.37	7.84	6.61	6.81	6.69	0.80	0.88	-0.10
11	2.69	4.19	6.18	3.93	5.14	9.21	7.25	5.72	6.88	0.78	0.80	-0.17
12	2.52	3.94	7.72	3.80	4.87	10.23	7.72	4.72	4.44	0.78	0.73	---
13	2.46	4.22	8.94	3.70	4.65	9.20	7.10	4.08	3.39	0.81	0.68	---
14	2.82	5.79	9.77	4.39	4.42	7.55	6.83	3.70	3.16	0.78	0.65	-0.22
15	3.93	7.85	9.13	7.41	4.31	6.58	6.79	4.02	2.92	0.76	0.60	-0.16
16	6.27	9.29	7.20	9.45	4.23	5.83	6.43	4.94	2.55	0.73	0.60	-0.13
17	6.63	10.33	5.94	11.19	4.22	6.44	5.83	5.13	2.14	0.71	0.64	-0.14
18	5.73	8.93	5.23	12.71	4.25	7.95	5.32	4.65	1.84	0.68	0.60	-0.16
19	4.93	6.77	4.85	12.09	4.16	9.27	4.80	4.15	1.62	0.67	1.73	-0.18
20	4.39	5.62	4.68	9.31	3.96	10.39	4.38	5.34	1.46	0.67	1.54	-0.20
21	4.11	4.99	4.50	6.95	3.82	11.08	4.09	7.19	1.31	1.02	1.06	-0.09
22	6.55	4.61	4.39	6.14	3.81	10.12	3.84	8.16	1.21	3.20	0.83	-0.10
23	8.37	4.44	4.30	5.96	3.78	8.27	3.63	8.04	1.14	2.73	0.72	-0.12
24	9.38	4.74	4.55	5.66	3.91	8.56	3.49	6.38	1.08	2.60	0.64	-0.14
25	9.59	5.64	4.78	5.52	4.37	8.86	3.36	4.61	1.01	3.77	0.59	-0.11
26	7.29	6.75	5.33	5.23	5.01	8.73	3.23	3.83	0.97	3.77	0.55	-0.02
27	5.48	6.81	5.38	5.17	5.39	8.14	3.06	3.54	0.94	2.86	0.52	0.04
28	4.63	6.57	5.15	5.04	5.64	7.25	2.93	3.47	0.94	2.08	0.51	0.04
29	4.11	6.81	4.98	4.79	---	7.26	2.83	3.24	0.98	1.61	0.49	0.02
30	3.77	7.67	4.98	4.95	---	8.82	2.78	2.97	0.97	1.55	0.45	-0.01
31	3.55	---	5.60	5.62	---	10.08	---	2.76	---	2.98	0.41	---
MEAN	4.68	5.53	5.87	6.06	5.21	8.17	5.97	4.73	2.52	1.50	1.17	---
MAX	9.59	10.33	9.77	12.71	7.31	11.08	10.92	8.16	6.88	3.77	3.70	---
MIN	2.46	3.12	4.30	3.70	3.78	5.25	2.78	2.75	0.94	0.67	0.41	---



02083500 TAR RIVER AT TARBORO, NC

LOCATION.--Lat 35°53'40", long 77°31'59", Edgecombe County, Hydrologic Unit 03020103, on right bank 50 ft downstream of bridge on U.S. Highway 64 in Tarboro, 6.5 mi downstream of Fishing Creek, and 49.2 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,183 mi^2.

PERIOD OF RECORD.--July 1896 to December 1900, October 1931 to current year. Gage-height records at various datums collected at same site since 1905 are contained in reports of National Weather Service, NOAA, U.S. Department of Commerce.

REVISED RECORDS.--WSP 1273: 1899-1900, 1933. WSP 1503: 1932. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 9.32 ft above NAVD of 1988. July 1896 to December 1900, nonrecording gage at Seaboard Coast Line Railroad bridge 600 ft downstream at different datum; Oct. 1 to Dec. 8, 1931, nonrecording gage at site 100 ft upstream at present datum. Telephone and satellite telemetry at station.

REMARKS.--Records good. Some diurnal fluctuation at low flow caused by mills upstream from station. Maximum gage height for period of record, from floodmarks. Town of Tarboro diverted 3.9 ft^3/s for municipal water supply. Minimum discharge for period of record also occurred Oct. 22, 1933, and Oct. 6, 1968.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 27, 1919, reached a stage of 34.0 ft, present datum, from flood marks; discharge, 52,800 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,240	917	3,940	2,350	2,770	3,190	6,500	1,050	863	674	985	146
2	1,380	863	3,570	2,350	3,150	4,010	6,320	1,110	803	639	978	138
3	1,360	811	2,920	2,190	3,110	4,930	5,780	1,130	907	667	913	130
4	1,290	797	2,480	2,040	2,970	5,150	5,440	1,180	1,230	724	846	153
5	1,240	819	2,170	1,920	2,980	4,080	5,270	1,220	1,410	650	746	149
6	1,190	889	1,930	1,780	3,080	3,190	4,730	1,460	1,360	544	621	140
7	1,090	1,290	1,760	1,680	3,110	2,590	3,690	3,480	1,280	469	484	134
8	1,020	1,640	1,640	1,570	2,810	2,300	3,020	4,190	1,390	421	429	130
9	898	1,450	1,570	1,480	2,490	2,450	2,860	4,210	1,460	375	375	126
10	851	1,280	1,670	1,410	2,270	3,170	3,300	3,610	2,440	344	328	121
11	761	1,160	2,210	1,350	2,110	4,140	3,630	2,720	2,630	319	308	117
12	709	1,100	2,970	1,290	1,950	4,360	3,410	2,040	1,900	306	304	113
13	687	1,290	4,100	1,250	1,820	4,100	3,250	1,730	1,510	327	344	123
14	813	1,770	4,880	1,570	1,700	3,410	3,840	1,630	1,360	396	458	132
15	1,300	2,930	4,290	3,700	1,620	2,840	4,080	1,950	1,170	379	384	132
16	2,000	3,590	3,020	5,360	1,590	2,480	3,740	2,380	971	373	336	121
17	2,350	3,460	2,390	6,200	1,550	3,120	3,140	3,200	832	308	433	118
18	2,040	3,210	1,990	7,120	1,530	4,550	2,590	3,360	694	283	457	118
19	1,690	2,540	1,780	7,070	1,480	5,250	2,190	2,960	567	280	355	118
20	1,510	2,010	1,640	5,160	1,410	6,060	1,890	2,680	511	281	415	116
21	1,270	1,710	1,550	3,510	1,340	6,400	1,710	2,850	473	361	341	137
22	1,660	1,520	1,480	2,800	1,300	5,830	1,600	3,040	431	1,090	294	166
23	2,640	1,410	1,450	2,570	1,280	4,820	1,510	2,900	400	1,350	276	127
24	2,670	1,600	1,510	2,420	1,340	4,650	1,430	2,470	380	1,080	265	117
25	2,620	1,960	1,640	2,250	1,650	5,000	1,350	1,890	367	952	253	115
26	2,260	2,440	1,810	2,110	1,930	5,020	1,280	1,610	355	1,040	234	116
27	1,650	2,720	1,980	2,020	2,150	4,720	1,250	1,440	346	939	217	120
28	1,390	2,660	1,920	1,920	2,380	4,020	1,190	1,290	394	718	187	118
29	1,240	2,850	1,820	1,810	---	3,840	1,100	1,190	647	611	181	111
30	1,080	3,330	1,820	1,820	---	4,990	1,090	1,070	833	556	167	106
31	981	---	2,070	2,310	---	5,790	---	959	---	661	157	---
TOTAL	44,880	56,016	71,970	84,380	58,870	130,450	92,180	67,999	29,914	18,117	13,071	3,808
MEAN	1,448	1,867	2,322	2,722	2,102	4,208	3,073	2,194	997	584	422	127
MAX	2,670	3,590	4,880	7,120	3,150	6,400	6,500	4,210	2,630	1,350	985	166
MIN	687	797	1,450	1,250	1,280	2,300	1,090	959	346	280	157	106
CFSM	0.66	0.86	1.06	1.25	0.96	1.93	1.41	1.00	0.46	0.27	0.19	0.06
IN.	0.76	0.95	1.23	1.44	1.00	2.22	1.57	1.16	0.51	0.31	0.22	0.06

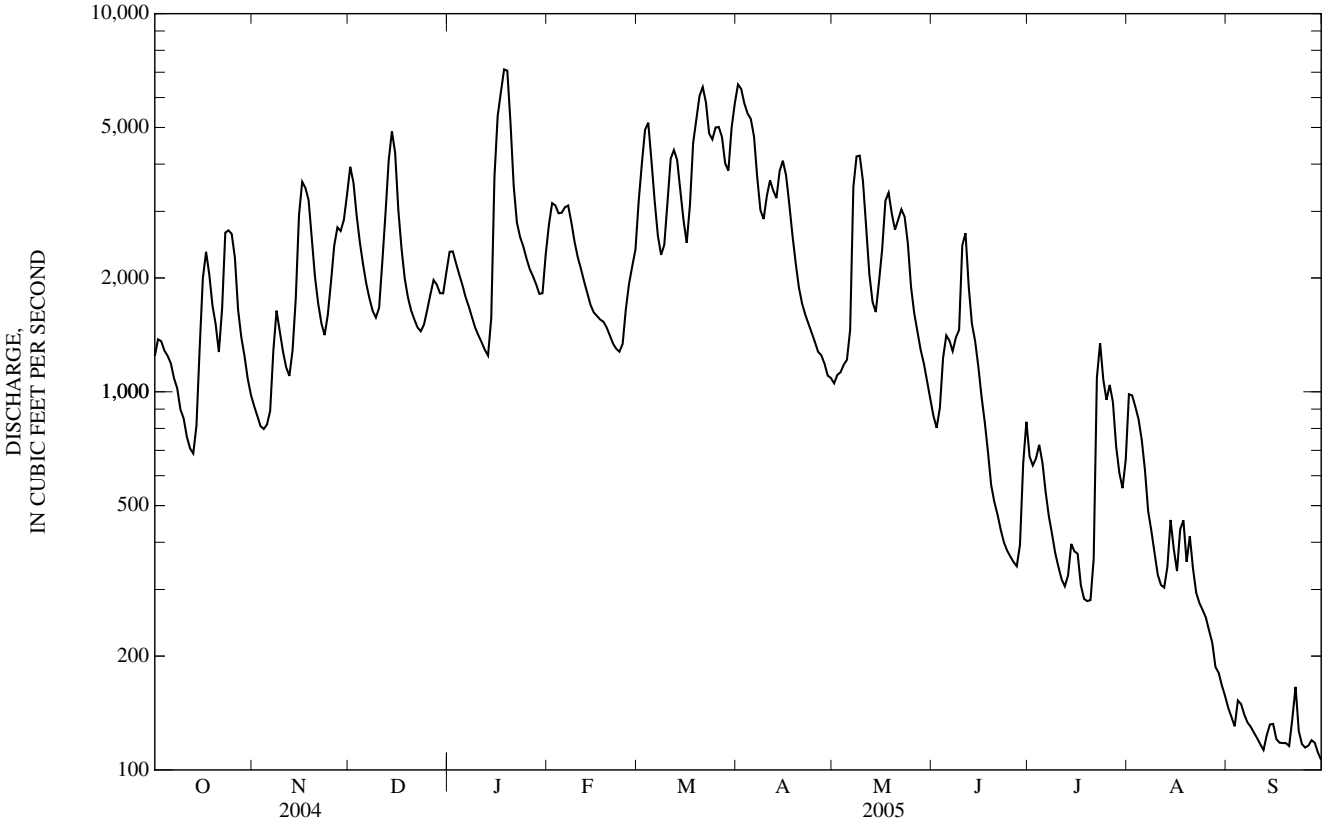
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2005,@ BY WATER YEAR (WY)

MEAN	1,151	1,296	2,042	3,271	4,237	4,401	3,238	1,843	1,345	1,274	1,446	1,624
MAX	8,896	5,049	6,195	10,020	12,920	11,050	8,553	8,411	4,873	6,291	8,260	26,760
(WY)	(2000)	(1948)	(1949)	(1936)	(1899)	(1989)	(1987)	(1958)	(1979)	(1975)	(1940)	(1999)
MIN	56.7	115	191	253	497	1,116	688	344	146	165	180	63.8
(WY)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(1995)	(2002)	(2002)	(2002)	(1993)	(1968)

02083500 TAR RIVER AT TARBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1896 - 2005[@]	
ANNUAL TOTAL	763,114		671,655			
ANNUAL MEAN	2,085		1,840		2,263	
HIGHEST ANNUAL MEAN					4,199	2003
LOWEST ANNUAL MEAN					594	1981
HIGHEST DAILY MEAN	11,100	Aug 19	7,120	Jan 18	70,500	Sep 19, 1999
LOWEST DAILY MEAN	365	Jun 22	106	Sep 30	36	Oct 17, 1933
ANNUAL SEVEN-DAY MINIMUM	401	Jun 18	115	Sep 24	40	Sep 26, 1932
MAXIMUM PEAK FLOW			7,410	Jan 19	70,600*	Sep 19, 1999
MAXIMUM PEAK STAGE			15.44	Jan 19	41.51*	Sep 19, 1999
INSTANTANEOUS LOW FLOW			104	Sep 30	36*	Oct 17, 1933
ANNUAL RUNOFF (CFSM)	0.955		0.843		1.04	
ANNUAL RUNOFF (INCHES)	13.00		11.45		14.09	
10 PERCENT EXCEEDS	4,240		4,010		5,640	
50 PERCENT EXCEEDS	1,660		1,510		1,250	
90 PERCENT EXCEEDS	512		245		284	

[@] See PERIOD OF RECORD.
* See REMARKS.



02083640 TOWN CREEK AT US 258 NEAR PINETOPS, NC

LOCATION.--Lat 35°47'53", long 77°35'29", Edgecombe County, Hydrologic Unit 03020103, at bridge on US Highway 258, 0.2 mi downstream from Bynums Mill Creek and 2.8 mi east of Pinetops.

DRAINAGE AREA.--190 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--July 2003 to current year.

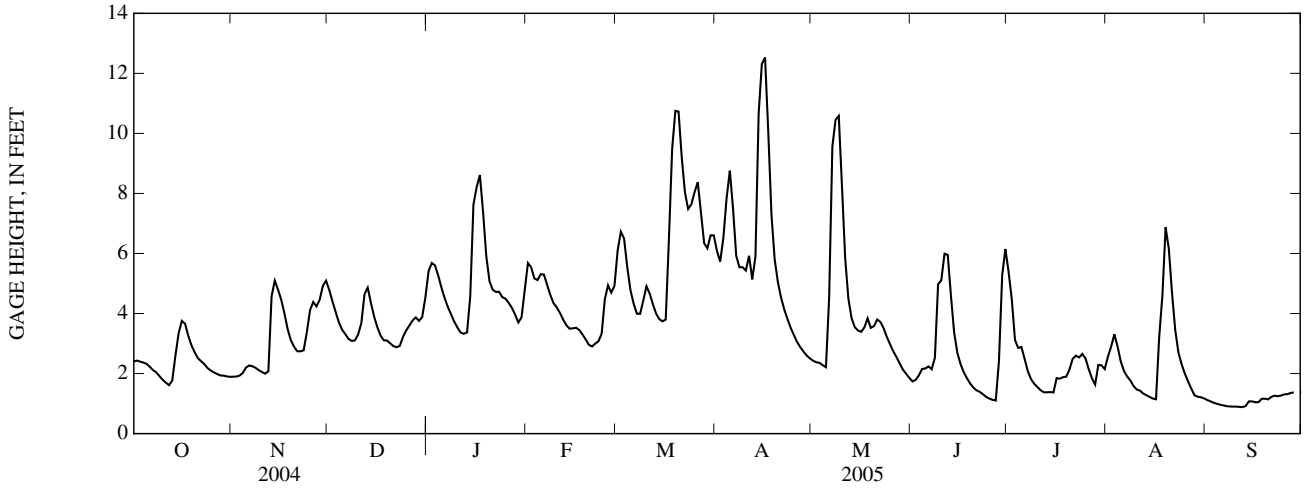
GAGE.--Water-stage recorder. Datum of gage is 20.00 ft, above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTEMES FOR PERIOD OF RECORD.--Maximum gage height, 15.92 ft, Sept. 20, 2003; minimum gage height, 0.87 ft, Sept. 12, 13, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.93 ft, Apr. 16; minimum gage height, 0.87 ft, Sept. 12, 13.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.40	1.89	4.78	5.41	5.68	6.11	6.08	2.43	1.74	5.39	2.56	1.12
2	2.43	1.90	4.41	5.68	5.55	6.73	5.73	2.38	1.79	4.47	2.90	1.08
3	2.40	1.93	4.05	5.60	5.17	6.50	6.53	2.35	1.94	3.12	3.31	1.03
4	2.37	2.02	3.70	5.26	5.11	5.55	7.85	2.28	2.15	2.85	2.90	0.99
5	2.32	2.20	3.46	4.86	5.31	4.78	8.76	2.21	2.17	2.88	2.40	0.96
6	2.23	2.27	3.31	4.52	5.29	4.32	7.50	4.55	2.24	2.48	2.09	0.94
7	2.12	2.24	3.16	4.22	4.95	3.99	5.92	9.56	2.15	2.08	1.90	0.91
8	2.04	2.19	3.09	3.98	4.62	3.99	5.54	10.45	2.53	1.81	1.77	0.90
9	1.92	2.11	3.10	3.73	4.34	4.43	5.54	10.58	4.98	1.66	1.58	0.90
10	1.79	2.05	3.30	3.53	4.20	4.91	5.43	8.25	5.11	1.55	1.47	0.90
11	1.70	1.99	3.67	3.37	4.02	4.66	5.92	5.84	5.99	1.44	1.43	0.89
12	1.61	2.08	4.65	3.33	3.80	4.31	5.14	4.50	5.96	1.38	1.33	0.88
13	1.77	4.57	4.86	3.37	3.61	4.00	5.90	3.84	4.61	1.37	1.28	0.92
14	2.60	5.10	4.35	4.58	3.50	3.81	10.67	3.54	3.37	1.38	1.22	1.07
15	3.35	4.80	3.90	7.63	3.51	3.74	12.31	3.44	2.70	1.37	1.17	1.07
16	3.76	4.46	3.54	8.21	3.53	3.80	12.53	3.39	2.32	1.85	1.15	1.04
17	3.66	4.01	3.27	8.61	3.45	6.50	10.04	3.54	2.04	1.83	3.23	1.05
18	3.26	3.49	3.11	7.38	3.31	9.48	7.29	3.84	1.84	1.88	4.60	1.16
19	2.94	3.11	3.10	5.91	3.14	10.75	5.80	3.52	1.67	1.90	6.87	1.16
20	2.71	2.90	3.01	5.08	2.96	10.73	5.05	3.58	1.53	2.14	6.16	1.14
21	2.51	2.74	2.92	4.79	2.90	9.20	4.53	3.80	1.44	2.49	4.69	1.22
22	2.41	2.74	2.88	4.72	3.00	8.03	4.13	3.72	1.39	2.60	3.45	1.26
23	2.32	2.77	2.92	4.72	3.08	7.48	3.82	3.51	1.31	2.54	2.70	1.25
24	2.19	3.38	3.22	4.55	3.32	7.64	3.52	3.22	1.22	2.65	2.31	1.27
25	2.10	4.11	3.43	4.49	4.47	8.04	3.28	2.98	1.17	2.51	2.00	1.31
26	2.04	4.39	3.60	4.35	4.94	8.37	3.05	2.74	1.12	2.15	1.74	1.31
27	1.99	4.24	3.77	4.19	4.70	7.36	2.88	2.55	1.10	1.85	1.50	1.35
28	1.94	4.45	3.87	3.96	4.92	6.34	2.73	2.34	2.43	1.63	1.28	1.37
29	1.93	4.92	3.75	3.70	---	6.17	2.60	2.13	5.28	2.29	1.23	---
30	1.91	5.09	3.88	3.87	---	6.60	2.50	1.99	6.15	2.27	1.21	1.38
31	1.89	---	4.54	4.78	---	6.60	---	1.86	---	2.15	1.17	---
MEAN	2.34	3.20	3.63	4.92	4.16	6.29	5.95	4.03	2.71	2.26	2.41	---
MAX	3.76	5.10	4.86	8.61	5.68	10.75	12.53	10.58	6.15	5.39	6.87	---
MIN	1.61	1.89	2.88	3.33	2.90	3.74	2.50	1.86	1.10	1.37	1.15	---



02083640 TOWN CREEK AT US 258 NEAR PINETOPS, NC—Continued

PRECIPITATION RECORDS

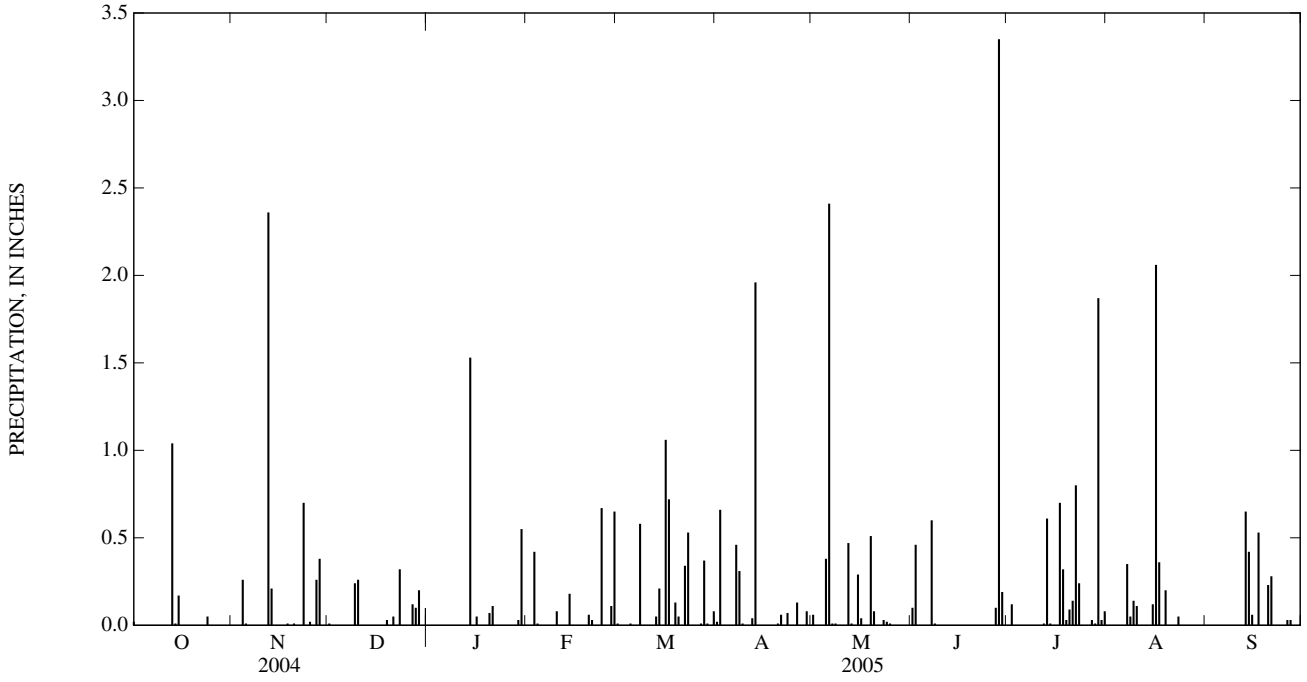
PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.00	0.01	0.00	0.00	0.01	0.02	0.06	0.10	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.46	0.12	0.00	0.00
3	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.38	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.41	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.01	0.60	0.00	0.35	0.00
8	0.00	0.00	0.00	0.00	0.00	0.58	0.31	0.01	0.01	0.00	0.05	0.00
9	0.00	0.00	0.24	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14	0.00
10	0.00	0.00	0.26	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.11	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	2.36	0.00	0.00	0.00	0.00	0.04	0.47	0.00	0.01	0.00	0.00
13	1.04	0.21	0.00	0.00	0.00	0.05	1.96	0.01	0.00	0.61	0.00	0.65
14	0.01	0.00	0.00	1.53	0.18	0.21	0.00	0.00	0.00	0.01	0.00	0.42
15	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.12	0.06
16	0.00	0.00	0.00	0.05	0.00	1.06	0.00	0.04	0.00	0.00	2.06	0.00
17	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.70	0.36	0.53
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00
19	0.00	0.00	0.03	0.00	0.00	0.13	0.00	0.51	0.00	0.03	0.20	0.00
20	0.00	0.01	0.00	0.07	0.06	0.05	0.01	0.08	0.00	0.09	0.00	0.23
21	0.00	0.00	0.05	0.11	0.03	0.00	0.06	0.00	0.00	0.14	0.00	0.28
22	0.00	0.00	0.00	---	0.00	0.34	0.00	0.00	0.00	0.80	0.00	0.00
23	0.00	0.70	0.32	---	0.00	0.53	0.07	0.03	0.00	0.24	0.05	0.00
24	0.05	0.00	0.00	---	0.67	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.03
27	0.00	0.26	0.12	0.00	0.11	0.01	0.00	0.00	0.10	0.03	0.00	0.03
28	0.00	0.38	0.10	0.00	0.65	0.37	0.00	0.00	3.35	0.01	0.00	0.00
29	0.00	0.00	0.20	0.03	---	0.01	0.08	0.00	0.19	1.87	0.00	---
30	0.00	0.00	0.00	0.55	---	0.00	0.00	0.00	0.00	0.03	0.00	0.00
31	0.00	---	0.00	0.00	---	0.08	---	0.00	---	0.08	0.00	---
TOTAL	1.29	4.22	1.33	---	2.21	4.16	3.81	4.33	4.81	5.09	3.44	---



02083893 TAR RIVER AT US 264 BYPASS NEAR ROCK SPRINGS, NC

LOCATION.--Lat 35°38'43", long 77°25'22", Pitt County, Hydrologic Unit 03020103, at bridge on US 264 Bypass and 1.7 mi northeast of Rock Spring.

DRAINAGE AREA.--2,621 mi^2.

PERIOD OF RECORD.--June 2003 to current year.

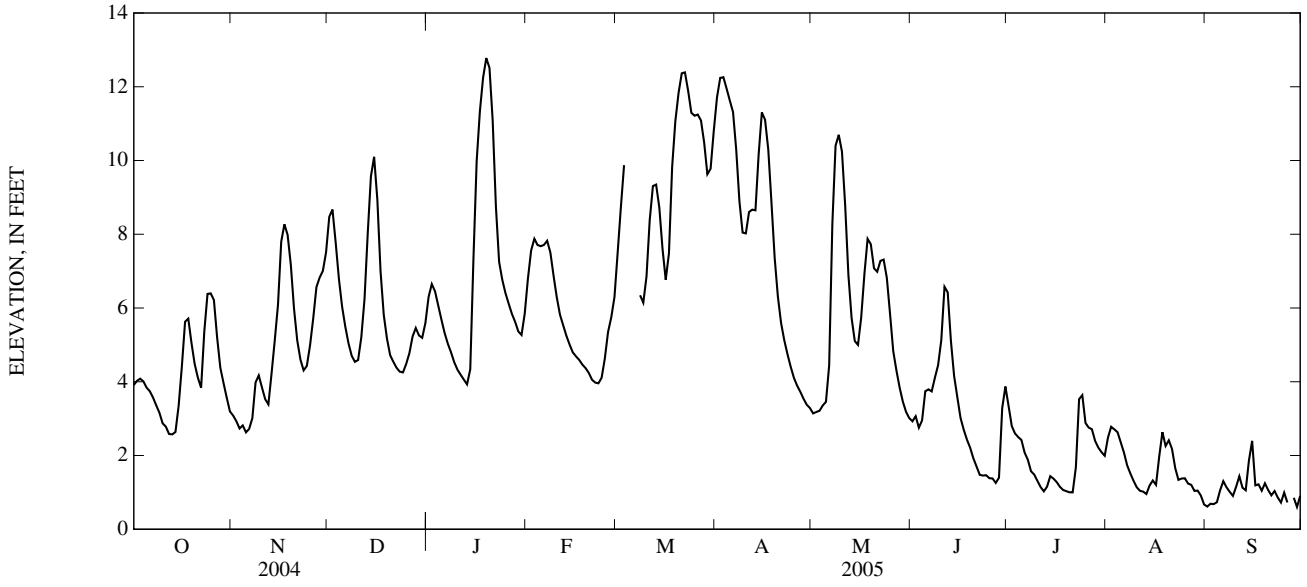
GAGE.--Water stage recorder. Datum of gage is at NAVD of 1988 (levels by North Carolina Geodetic Survey). Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 15.16 ft, Aug. 20, 2004; minimum elevation, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 12.85 ft, Jan. 19; minimum elevation, not determined.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.91	3.08	8.47	6.30	6.80	7.50	11.71	3.14	2.93	3.34	2.48	0.62
2	4.02	2.93	8.67	6.65	7.56	8.73	12.24	3.18	3.06	2.80	2.78	0.69
3	4.08	2.73	7.78	6.45	7.88	9.87	12.26	3.21	2.75	2.60	2.71	0.68
4	4.01	2.82	6.80	6.07	7.71	---	11.95	3.36	2.95	2.50	2.63	0.73
5	3.84	2.63	6.04	5.69	7.68	---	11.62	3.46	3.74	2.42	2.36	1.06
6	3.74	2.72	5.50	5.32	7.71	---	11.31	4.44	3.79	2.08	2.08	1.30
7	3.57	3.01	5.04	5.03	7.82	---	10.29	8.29	3.74	1.88	1.73	1.14
8	3.36	3.98	4.71	4.80	7.51	6.34	8.89	10.40	4.11	1.57	1.51	1.02
9	3.16	4.17	4.54	4.53	6.87	6.15	8.04	10.70	4.45	1.48	1.31	0.90
10	2.87	3.84	4.59	4.33	6.29	6.85	8.02	10.24	5.13	1.31	1.14	1.15
11	2.78	3.53	5.21	4.19	5.82	8.38	8.60	8.78	6.58	1.14	1.04	1.44
12	2.58	3.39	6.24	4.06	5.53	9.31	8.67	6.90	6.42	1.03	1.02	1.13
13	2.57	4.23	8.02	3.93	5.25	9.35	8.65	5.73	5.10	1.16	0.96	1.06
14	2.64	5.13	9.57	4.34	5.01	8.72	10.17	5.10	4.16	1.44	1.19	1.86
15	3.35	6.09	10.10	7.34	4.80	7.61	11.30	5.00	3.58	1.37	1.32	2.40
16	4.41	7.80	8.94	9.99	4.69	6.77	11.11	5.74	3.02	1.28	1.20	1.19
17	5.63	8.27	7.00	11.33	4.59	7.48	10.30	6.92	2.70	1.15	1.97	1.22
18	5.71	7.98	5.82	12.24	4.46	9.83	8.85	7.88	2.43	1.07	2.63	1.05
19	5.05	7.18	5.17	12.78	4.37	11.07	7.36	7.73	2.21	1.03	2.26	1.25
20	4.48	5.98	4.72	12.51	4.24	11.83	6.31	7.08	1.93	1.00	2.41	1.06
21	4.11	5.13	4.54	11.08	4.05	12.36	5.59	6.98	1.70	1.00	2.18	0.92
22	3.84	4.60	4.38	8.75	3.98	12.39	5.13	7.28	1.48	1.68	1.66	1.04
23	5.37	4.31	4.27	7.25	3.96	11.89	4.74	7.31	1.46	3.53	1.34	0.86
24	6.38	4.43	4.25	6.76	4.11	11.29	4.41	6.82	1.46	3.64	1.38	0.72
25	6.40	4.99	4.48	6.40	4.63	11.21	4.11	5.84	1.38	2.88	1.38	0.99
26	6.22	5.72	4.77	6.11	5.35	11.25	3.90	4.83	1.38	2.76	1.24	0.73
27	5.21	6.57	5.23	5.84	5.75	11.09	3.73	4.30	1.26	2.71	1.20	---
28	4.38	6.82	5.46	5.62	6.30	10.48	3.54	3.84	1.40	2.39	1.04	0.85
29	3.96	7.01	5.26	5.37	---	9.63	3.38	3.46	3.28	2.21	1.05	0.60
30	3.57	7.51	5.19	5.27	---	9.78	3.29	3.18	3.87	2.09	0.91	0.90
31	3.20	---	5.59	5.85	---	10.81	---	3.01	---	1.99	0.67	---
MEAN	4.14	4.95	6.01	6.84	5.74	---	7.98	5.94	3.12	1.95	1.64	---
MAX	6.40	8.27	10.10	12.78	7.88	---	12.26	10.70	6.58	3.64	2.78	---
MIN	2.57	2.63	4.25	3.93	3.96	---	3.29	3.01	1.26	1.00	0.67	---



02084000 TAR RIVER AT GREENVILLE, NC

LOCATION.--Lat 35°37'00", long 77°22'22", Pitt County, Hydrologic Unit 03020103, on right bank approximately 1500 ft downstream from railroad bridge, and 21 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,660 mi^2 (revised).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year. Gage height records collected at site 800 ft upstream from 1905 to 1935 and at site 200 ft upstream from 1935 to 1984, are in reports of the National Weather Service. Unpublished records of gage height for the period October 1984 to September 1990 are available in files of USGS District Office, Raleigh, NC.

REVISED RECORDS.--WDR NC-99-1(m).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is 3.54 ft below NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records fair except those for negative flow, which are poor. This site is affected by both astronomical and wind tides.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 22, 1940 reached a stage of 22.07 ft at site 200 ft upstream at present datum; discharge 36,500 ft^3/s. Maximum observed stage during period 1905-39 (National Weather Service Records) 24.5 ft July 28, 1919.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

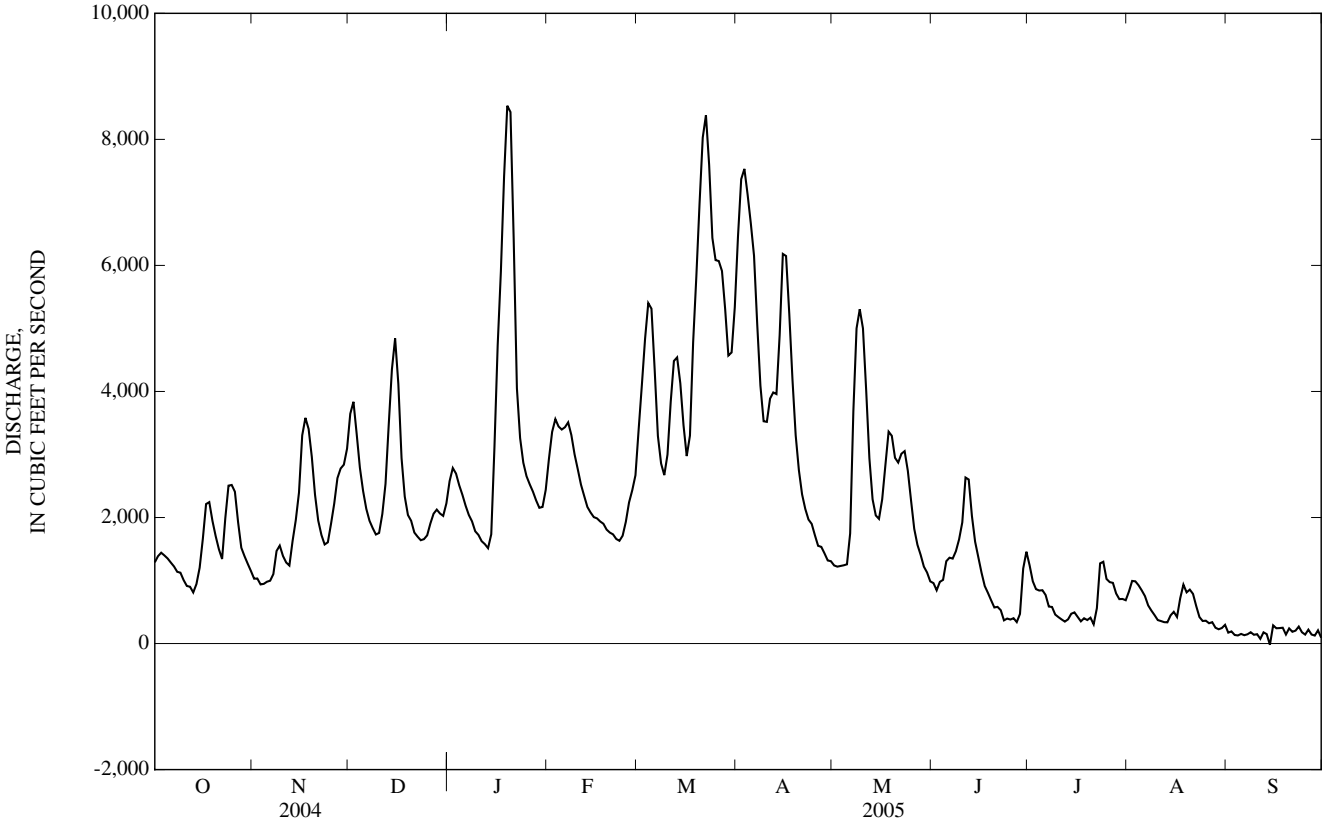
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,290	1,030	3,650	2,580	2,930	3,400	6,460	1,240	959	1,240	825	173
2	1,390	1,030	3,840	2,790	3,360	4,100	7,370	1,220	846	988	994	193
3	1,440	938	3,330	2,700	3,560	4,830	7,530	1,230	979	864	987	136
4	1,400	947	2,790	2,510	3,440	5,400	7,120	1,240	1,010	841	925	128
5	1,350	981	2,420	2,360	3,400	5,310	6,670	1,260	1,310	846	843	153
6	1,290	997	2,140	2,190	3,430	4,340	6,150	1,750	1,360	770	753	133
7	1,220	1,100	1,950	2,040	3,510	3,290	5,060	3,680	1,350	587	605	147
8	1,140	1,470	1,830	1,940	3,310	2,860	4,090	5,000	1,470	580	524	180
9	1,120	1,550	1,730	1,780	3,000	2,670	3,530	5,300	1,650	460	451	139
10	1,010	1,390	1,750	1,720	2,760	3,000	3,520	5,000	1,920	419	372	148
11	914	1,290	2,060	1,620	2,520	3,840	3,890	4,020	2,630	382	357	74
12	901	1,240	2,530	1,580	2,340	4,480	3,980	2,940	2,600	348	339	178
13	811	1,630	3,470	1,510	2,170	4,540	3,960	2,290	2,020	384	337	149
14	945	1,960	4,350	1,730	2,080	4,130	4,890	2,030	1,620	473	447	-20
15	1,200	2,400	4,840	3,120	2,010	3,460	6,180	1,980	1,370	494	503	289
16	1,660	3,300	4,120	4,730	1,990	2,970	6,150	2,290	1,120	423	421	243
17	2,210	3,580	2,940	5,900	1,940	3,300	5,230	2,830	913	352	719	245
18	2,240	3,410	2,330	7,410	1,900	4,780	4,190	3,360	803	401	935	251
19	1,940	2,960	2,040	8,530	1,810	5,820	3,310	3,300	686	373	812	143
20	1,700	2,360	1,950	8,430	1,760	6,980	2,750	2,950	573	411	856	240
21	1,500	1,950	1,760	6,430	1,730	8,030	2,370	2,870	582	305	788	187
22	1,340	1,720	1,700	4,050	1,660	8,380	2,140	3,010	529	561	594	205
23	1,990	1,570	1,640	3,260	1,630	7,590	1,970	3,050	368	1,270	421	270
24	2,510	1,610	1,660	2,870	1,710	6,440	1,900	2,740	396	1,300	358	179
25	2,520	1,900	1,720	2,660	1,930	6,080	1,720	2,270	381	1,020	362	142
26	2,410	2,220	1,900	2,530	2,240	6,070	1,550	1,820	402	975	322	221
27	1,920	2,630	2,060	2,410	2,430	5,910	1,530	1,570	340	963	339	143
28	1,520	2,780	2,130	2,270	2,670	5,300	1,430	1,410	470	795	251	127
29	1,390	2,840	2,060	2,150	---	4,570	1,320	1,220	1,190	705	227	210
30	1,270	3,090	2,030	2,170	---	4,620	1,310	1,130	1,460	708	246	93
31	1,150	---	2,220	2,440	---	5,340	---	987	---	687	297	---
TOTAL	46,691	57,873	76,940	100,410	69,220	151,830	119,270	76,987	33,307	20,925	17,210	5,099
MEAN	1,506	1,929	2,482	3,239	2,472	4,898	3,976	2,483	1,110	675	555	170
MAX	2,520	3,580	4,840	8,530	3,560	8,380	7,530	5,300	2,630	1,300	994	289
MIN	811	938	1,640	1,510	1,630	2,670	1,310	987	340	305	227	-20
CFSM	0.57	0.73	0.93	1.22	0.93	1.84	1.49	0.93	0.42	0.25	0.21	0.06
IN.	0.65	0.81	1.08	1.40	0.97	2.12	1.67	1.08	0.47	0.29	0.24	0.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	2,446	1,719	2,399	3,388	4,880	5,031	3,814	1,993	1,511	918	1,924	5,279
MAX	11,690	5,031	5,521	6,167	13,280	12,020	8,873	4,968	4,141	1,998	4,658	29,850
(WY)	(2000)	(2003)	(2003)	(1999)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2004)	(1999)
MIN	282	265	455	1,133	1,898	1,857	1,643	528	190	265	287	170
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(1999)	(2005)

02084000 TAR RIVER AT GREENVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	881,921		775,762			
ANNUAL MEAN	2,410		2,125		2,976	
HIGHEST ANNUAL MEAN					5,052	2003
LOWEST ANNUAL MEAN					1,288	2002
HIGHEST DAILY MEAN	11,900	Aug 20	8,530	Jan 19	72,300	Sep 21, 1999
LOWEST DAILY MEAN	413	Jun 23	-20	Sep 14	-20	Sep 14, 2005
ANNUAL SEVEN-DAY MINIMUM	464	Jun 19	121	Sep 8	84	Aug 19, 2002
MAXIMUM PEAK FLOW			9,020	Jan 19	73,000	Sep 21, 1999
MAXIMUM PEAK STAGE			11.46	Jan 20	29.72	Sep 21, 1999
INSTANTANEOUS LOW FLOW			-610	Sep 24	-851	Aug 22, 1999
ANNUAL RUNOFF (CFSM)	0.906		0.799		1.12	
ANNUAL RUNOFF (INCHES)	12.33		10.85		15.20	
10 PERCENT EXCEEDS	4,660		4,660		6,820	
50 PERCENT EXCEEDS	1,900		1,720		1,640	
90 PERCENT EXCEEDS	726		331		305	



02084000 TAR RIVER AT GREENVILLE, NC—Continued

PRECIPITATION RECORDS

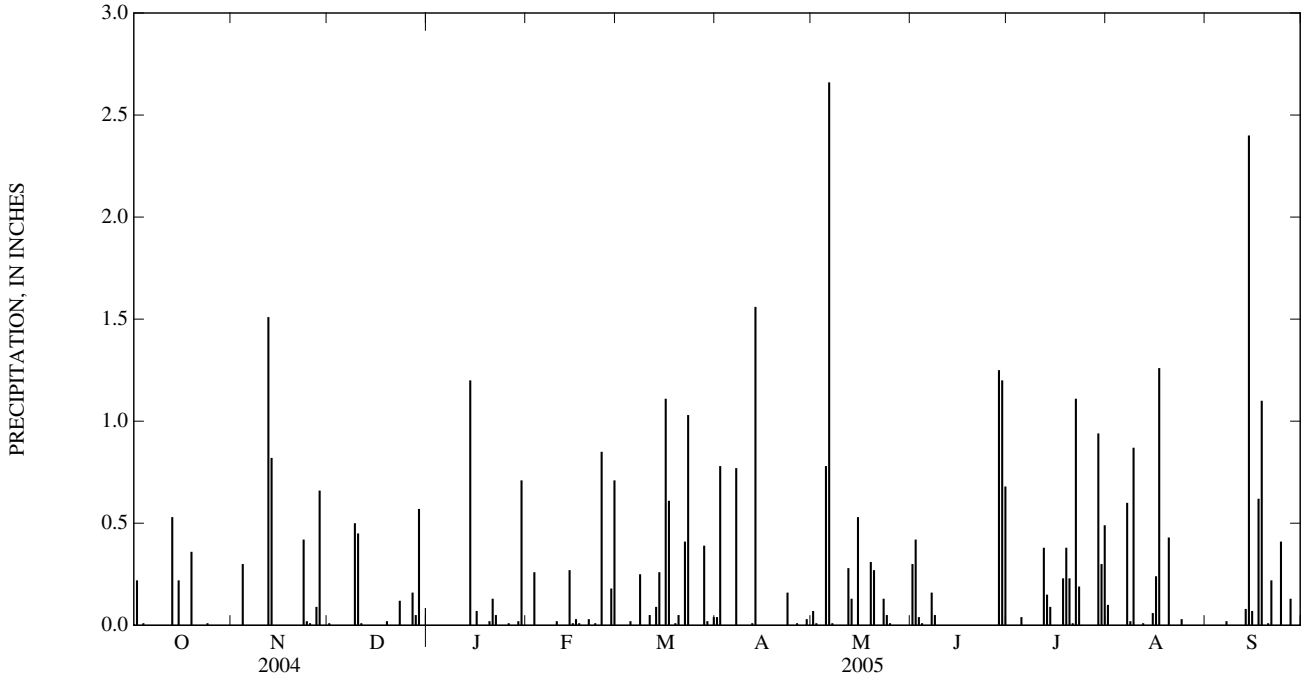
PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.07	0.30	0.00	0.10	0.00
2	0.22	0.00	0.00	0.00	0.00	0.00	0.78	0.01	0.42	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.04	0.00	0.00	0.00
4	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.78	0.00	0.04	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.66	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.01	0.16	0.00	0.60	0.02
8	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.05	0.00	0.02	0.00
9	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00
10	0.00	0.00	0.45	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.51	0.00	0.00	0.00	0.00	0.01	0.28	0.00	0.38	0.01	0.00
13	0.53	0.82	0.00	0.00	0.00	0.09	1.56	0.13	0.00	0.15	0.00	0.08
14	0.00	0.00	0.00	1.20	0.27	0.26	0.00	0.00	0.00	0.09	0.00	2.40
15	0.22	0.00	0.00	0.00	0.01	0.00	0.00	0.53	0.00	0.00	0.06	0.07
16	0.00	0.00	0.00	0.07	0.03	1.11	0.00	0.00	0.00	0.00	0.24	0.00
17	0.00	0.00	0.00	0.00	0.01	0.61	0.00	0.00	0.00	0.00	1.26	0.62
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	1.10
19	0.36	0.00	0.02	0.00	0.00	0.01	0.00	0.31	0.00	0.38	0.00	0.00
20	0.00	0.00	0.00	0.02	0.03	0.05	0.00	0.27	0.00	0.23	0.43	0.01
21	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.22
22	0.00	0.00	0.00	0.05	0.01	0.41	0.00	0.00	0.00	1.11	0.00	0.00
23	0.00	0.42	0.12	0.00	0.00	1.03	0.16	0.13	0.00	0.19	0.00	0.00
24	0.01	0.02	0.00	0.00	0.85	0.00	0.00	0.05	0.00	0.00	0.03	0.41
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
27	0.00	0.09	0.16	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.13
28	0.00	0.66	0.05	0.00	0.71	0.39	0.00	0.00	1.25	0.00	0.00	0.00
29	0.00	0.00	0.57	0.02	---	0.02	0.03	0.00	1.20	0.94	0.00	0.00
30	0.00	0.00	0.00	0.71	---	0.00	0.00	0.00	0.68	0.30	0.00	0.00
31	0.00	---	0.00	0.00	---	0.04	---	0.00	---	0.49	0.00	---
TOTAL	1.35	3.83	1.89	2.21	2.38	4.34	3.36	5.24	4.11	4.54	3.62	5.06



02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC

LOCATION.--Lat 35°33'42", long 77°13'51", Pitt County, Hydrologic Unit 03020103, on left bank at downstream side of bridge on Secondary Road 1760, 0.6 mi upstream from Juniper Branch, and 2.8 mi east-southeast of Simpson.

DRAINAGE AREA.--45 mi^2.

PERIOD OF RECORD.--October 1975 to March 1987. May 1992 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1.1 ft below NAVD of 1988. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from flood mark. No flow occurs at times during most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.8	1.3	24	26	49	137	46	7.6	13	135	555	28
2	2.7	1.4	20	24	43	72	327	7.6	19	59	e229	28
3	2.7	1.6	17	21	38	49	458	6.7	22	32	e62	27
4	2.6	1.9	15	20	38	41	185	6.3	27	29	e38	26
5	2.6	2.1	13	23	37	36	83	9.1	26	40	e32	26
6	2.4	1.8	13	20	34	33	53	179	22	30	e31	25
7	1.9	1.7	12	16	32	30	42	477	23	24	e29	25
8	1.5	1.5	13	15	29	29	46	257	29	19	e32	26
9	1.3	1.3	16	14	27	29	65	118	39	16	e51	25
10	1.1	1.1	21	13	26	27	54	61	33	15	137	25
11	0.85	0.97	26	13	24	25	42	42	29	14	64	25
12	0.73	1.8	25	13	23	26	33	32	23	12	46	24
13	2.6	18	24	12	21	25	58	31	20	13	35	24
14	4.4	29	21	36	21	30	455	25	19	14	30	35
15	4.4	21	18	184	23	36	286	22	20	15	28	104
16	4.9	13	16	98	24	38	124	22	20	19	31	135
17	10	9.4	16	70	24	273	65	20	18	23	200	53
18	8.1	7.1	14	54	26	331	47	16	18	27	142	29
19	5.7	5.9	14	44	23	171	37	16	17	29	51	19
20	4.3	5.1	14	40	20	114	30	16	17	22	38	13
21	3.6	5.0	13	39	20	128	24	15	15	19	31	9.3
22	3.4	6.9	13	37	20	76	20	12	12	15	26	5.8
23	3.0	11	17	36	19	76	17	10	11	16	24	3.7
24	2.7	13	35	35	24	246	12	9.9	11	16	22	2.4
25	2.3	15	29	33	31	135	8.2	10	11	17	19	1.4
26	1.8	17	34	31	31	72	6.7	9.3	12	18	21	1.2
27	1.5	17	76	29	29	53	7.3	8.2	12	19	24	1.4
28	1.3	25	51	26	75	59	6.8	8.2	14	19	25	1.6
29	1.3	39	39	24	---	115	7.4	10	38	20	27	1.7
30	1.4	32	33	38	---	78	6.7	12	121	26	28	1.7
31	1.3	---	30	65	---	52	---	13	---	165	29	---
TOTAL	91.18	307.87	722	1,149	831	2,642	2,652.1	1,488.9	711	937	2,137	752.2
MEAN	2.94	10.3	23.3	37.1	29.7	85.2	88.4	48.0	23.7	30.2	68.9	25.1
MAX	10	39	76	184	75	331	458	477	121	165	555	135
MIN	0.73	0.97	12	12	19	25	6.7	6.3	11	12	19	1.2
CFSM	0.07	0.23	0.52	0.82	0.66	1.89	1.96	1.07	0.53	0.67	1.53	0.56
IN.	0.08	0.25	0.60	0.95	0.69	2.18	2.19	1.23	0.59	0.77	1.77	0.62

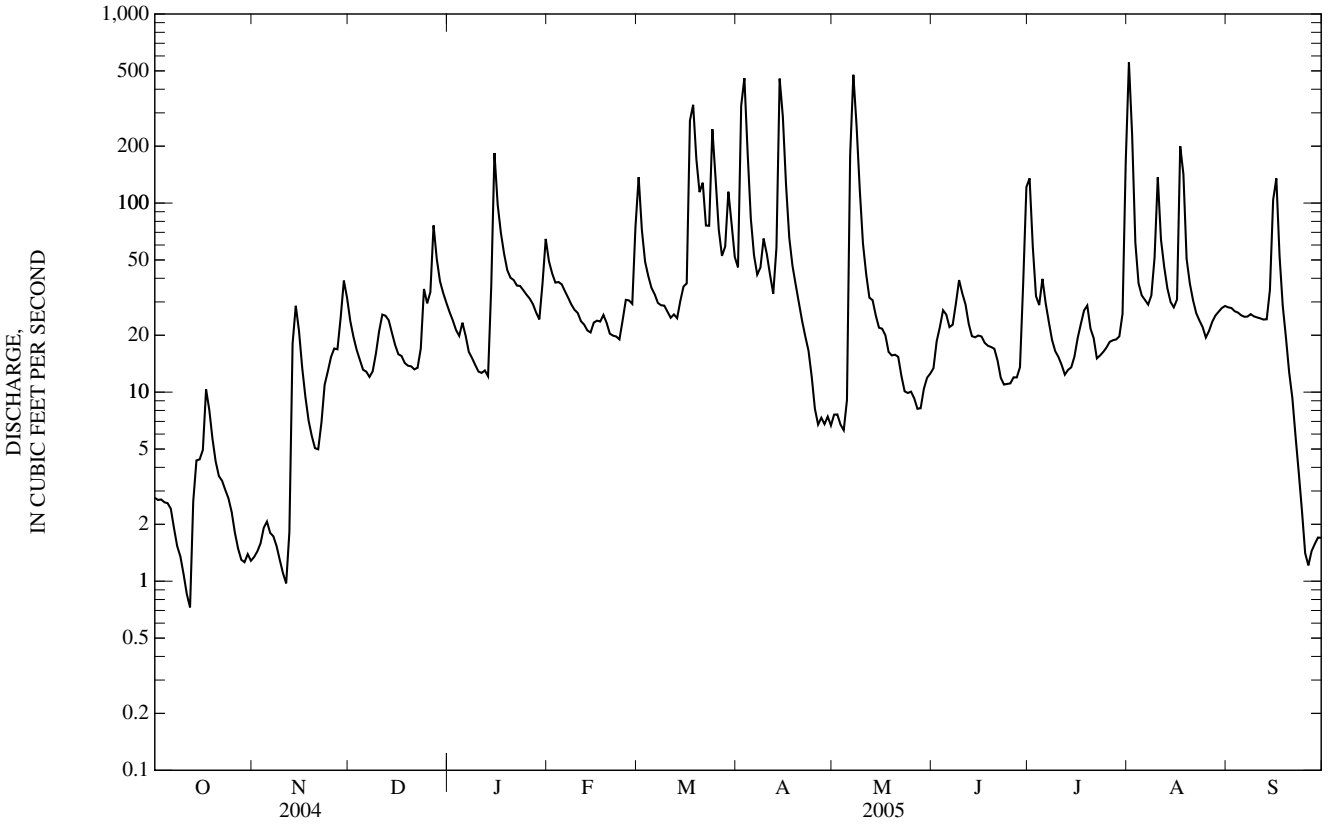
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005,@ BY WATER YEAR (WY)

MEAN	32.5	31.8	48.4	90.0	82.9	92.7	55.5	35.1	31.7	20.9	43.7	90.1
MAX	274	219	128	244	245	201	144	149	192	120	238	1,188
(WY)	(2000)	(1978)	(2004)	(1978)	(1998)	(1980)	(1978)	(2003)	(1995)	(1996)	(1992)	(1999)
MIN	0.27	1.23	4.41	6.85	19.7	18.0	4.49	0.65	0.00	0.89	0.00	0.02
(WY)	(1977)	(1982)	(2002)	(2003)	(1977)	(1981)	(1981)	(1985)	(1985)	(1998)	(1976)	(2002)

02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005[@]	
ANNUAL TOTAL	14,131.45		14,421.25			
ANNUAL MEAN	38.6		39.5		54.0	
HIGHEST ANNUAL MEAN					129	1999
LOWEST ANNUAL MEAN					20.4	2001
HIGHEST DAILY MEAN	642	Aug 15	555	Aug 1	4,560	Sep 18, 1999
LOWEST DAILY MEAN	0.73	Oct 12	0.73	Oct 12	0.00	Jul 19, 1976
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 27	1.4	Oct 27	0.00	Jul 19, 1976
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			9.76	Apr 2	21.46	Sep 18, 1999
INSTANTANEOUS LOW FLOW					0.00*	Jul 19, 1976
ANNUAL RUNOFF (CFSM)	0.858		0.878		1.20	
ANNUAL RUNOFF (INCHES)	11.68		11.92		16.30	
10 PERCENT EXCEEDS	76		75		122	
50 PERCENT EXCEEDS	22		23		13	
90 PERCENT EXCEEDS	2.7		2.7		0.53	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02084173 TAR RIVER AT SECONDARY ROAD 1565 NEAR GRIMESLAND, NC

LOCATION.--Lat 35°34'26", long 77°10'33", Pitt County, Hydrologic Unit 03020103, at bridge on Secondary Road 1565, approximately 1.1 mi northeast of Grimesland.

DRAINAGE AREA.--2,858 mi^2.

PERIOD OF RECORD.--May 2003 to current year.

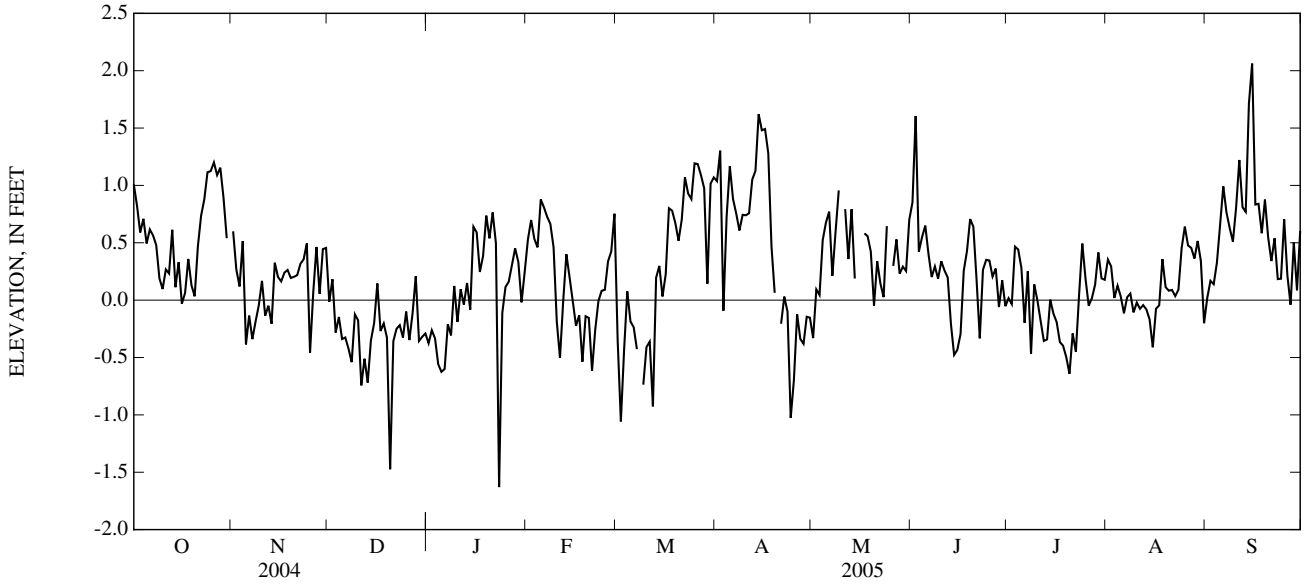
GAGE.--Water stage recorder. Elevation of gage is at NAVD of 1988 (levels by North Carolina Geodetic Survey). Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4.15 ft, Sept. 18, 2003; minimum elevation, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.82 ft, Sept. 14; minimum elevation, not determined.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.01	0.60	-0.01	-0.38	0.53	-0.35	1.04	-0.33	0.85	0.02	0.35	0.02
2	0.82	0.27	0.18	-0.26	0.70	-1.06	1.30	0.09	1.61	-0.04	0.29	0.17
3	0.59	0.12	-0.28	-0.33	0.53	-0.44	-0.09	0.04	0.42	0.47	0.02	0.14
4	0.71	0.51	-0.15	-0.56	0.46	0.08	0.73	0.52	0.55	0.44	0.13	0.33
5	0.49	-0.39	-0.34	-0.63	0.88	-0.19	1.17	0.68	0.65	0.28	0.03	0.66
6	0.62	-0.14	-0.33	-0.60	0.81	-0.24	0.88	0.77	0.40	-0.20	-0.11	0.99
7	0.56	-0.34	-0.42	-0.21	0.73	-0.43	0.75	0.21	0.20	0.25	0.03	0.76
8	0.48	-0.19	-0.54	-0.31	0.66	---	0.61	0.59	0.29	-0.47	0.06	0.63
9	0.19	-0.05	-0.12	0.12	0.46	-0.74	0.74	0.96	0.19	0.14	-0.11	0.51
10	0.10	0.17	-0.18	-0.19	-0.19	-0.41	0.74	---	0.34	0.00	-0.02	0.81
11	0.27	-0.14	-0.74	0.09	-0.50	-0.36	0.76	0.79	0.26	-0.18	-0.08	1.22
12	0.23	-0.05	-0.51	-0.04	-0.01	-0.93	1.05	0.36	0.20	-0.36	-0.04	0.81
13	0.61	-0.21	-0.72	0.15	0.40	0.20	1.13	0.79	-0.21	-0.34	-0.08	0.77
14	0.11	0.33	-0.35	-0.08	0.20	0.30	1.62	0.19	-0.48	0.00	-0.17	1.71
15	0.33	0.20	-0.20	0.64	-0.01	0.03	1.48	---	-0.43	-0.12	-0.41	2.06
16	-0.03	0.16	0.14	0.59	-0.22	0.23	1.49	---	-0.30	-0.19	-0.08	0.83
17	0.06	0.24	-0.27	0.25	-0.13	0.80	1.28	0.58	0.26	-0.37	-0.04	0.84
18	0.36	0.26	-0.20	0.39	-0.54	0.78	0.47	0.56	0.43	-0.40	0.36	0.58
19	0.13	0.19	-0.33	0.74	-0.14	0.67	0.06	0.42	0.71	-0.50	0.11	0.88
20	0.03	0.20	-1.47	0.54	-0.15	0.52	---	-0.05	0.64	-0.64	0.08	0.55
21	0.47	0.22	-0.36	0.76	-0.61	0.70	-0.21	0.34	0.18	-0.29	0.09	0.34
22	0.74	0.32	-0.25	0.50	-0.26	1.07	0.03	0.14	-0.33	-0.45	0.04	0.54
23	0.88	0.36	-0.22	-1.63	-0.01	0.93	-0.10	0.03	0.27	0.05	0.09	0.18
24	1.11	0.49	-0.33	-0.11	0.08	0.88	-1.03	0.65	0.35	0.49	0.45	0.19
25	1.12	-0.46	-0.10	0.11	0.09	1.19	-0.70	---	0.35	0.19	0.64	0.70
26	1.20	0.07	-0.35	0.16	0.34	1.19	-0.12	0.30	0.21	-0.05	0.48	0.22
27	1.09	0.46	-0.12	0.31	0.42	1.09	-0.34	0.53	0.28	0.02	0.46	-0.04
28	1.15	0.06	0.21	0.45	0.75	0.98	-0.38	0.23	-0.06	0.14	0.36	0.50
29	0.89	0.44	-0.36	0.33	---	0.14	-0.14	0.29	0.17	0.42	0.52	0.09
30	0.54	0.46	-0.32	-0.02	---	1.02	-0.15	0.25	-0.05	0.19	0.34	0.60
31	---	---	-0.29	0.25	---	1.07	---	0.70	---	0.18	-0.20	---
MEAN	---	0.14	-0.30	0.03	0.19	---	---	---	0.27	-0.04	0.12	0.62
MAX	---	0.60	0.21	0.76	0.88	---	---	---	1.61	0.49	0.64	2.06
MIN	---	-0.46	-1.47	-1.63	-0.61	---	---	---	-0.48	-0.64	-0.41	-0.04



0208436195 TRANTERS CREEK AT SECONDARY ROAD 1567 NEAR WASHINGTON, NC

LOCATION.--Lat 35°33'47", long 77°05'10", Beaufort County, Hydrologic Unit 03020103, on Secondary Road 1567, 2 mi northwest of Washington.

DRAINAGE AREA.--246 mi^2.

ELEVATION RECORDS

PERIOD OF RECORD.--June 2003 to current year.

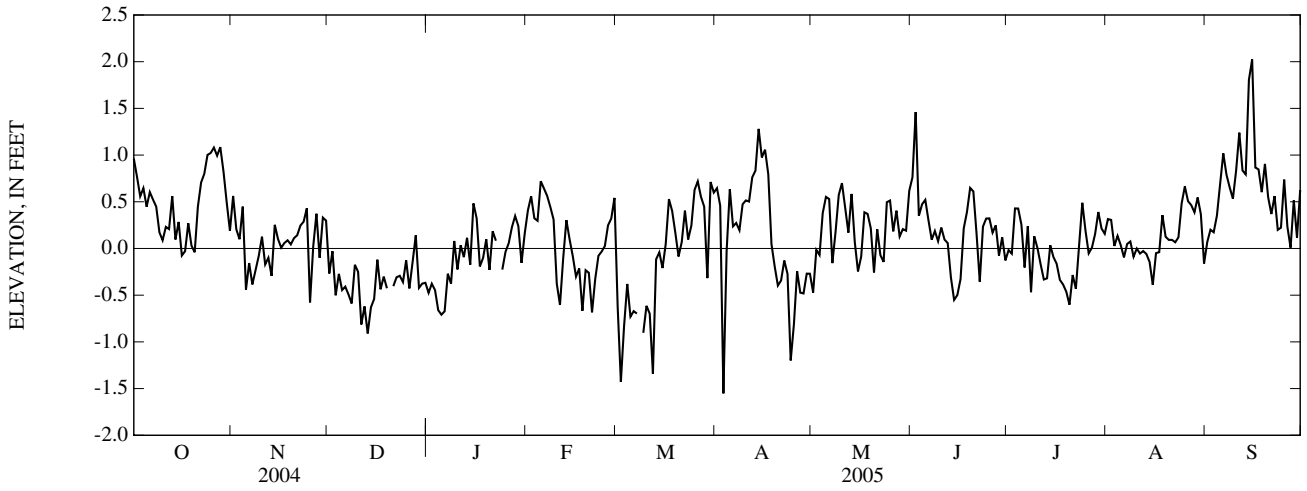
GAGE.--Water-stage recorder. Datum of gage is sea level, NAVD 1988 (levels by North Carolina Geodetic Survey).

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded, 4.97 ft, Sept. 18, 2003; minimum recorded, not determined.

EXTREMES FOR CURRENT YEAR.--Maximum recorded, 2.98 ft, Sept. 14; minimum recorded, not determined.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	0.56	-0.27	-0.47	0.41	-0.62	0.65	-0.47	0.76	-0.02	0.31	0.07
2	0.77	0.20	-0.03	-0.38	0.56	-1.43	0.46	-0.02	1.46	-0.06	0.31	0.20
3	0.56	0.10	-0.50	-0.45	0.32	-0.83	-1.55	-0.07	0.35	0.43	0.03	0.17
4	0.65	0.45	-0.27	-0.66	0.30	-0.38	-0.03	0.38	0.47	0.43	0.13	0.35
5	0.45	-0.44	-0.45	-0.71	0.72	-0.73	0.63	0.55	0.52	0.25	0.04	0.69
6	0.60	-0.16	-0.41	-0.67	0.64	-0.67	0.24	0.53	0.30	-0.20	-0.10	1.02
7	0.52	-0.39	-0.49	-0.27	0.56	-0.70	0.27	-0.16	0.09	0.24	0.05	0.79
8	0.45	-0.23	-0.59	-0.38	0.44	---	0.20	0.18	0.19	-0.47	0.07	0.65
9	0.17	-0.08	-0.17	0.08	0.31	-0.90	0.47	0.57	0.08	0.13	-0.09	0.53
10	0.09	0.13	-0.25	-0.22	-0.38	-0.61	0.51	0.70	0.22	0.00	0.00	0.83
11	0.23	-0.17	-0.81	0.03	-0.60	-0.70	0.50	0.44	0.10	-0.17	-0.05	1.24
12	0.21	-0.10	-0.62	-0.09	-0.11	-1.34	0.76	0.17	0.06	-0.33	-0.03	0.83
13	0.56	-0.29	-0.91	0.11	0.30	-0.12	0.83	0.58	-0.31	-0.32	-0.06	0.79
14	0.10	0.25	-0.63	-0.17	0.10	-0.04	1.28	0.07	-0.55	0.04	-0.14	1.81
15	0.28	0.10	-0.54	0.48	-0.08	-0.21	0.97	-0.25	-0.50	-0.09	-0.39	2.02
16	-0.08	0.01	-0.12	0.32	-0.30	0.05	1.06	-0.09	-0.33	-0.16	-0.05	0.87
17	-0.03	0.06	-0.44	-0.19	-0.21	0.53	0.79	0.39	0.21	-0.34	-0.04	0.85
18	0.27	0.09	-0.30	-0.10	-0.67	0.40	0.05	0.37	0.39	-0.39	0.36	0.60
19	0.03	0.04	-0.43	0.10	-0.23	0.17	-0.19	0.22	0.65	-0.46	0.13	0.91
20	-0.04	0.11	---	-0.23	-0.26	-0.09	-0.40	-0.26	0.61	-0.60	0.09	0.55
21	0.45	0.14	-0.40	0.18	-0.68	0.07	-0.34	0.21	0.16	-0.28	0.09	0.37
22	0.71	0.25	-0.31	0.08	-0.33	0.40	-0.13	-0.07	-0.36	-0.43	0.07	0.56
23	0.80	0.29	-0.29	---	-0.08	0.10	-0.27	-0.14	0.23	0.04	0.12	0.20
24	1.00	0.43	-0.36	-0.23	-0.03	0.25	-1.20	0.50	0.32	0.49	0.48	0.22
25	1.02	-0.58	-0.13	-0.04	0.03	0.63	-0.81	0.51	0.32	0.19	0.66	0.74
26	1.08	0.02	-0.43	0.06	0.25	0.72	-0.24	0.18	0.17	-0.05	0.51	0.23
27	0.99	0.37	-0.15	0.23	0.32	0.55	-0.47	0.40	0.25	0.01	0.46	0.01
28	1.09	-0.10	0.14	0.35	0.54	0.45	-0.48	0.13	-0.08	0.16	0.39	0.51
29	0.82	0.33	-0.42	0.24	---	-0.32	-0.27	0.21	0.12	0.39	0.55	0.12
30	0.49	0.30	-0.38	-0.15	---	0.71	-0.27	0.19	-0.13	0.21	0.37	0.63
31	0.19	---	-0.37	0.16	---	0.60	---	0.62	---	0.16	-0.16	---
MEAN	0.50	0.06	---	---	0.07	---	0.10	0.21	0.19	-0.04	0.13	0.65
MAX	1.09	0.56	---	---	0.72	---	1.28	0.70	1.46	0.49	0.66	2.02
MIN	-0.08	-0.58	---	---	-0.68	---	-1.55	-0.47	-0.55	-0.60	-0.39	0.01



0208436195 TRANTERS CREEK AT SECONDARY ROAD 1567 NEAR WASHINGTON, NC—Continued

PRECIPITATION RECORDS

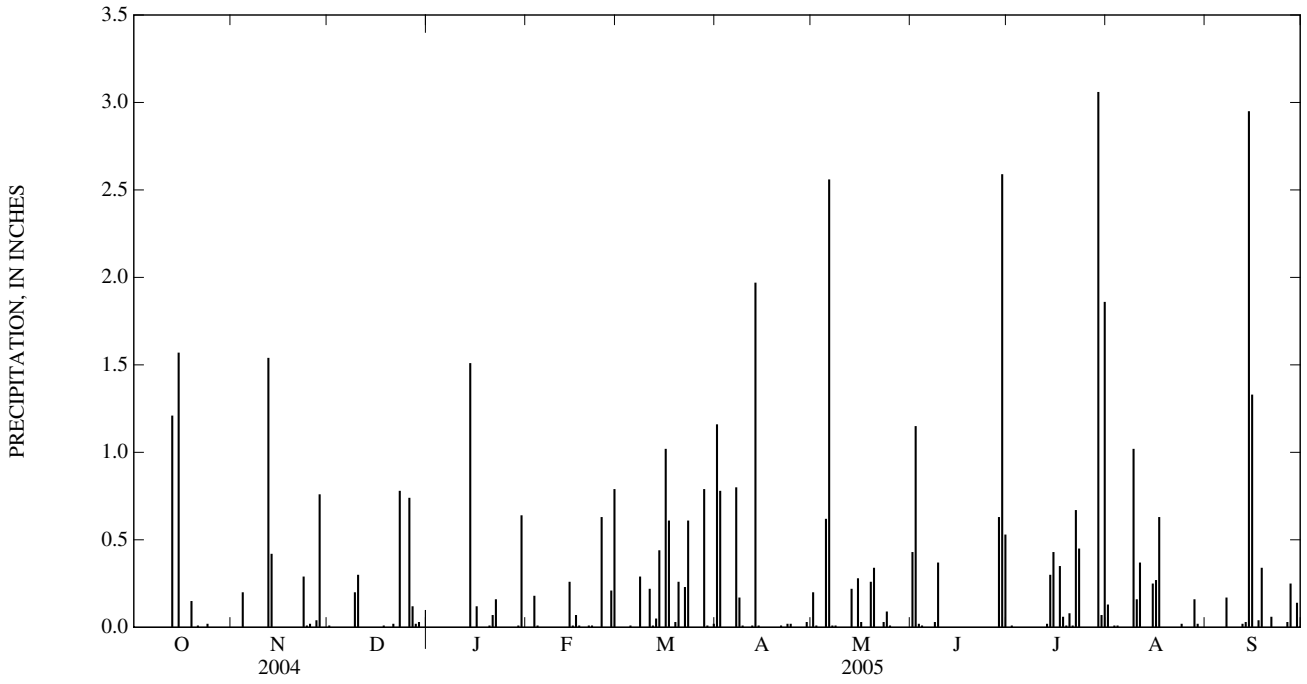
PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.01	0.00	0.00	0.00	1.16	0.20	0.43	0.00	0.13	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.01	1.15	0.01	0.00	0.00
3	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.02	0.00	0.01	0.00
4	0.00	0.20	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.01	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.62	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.56	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.01	0.00	0.00	0.00	0.17
8	0.00	0.00	0.00	0.00	0.00	0.29	0.17	0.01	0.03	0.00	0.00	0.00
9	0.00	0.00	0.20	0.00	0.00	0.00	0.01	0.00	0.37	0.00	1.02	0.00
10	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00
11	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.37	0.00
12	0.00	1.54	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.02
13	1.21	0.42	0.00	0.00	0.00	0.05	1.97	0.22	0.00	0.02	0.00	0.03
14	0.00	0.00	0.00	1.51	0.26	0.44	0.01	0.00	0.00	0.30	0.00	2.95
15	1.57	0.00	0.00	0.00	0.01	0.00	0.00	0.28	0.00	0.43	0.25	1.33
16	0.00	0.00	0.00	0.12	0.07	1.02	0.00	0.03	0.00	0.00	0.27	0.00
17	0.00	0.00	0.00	0.00	0.01	0.61	0.00	0.00	0.00	0.35	0.63	0.04
18	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.34
19	0.15	0.00	0.00	0.00	0.00	0.03	0.00	0.26	0.00	0.01	0.00	0.00
20	0.00	0.00	0.00	0.01	0.01	0.26	0.00	0.34	0.00	0.08	0.00	0.00
21	0.01	0.00	0.02	0.07	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.06
22	0.00	0.00	0.00	0.16	0.00	0.23	0.00	0.00	0.00	0.67	0.00	0.00
23	0.00	0.29	0.78	0.00	0.00	0.61	0.02	0.03	0.00	0.45	0.00	0.00
24	0.02	0.01	0.00	0.00	0.63	0.00	0.02	0.09	0.00	0.00	0.02	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
26	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
27	0.00	0.04	0.12	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.25
28	0.00	0.76	0.02	0.00	0.79	0.79	0.00	0.00	0.63	0.00	0.16	0.00
29	0.00	0.00	0.03	0.01	---	0.01	0.03	0.00	2.59	3.06	0.02	0.14
30	0.00	0.00	0.00	0.64	---	0.00	0.00	0.00	0.53	0.07	0.00	0.00
31	0.00	---	0.00	0.00	---	0.02	---	0.00	---	1.86	0.00	---
TOTAL	2.96	3.28	2.23	2.52	2.19	4.60	4.99	4.67	5.76	7.38	3.05	5.36



02084472 PAMLICO RIVER AT WASHINGTON, NC

LOCATION.--Lat 35°32'36", long 77°03'43", Beaufort County, Hydrologic Unit 03020104, at bridge on US Highway 17 at Washington, and 0.7 mi downstream of Kennedy Creek.

DRAINAGE AREA.--3,200 mi^2.

PERIOD OF RECORD.--October 1999 to current year. Daily mean elevations published March 1988 to May 1993.
REVISED RECORDS.--WRD NC-00-1B: Drainage area.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records poor. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 83,000 ft^3/s, Sept. 21, 1999, maximum gage height, 8.14 ft, Sept. 16, 1999; minimum discharge, -90,800 ft^3/s, Sept. 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 21,000 ft^3/s, Apr. 2, maximum gage height 4.04 ft, Sept. 14; minimum discharge, -14,800 ft^3/s, Sept. 14.

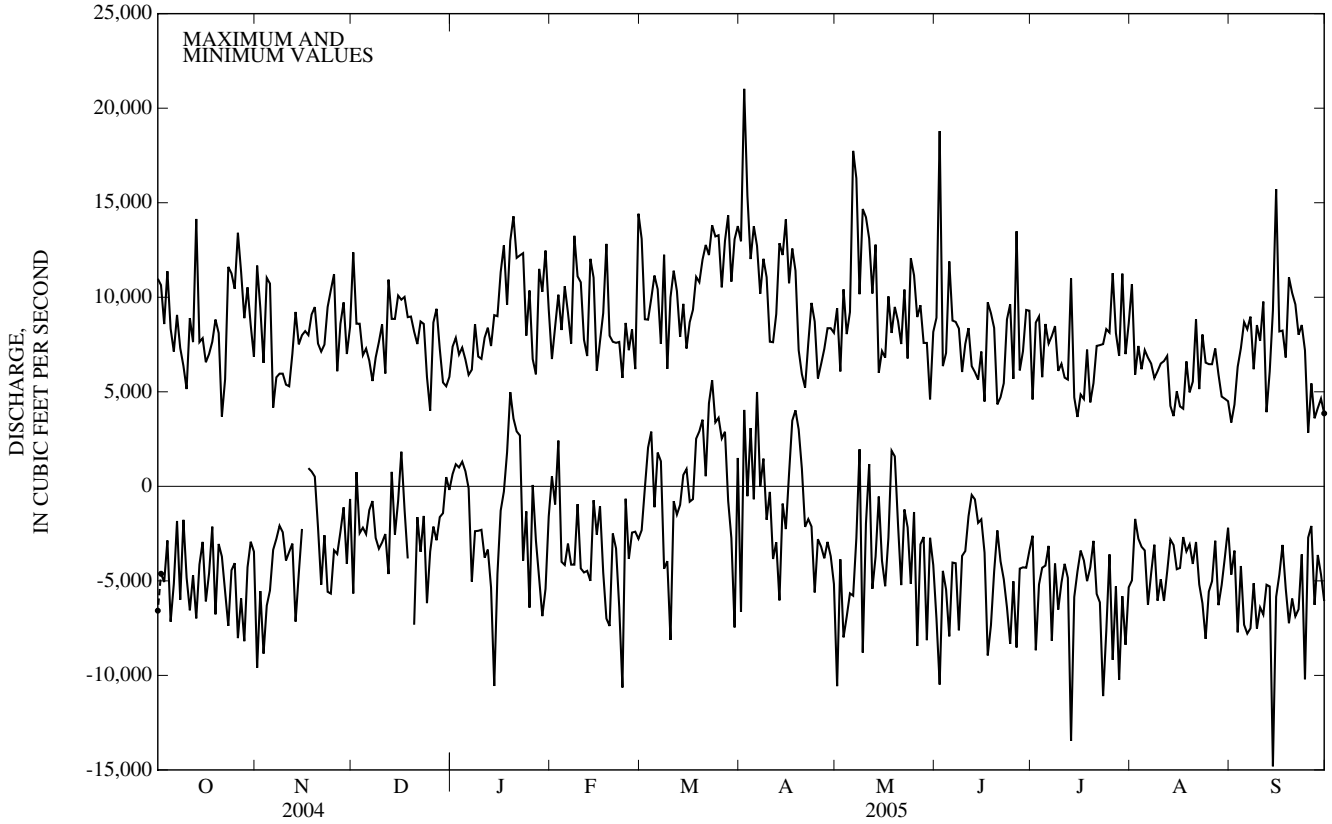
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	11,000	-6,570	11,700	-9,600	12,400	-5,670	7,390	649	6,730	528	13,100	-2,320
2	10,600	-4,620	9,420	-5,540	8,600	751	7,850	1,170	8,450	-957	8,840	-90
3	8,580	-5,060	6,530	-8,850	8,600	-2,470	6,970	998	10,100	2,420	8,810	2,050
4	11,400	-2,860	11,000	-6,310	6,940	-2,190	7,340	1,300	8,270	-3,990	9,940	2,890
5	8,340	-7,160	10,700	-5,510	7,280	-2,530	6,700	796	10,600	-4,160	11,100	-1,100
6	7,130	-5,160	4,170	-3,360	6,640	-1,260	5,900	-99	9,180	-3,030	10,400	1,790
7	9,070	-1,830	5,770	-2,780	5,570	-780	6,170	-5,040	7,550	-4,140	7,530	1,320
8	7,320	-6,000	5,960	-2,090	6,820	-2,730	8,580	-2,370	13,300	-4,140	12,300	-4,360
9	6,370	-1,770	5,960	-2,430	7,630	-3,300	6,860	-2,350	11,100	-940	6,210	-3,960
10	5,140	-4,840	5,380	-3,920	8,560	-2,970	6,740	-2,300	10,800	-4,340	10,000	-8,120
11	8,900	-6,560	5,290	-3,470	5,970	-2,520	7,870	-3,770	7,750	-4,560	11,400	-785
12	7,630	-4,700	7,020	-3,030	10,900	-4,640	8,390	-3,350	6,890	-4,470	10,300	-1,490
13	14,100	-6,980	9,220	-7,150	8,860	764	7,420	-5,350	12,000	-5,000	7,900	-980
14	7,630	-4,130	7,510	-4,610	8,860	-2,550	9,050	-10,600	11,000	-736	9,650	600
15	7,830	-2,940	7,990	-2,250	10,100	-776	9,000	-4,630	6,110	-2,560	7,290	915
16	6,560	-6,080	8,210	---	9,870	1,830	11,300	-1,280	7,680	-1,050	8,680	-813
17	7,000	-4,600	8,000	960	10,000	-1,220	12,700	-275	9,160	-4,550	9,340	-678
18	7,640	-2,130	9,090	783	8,950	-3,820	9,610	1,800	12,800	-6,990	11,100	2,520
19	8,820	-6,770	9,480	514	8,980	---	13,000	4,980	7,970	-7,390	10,800	2,910
20	8,110	-3,050	7,550	-2,180	8,180	-7,320	14,300	3,590	7,650	-2,500	12,000	3,520
21	3,690	-3,710	7,130	-5,200	7,530	-1,630	12,100	2,910	7,590	-3,280	12,800	536
22	5,670	-5,570	7,500	-2,590	8,720	-3,460	12,200	2,690	7,640	-6,400	12,200	4,390
23	11,600	-7,380	9,490	-5,580	8,590	-1,570	12,300	-3,930	5,730	-10,600	13,800	5,610
24	11,300	-4,430	10,400	-5,670	5,780	-6,180	7,970	-1,330	8,640	-655	13,200	3,380
25	10,400	-4,070	11,200	-3,380	4,000	-3,460	10,400	-6,410	7,200	-3,840	13,300	3,630
26	13,400	-8,030	6,090	-3,580	8,660	-2,130	6,730	73	8,300	-2,450	10,500	2,530
27	11,300	-5,930	8,600	-2,400	9,390	-2,850	5,920	-2,880	6,200	-2,400	13,000	2,890
28	8,890	-8,190	9,730	-1,110	7,280	-1,630	11,500	-4,860	14,400	-2,770	14,300	-775
29	10,500	-4,280	7,000	-4,110	5,490	-1,420	10,300	-6,870	---	---	10,800	-2,740
30	8,520	-2,930	8,430	-667	5,290	487	12,500	-5,420	---	---	13,100	-7,460
31	6,850	-3,460	---	---	5,790	-188	9,360	-1,590	---	---	13,800	1,500
MONTH	14,100	-8,190	11,700	---	12,400	---	14,300	-10,600	14,400	-10,600	14,300	-8,120

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	13,000	-6,640	9,420	-10,600	8,910	-6,990	4,590	-2,610	10,700	-4,980	3,380	-4,670
2	21,000	4,040	6,080	-3,860	18,800	-10,500	8,660	-8,670	5,910	-1,720	4,320	-3,400
3	15,400	-522	10,400	-7,990	6,360	-4,470	8,990	-5,190	7,420	-2,770	6,330	-7,720
4	12,000	3,080	8,050	-6,890	7,050	-5,450	5,770	-4,310	6,200	-3,200	7,310	-4,220
5	13,800	-685	9,220	-5,660	11,900	-7,940	8,590	-4,190	7,200	-3,390	8,680	-7,320
6	12,700	4,990	17,700	-5,780	8,770	-4,030	7,560	-3,150	6,810	-6,270	8,310	-7,790
7	10,200	-18	16,300	-2,740	8,700	-4,070	7,950	-8,170	6,490	-4,590	8,970	-7,510
8	12,000	1,470	10,200	1,960	8,350	-7,620	8,470	-4,090	5,730	-3,090	6,200	-5,130
9	11,100	-1,770	14,700	-8,790	6,050	-3,680	6,110	-6,520	6,090	-6,050	8,530	-7,520
10	7,650	-295	14,200	-1,960	7,530	-3,420	6,480	-5,100	6,490	-4,910	7,690	-6,410
11	7,620	-3,840	13,100	1,180	8,370	-1,580	5,750	-4,100	6,630	-6,060	9,770	-6,780
12	9,120	-2,960	10,200	-5,420	6,350	-455	5,650	-4,840	6,900	-4,510	3,920	-5,210
13	12,900	-6,030	12,800	-3,710	6,040	-692	11,000	-13,500	4,250	-2,820	6,080	-5,300
14	12,200	-914	6,000	-540	5,640	-1,930	4,700	-5,850	3,720	-3,110	9,310	-14,800
15	14,100	-2,260	7,160	-3,940	7,130	-1,740	3,670	-4,510	5,020	-4,380	15,700	-5,850
16	10,700	665	6,810	-5,280	4,490	-3,510	4,860	-3,400	4,230	-4,320	8,190	-4,670
17	12,600	3,480	10,000	-2,720	9,730	-8,940	4,620	-3,920	4,100	-2,680	8,240	-3,100
18	11,400	4,020	8,110	1,880	9,160	-7,340	7,230	-5,020	6,610	-3,440	6,810	-5,410
19	7,200	3,010	9,490	1,580	8,380	-4,510	4,440	-4,290	4,970	-3,080	11,100	-7,240
20	5,930	930	8,740	-2,010	4,330	-2,330	5,460	-2,880	5,540	-4,100	10,200	-5,940
21	5,220	-2,140	7,530	-5,220	4,710	-3,970	7,430	-5,690	8,830	-2,940	9,620	-6,870
22	7,570	-1,740	10,400	-1,230	5,450	-4,910	7,470	-6,140	5,140	-5,190	8,020	-6,500
23	9,700	-2,130	6,760	-2,170	8,830	-6,410	7,520	-11,100	8,030	-6,180	8,530	-3,600
24	8,710	-5,610	12,100	-5,160	9,620	-8,330	8,320	-7,630	6,540	-8,070	7,190	-10,200
25	5,710	-2,790	11,200	-1,360	5,690	-5,020	8,130	-3,600	6,460	-5,560	2,830	-2,710
26	6,460	-3,190	8,950	-8,450	13,500	-8,520	11,300	-9,180	6,460	-5,020	5,440	-2,100
27	7,270	-3,810	9,580	-3,070	6,130	-4,350	8,100	-5,290	7,290	-2,880	3,600	-6,270
28	8,360	-2,940	7,580	-2,680	7,140	-4,290	6,900	-10,200	5,930	-6,280	4,140	-3,630
29	8,360	-3,690	7,580	-8,140	9,330	-4,310	11,200	-5,810	4,750	-5,220	4,640	-4,660
30	8,120	-5,170	4,600	-2,720	9,290	-3,400	6,990	-8,380	4,630	-3,760	3,860	-6,060
31	---	---	8,170	-4,170	---	---	8,620	-5,340	4,500	-2,190	---	---
MONTH	21,000	-6,640	17,700	-10,600	18,800	-10,500	11,300	-13,500	10,700	-8,070	15,700	-14,800



02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962 to 1967, 1999 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): April 1999 to current year.
pH (TOP AND BOTTOM): April 1999 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): April 1999 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): April 1999 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): April 1999 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from April 1999 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000. Daily records of salinity and water temperature for October 1961 to September 1967 are available in the files of the USGS Water Science Center, Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	14.4, January 3, 2002	<0.1, on many days during the period
SALINITY (BOTTOM), ppt	15.1, October 24, 2002	<0.1, on many days during the period
pH (TOP), standard units	9.1, July 19, 20, 1999	5.4, August 19, 2001
pH (BOTTOM), standard units	8.8, July 2, 3, 4, 1999, September 8, 11, 2005	5.3, September 11, 12, 13, 1999
WATER TEMPERATURE (TOP), °C	34.1, July 31, 1999	0.4, January 24, 2003
WATER TEMPERATURE (BOTTOM), °C	32.6, July 31, 1999	0.5, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	15.3, November 22, 2001	<1.0 on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	13.6, January 23, 2005	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	6.1, February 4	0.03, on many days during the year
SALINITY (BOTTOM), ppt	9.0, January 10, 11	0.03, on many days during the year
pH (TOP), standard units	8.9, September 3, 8	6.2, May 9
pH (BOTTOM), standard units	8.8, September 8, 11	6.1, January 22
WATER TEMPERATURE (TOP), °C	33.6, July 27	1.3, January 24
WATER TEMPERATURE (BOTTOM), °C	31.8, July 29	1.6, January 24
DISSOLVED OXYGEN (TOP), mg/L	12.6, January 30	1.1, September 19
DISSOLVED OXYGEN (BOTTOM), mg/L	13.6, January 23	0.1, September 19
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	150, July 16	14, November 9, September 19
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	120, September 8	1, September 19

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	0.04	0.04	0.04	4.2	0.40	1.6	0.04	0.04	0.04	0.09	0.05	0.05
2	0.04	0.04	0.04	1.9	0.12	0.85	0.04	0.04	0.04	0.06	0.05	0.05
3	0.05	0.04	0.04	2.4	0.06	0.80	0.04	0.04	0.04	0.06	0.05	0.05
4	0.05	0.05	0.05	1.9	0.16	1.0	0.04	0.04	0.04	0.11	0.05	0.06
5	0.05	0.05	0.05	1.2	0.05	0.45	0.06	0.04	0.04	0.19	0.05	0.09
6	0.05	0.05	0.05	2.0	0.22	0.49	0.05	0.04	0.04	0.21	0.06	0.11
7	0.05	0.04	0.05	2.0	0.21	0.58	0.05	0.04	0.04	1.8	0.05	0.32
8	0.05	0.04	0.04	2.0	0.13	0.80	0.22	0.04	0.06	1.1	0.09	0.25
9	0.05	0.04	0.05	5.6	0.19	2.7	0.37	0.04	0.07	1.9	0.17	0.58
10	0.05	0.05	0.05	5.7	0.30	2.4	0.32	0.04	0.06	2.4	0.15	0.33
11	0.05	0.05	0.05	3.5	0.37	1.1	0.07	0.04	0.04	5.8	0.38	1.9
12	0.05	0.05	0.05	2.7	0.22	1.00	0.43	0.04	0.11	1.6	0.15	0.71
13	0.05	0.05	0.05	1.7	0.05	0.41	0.07	0.04	0.05	1.2	0.06	0.50
14	0.05	0.05	0.05	2.9	0.06	0.70	0.38	0.04	0.07	0.42	0.05	0.11
15	0.05	0.05	0.05	1.6	0.05	0.28	0.04	0.03	0.04	0.32	0.04	0.07
16	0.05	0.05	0.05	0.18	0.05	0.07	0.03	0.03	0.03	0.06	0.04	0.05
17	0.05	0.05	0.05	0.09	0.05	0.06	0.09	0.03	0.04	0.04	0.04	0.04
18	0.05	0.04	0.05	0.19	0.04	0.06	0.36	0.03	0.07	0.04	0.03	0.03
19	0.04	0.04	0.04	0.13	0.04	0.05	0.74	0.04	0.10	0.03	0.03	0.03
20	0.04	0.04	0.04	0.45	0.04	0.11	0.64	0.04	0.12	0.03	0.03	0.03
21	3.4	0.04	0.65	2.7	0.04	0.51	0.33	0.04	0.08	0.03	0.03	0.03
22	5.7	0.18	2.3	1.4	0.05	0.41	0.06	0.04	0.04	0.03	0.03	0.03
23	5.9	0.63	2.6	1.0	0.04	0.37	0.04	0.04	0.04	0.15	0.03	0.05
24	5.7	0.31	2.0	0.69	0.04	0.18	0.05	0.04	0.04	0.07	0.03	0.04
25	3.9	0.23	1.2	0.18	0.04	0.06	0.87	0.04	0.17	0.29	0.03	0.08
26	5.1	0.06	1.9	0.29	0.04	0.10	2.0	0.05	0.30	0.04	0.04	0.04
27	4.7	0.05	1.4	0.12	0.04	0.05	1.9	0.05	0.36	2.7	0.04	0.34
28	4.7	0.21	2.2	0.08	0.04	0.05	0.53	0.05	0.16	5.8	0.14	1.8
29	3.0	0.10	0.84	0.54	0.04	0.10	0.33	0.05	0.07	3.2	0.13	0.98
30	1.8	0.07	0.53	0.09	0.04	0.05	0.08	0.04	0.05	1.1	0.04	0.17
31	2.2	0.07	0.62	---	---	---	0.11	0.05	0.06	2.5	0.04	0.52
MONTH	5.9	0.04	0.55	5.7	0.04	0.58	2.0	0.03	0.08	5.8	0.03	0.30
		FEBRUARY			MARCH			APRIL			MAY	
1	0.60	0.06	0.13	0.06	0.04	0.05	0.04	0.03	0.04	0.05	0.05	0.05
2	4.3	0.06	0.62	0.05	0.04	0.04	0.04	0.03	0.03	0.05	0.05	0.05
3	0.30	0.05	0.07	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.05	0.05
4	6.1	0.05	1.0	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.05	0.05
5	5.6	0.28	1.7	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.05	0.05
6	4.8	0.16	0.86	0.04	0.04	0.04	0.03	0.03	0.03	0.06	0.05	0.05
7	1.2	0.12	0.25	0.05	0.04	0.04	0.04	0.03	0.03	0.05	0.04	0.05
8	1.4	0.04	0.18	0.05	0.04	0.04	0.04	0.03	0.04	0.05	0.04	0.04
9	0.08	0.04	0.05	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
10	0.36	0.04	0.09	0.64	0.04	0.08	0.04	0.04	0.04	0.04	0.04	0.04
11	1.1	0.04	0.31	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
12	0.87	0.05	0.17	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
13	0.88	0.05	0.22	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
14	0.07	0.04	0.05	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
15	0.08	0.04	0.05	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
16	0.36	0.05	0.06	0.04	0.03	0.03	0.04	0.03	0.04	0.05	0.04	0.04
17	1.8	0.09	0.28	0.04	0.03	0.03	0.04	0.03	0.04	0.05	0.04	0.05
18	2.8	0.05	0.65	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
19	2.2	0.05	0.53	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
20	0.56	0.05	0.16	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
21	0.47	0.05	0.10	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
22	1.3	0.06	0.40	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
23	1.1	0.05	0.40	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
24	0.52	0.05	0.16	0.04	0.03	0.03	0.05	0.04	0.04	0.04	0.04	0.04
25	1.4	0.05	0.23	0.04	0.03	0.03	0.05	0.04	0.05	0.04	0.04	0.04
26	0.80	0.05	0.13	0.04	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.04
27	1.5	0.05	0.28	0.04	0.03	0.03	0.05	0.04	0.05	0.04	0.04	0.04
28	0.76	0.04	0.15	0.04	0.03	0.03	0.05	0.05	0.05	0.04	0.04	0.04
29	---	---	---	0.04	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.04
30	---	---	---	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04
31	---	---	---	0.04	0.03	0.04	---	---	---	0.05	0.04	0.04
MONTH	6.1	0.04	0.33	0.64	0.03	0.04	0.05	0.03	0.04	0.06	0.04	0.04

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	0.04	0.04	0.04	0.06	0.05	0.06	0.20	0.05	0.06	0.38	0.06	0.19
2	0.20	0.04	0.07	0.06	0.05	0.05	0.05	0.04	0.05	0.55	0.11	0.26
3	0.05	0.04	0.04	0.06	0.05	0.05	0.06	0.04	0.05	1.3	0.06	0.52
4	0.05	0.04	0.05	0.06	0.05	0.05	0.24	0.04	0.07	1.4	0.37	0.77
5	0.06	0.05	0.05	0.06	0.05	0.05	0.10	0.04	0.05	1.8	0.38	1.1
6	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.04	0.05	1.8	0.95	1.4
7	0.05	0.05	0.05	0.06	0.05	0.06	0.07	0.04	0.05	1.6	0.76	1.2
8	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.04	0.05	1.9	0.55	1.0
9	0.05	0.05	0.05	0.06	0.05	0.06	0.05	0.04	0.05	1.9	0.53	0.99
10	0.05	0.05	0.05	0.06	0.05	0.06	0.05	0.05	0.05	2.1	0.73	1.4
11	0.05	0.05	0.05	0.06	0.05	0.06	0.05	0.05	0.05	2.6	1.3	1.9
12	0.05	0.04	0.05	0.06	0.05	0.06	0.06	0.05	0.05	1.9	0.99	1.3
13	0.04	0.04	0.04	0.08	0.05	0.06	0.06	0.05	0.05	1.5	0.99	1.2
14	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.05	0.05	2.7	1.1	2.0
15	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.05	0.05	2.6	1.1	2.1
16	0.05	0.04	0.04	0.06	0.05	0.06	0.12	0.05	0.07	1.4	0.47	0.85
17	0.63	0.04	0.24	0.06	0.05	0.06	0.05	0.05	0.05	---	---	---
18	0.86	0.05	0.40	0.06	0.06	0.06	0.06	0.05	0.05	1.0	0.29	0.54
19	0.95	0.11	0.51	0.06	0.06	0.06	0.06	0.05	0.05	1.3	0.31	0.95
20	0.54	0.10	0.27	0.16	0.06	0.07	0.06	0.05	0.05	1.0	0.29	0.67
21	0.59	0.05	0.11	1.2	0.07	0.34	0.06	0.05	0.06	1.1	0.15	0.50
22	0.40	0.05	0.16	0.71	0.06	0.38	0.07	0.05	0.06	0.78	0.27	0.49
23	0.96	0.09	0.60	1.2	0.06	0.40	0.54	0.05	0.17	0.65	0.18	0.34
24	0.80	0.19	0.54	1.1	0.06	0.45	0.90	0.05	0.39	0.97	0.16	0.47
25	0.56	0.24	0.40	1.2	0.07	0.30	0.71	0.29	0.44	0.92	0.56	0.66
26	0.75	0.08	0.32	0.93	0.07	0.38	0.61	0.08	0.25	0.82	0.22	0.36
27	0.39	0.13	0.27	1.4	0.04	0.48	0.50	0.07	0.19	0.83	0.09	0.36
28	0.23	0.07	0.13	1.8	0.07	0.73	0.40	0.08	0.15	0.76	0.40	0.58
29	0.10	0.05	0.07	1.6	0.07	0.57	0.31	0.07	0.17	0.74	0.18	0.39
30	0.06	0.06	0.06	0.59	0.05	0.10	0.22	0.06	0.12	1.1	0.56	0.80
31	---	---	---	0.45	0.05	0.11	0.11	0.06	0.07	---	---	---
MONTH	0.96	0.04	0.16	1.8	0.04	0.17	0.90	0.04	0.10	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	0.04	0.04	0.04	6.6	2.2	5.5	0.04	0.04	0.04	5.5	0.24	3.3
2	0.04	0.04	0.04	4.3	0.70	2.1	0.04	0.04	0.04	5.9	0.46	3.9
3	0.05	0.04	0.04	5.1	0.17	3.4	0.13	0.04	0.04	6.0	0.27	3.8
4	0.05	0.05	0.05	4.0	0.27	2.1	0.04	0.04	0.04	6.5	0.69	4.3
5	0.05	0.05	0.05	2.2	0.06	0.99	0.40	0.04	0.09	7.1	2.7	6.4
6	0.05	0.05	0.05	5.4	1.8	3.7	1.2	0.04	0.29	7.4	6.2	7.2
7	0.05	0.04	0.05	5.2	2.4	4.4	1.6	0.04	0.27	7.8	6.7	7.4
8	0.05	0.04	0.04	5.1	3.6	4.9	1.6	0.04	0.40	8.8	1.5	7.1
9	0.05	0.04	0.04	6.7	3.3	5.9	5.2	0.10	2.2	8.8	6.2	8.2
10	0.05	0.04	0.04	6.7	5.5	6.4	3.1	0.04	0.68	9.0	8.5	8.8
11	0.05	0.04	0.04	6.2	4.1	5.8	0.85	0.04	0.12	9.0	3.0	8.0
12	0.07	0.04	0.05	5.6	1.2	4.7	6.1	0.04	2.2	8.1	0.90	6.6
13	0.05	0.04	0.05	4.2	0.05	1.8	5.9	0.04	1.6	7.3	0.24	3.7
14	0.04	0.04	0.04	3.8	1.1	3.0	5.6	0.04	1.7	1.2	0.05	0.26
15	0.05	0.04	0.04	4.3	0.83	3.1	3.3	0.03	0.51	1.1	0.05	0.17
16	0.05	0.04	0.04	4.5	0.70	3.4	0.05	0.03	0.03	4.7	0.04	0.86
17	0.05	0.04	0.04	4.8	0.44	2.9	3.3	0.03	0.45	0.04	0.04	0.04
18	0.04	0.04	0.04	5.1	0.40	2.8	4.5	0.03	1.8	0.04	0.03	0.04
19	0.04	0.03	0.04	5.4	0.15	2.9	4.8	0.08	2.3	0.03	0.03	0.03
20	0.04	0.03	0.03	6.4	1.0	5.3	2.7	0.04	0.32	0.03	0.03	0.03
21	4.9	0.03	2.9	6.6	1.0	5.5	0.81	0.04	0.21	0.07	0.03	0.03
22	6.2	3.8	5.3	6.6	1.3	4.8	1.5	0.04	0.12	3.6	0.03	0.17
23	6.7	1.4	5.0	6.3	0.54	3.4	0.04	0.04	0.04	0.27	0.03	0.06
24	6.7	2.2	5.1	5.8	0.24	3.5	0.05	0.04	0.04	1.6	0.04	0.20
25	6.0	1.4	4.8	2.9	0.04	0.45	3.8	0.04	2.4	2.2	0.04	0.44
26	6.4	0.33	4.3	0.35	0.04	0.15	4.4	0.47	3.0	3.3	0.04	0.25
27	6.5	0.40	4.6	3.7	0.04	1.7	4.5	1.4	3.5	5.9	3.2	5.0
28	6.3	1.3	4.9	3.5	0.04	1.0	4.0	0.30	3.1	6.7	2.4	6.0
29	5.6	0.64	4.1	3.6	0.19	2.1	3.9	0.27	2.2	5.7	1.5	4.5
30	5.6	0.56	4.0	4.0	0.04	1.7	4.9	0.80	3.6	5.5	0.04	2.4
31	5.9	0.81	4.7	---	---	---	5.4	0.33	4.6	5.1	0.73	4.2
MONTH	6.7	0.03	1.6	6.7	0.04	3.3	6.1	0.03	1.2	9.0	0.03	3.3
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	1.0	4.1	1.9	0.04	0.22	0.04	0.03	0.03	0.05	0.05	0.05
2	6.6	1.6	5.5	0.05	0.04	0.04	0.04	0.03	0.03	0.05	0.05	0.05
3	6.7	0.53	4.8	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.05	0.05
4	8.1	1.9	6.8	0.04	0.04	0.04	0.04	0.03	0.03	0.05	0.05	0.05
5	7.8	5.1	7.4	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.05	0.05
6	8.1	3.0	7.5	0.04	0.04	0.04	0.03	0.03	0.03	0.10	0.05	0.05
7	8.2	7.1	7.9	6.0	0.04	0.85	0.04	0.03	0.03	0.05	0.04	0.05
8	8.0	0.04	1.9	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04
9	6.7	0.04	2.3	0.06	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04
10	6.0	0.04	1.6	3.4	0.04	0.39	0.04	0.04	0.04	0.04	0.03	0.04
11	3.7	0.04	2.0	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
12	4.3	0.16	1.9	0.05	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
13	6.7	0.52	3.7	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
14	3.0	0.04	0.59	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
15	5.8	0.04	2.7	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
16	6.2	0.66	4.2	0.04	0.03	0.03	0.04	0.03	0.04	0.05	0.04	0.04
17	6.0	2.0	5.3	0.04	0.03	0.04	0.04	0.03	0.04	0.05	0.04	0.04
18	6.3	0.05	2.9	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
19	4.8	0.39	2.6	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
20	4.6	0.45	2.8	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04
21	4.8	0.46	3.9	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
22	4.6	1.6	3.9	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
23	3.9	0.46	2.2	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04
24	1.9	0.05	0.70	0.04	0.03	0.03	0.05	0.04	0.04	0.04	0.04	0.04
25	2.3	0.05	1.4	0.04	0.03	0.03	0.05	0.04	0.05	0.04	0.04	0.04
26	3.7	0.28	2.2	0.04	0.03	0.03	0.05	0.04	0.05	0.04	0.04	0.04
27	4.3	0.96	3.7	0.03	0.03	0.03	0.05	0.04	0.05	0.04	0.04	0.04
28	4.0	0.04	1.3	0.04	0.03	0.03	0.05	0.05	0.05	0.04	0.04	0.04
29	---	---	---	0.04	0.03	0.04	0.05	0.05	0.05	0.04	0.04	0.04
30	---	---	---	0.04	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.04
31	---	---	---	0.04	0.03	0.04	---	---	---	0.04	0.04	0.04
MONTH	8.2	0.04	3.5	6.0	0.03	0.08	0.05	0.03	0.04	0.10	0.03	0.04

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	0.05	0.04	0.04	0.06	0.05	0.06	0.87	0.05	0.12	0.56	0.05	0.28
2	0.21	0.04	0.07	0.06	0.05	0.05	2.4	0.04	0.26	1.1	0.24	0.56
3	0.05	0.04	0.04	0.05	0.05	0.05	2.1	0.04	0.38	1.5	0.09	0.99
4	0.05	0.04	0.05	0.05	0.05	0.05	1.0	0.04	0.33	1.7	0.46	1.1
5	0.06	0.05	0.05	0.05	0.05	0.05	0.39	0.04	0.08	1.9	0.59	1.3
6	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.04	0.05	1.9	1.0	1.5
7	0.05	0.05	0.05	0.06	0.04	0.05	0.07	0.04	0.05	1.8	0.94	1.3
8	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.04	0.05	2.0	0.79	1.3
9	0.05	0.04	0.05	0.06	0.05	0.06	0.05	0.04	0.05	2.1	0.81	1.4
10	0.05	0.04	0.05	0.06	0.05	0.06	0.05	0.04	0.05	2.2	0.98	1.5
11	0.05	0.04	0.05	0.06	0.05	0.06	0.05	0.05	0.05	2.7	1.5	2.2
12	0.05	0.04	0.04	0.06	0.05	0.06	0.05	0.05	0.05	2.4	1.3	1.7
13	0.04	0.04	0.04	0.09	0.06	0.06	0.05	0.05	0.05	2.3	1.2	1.7
14	0.04	0.04	0.04	0.06	0.06	0.06	0.06	0.05	0.05	2.8	1.3	2.1
15	1.6	0.04	0.06	0.06	0.06	0.06	0.06	0.05	0.05	2.6	1.4	2.3
16	0.61	0.04	0.05	0.06	0.06	0.06	0.15	0.05	0.07	2.0	0.82	1.2
17	1.7	0.12	0.76	0.06	0.06	0.06	0.05	0.05	0.05	---	---	---
18	2.8	0.23	1.6	0.06	0.06	0.06	0.05	0.05	0.05	2.6	0.98	2.3
19	1.0	0.26	0.62	0.06	0.06	0.06	0.06	0.05	0.05	2.4	0.90	1.4
20	0.97	0.18	0.51	1.8	0.06	0.43	0.06	0.05	0.06	1.6	0.31	0.81
21	1.0	0.05	0.33	2.5	0.26	1.7	0.06	0.05	0.05	1.1	0.16	0.58
22	1.5	0.10	0.86	2.2	0.06	1.1	0.10	0.05	0.06	0.97	0.28	0.55
23	1.6	0.66	1.2	3.0	0.06	1.2	1.6	0.05	0.52	1.1	0.22	0.47
24	0.91	0.33	0.59	4.6	0.35	2.7	1.5	0.05	0.74	1.4	0.15	0.74
25	0.57	0.27	0.41	4.9	1.2	4.2	1.2	0.36	0.59	1.7	0.59	1.1
26	0.79	0.07	0.35	4.1	0.15	2.1	0.83	0.12	0.33	1.3	0.35	0.54
27	0.48	0.16	0.28	3.9	0.23	2.2	0.68	0.08	0.22	1.2	0.09	0.60
28	0.26	0.07	0.14	3.6	0.50	2.1	0.52	0.08	0.18	1.2	0.55	0.89
29	0.10	0.05	0.07	2.5	0.07	0.88	0.45	0.08	0.22	1.4	0.35	0.57
30	0.07	0.06	0.06	1.1	0.05	0.27	0.76	0.06	0.23	1.5	0.79	1.1
31	---	---	---	0.94	0.05	0.19	0.27	0.05	0.09	---	---	---
MONTH	2.8	0.04	0.29	4.9	0.04	0.65	2.4	0.04	0.17	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.7	6.8	7.0	6.6	6.8	7.0	6.8	6.9	7.0	6.8	6.8
2	6.8	6.6	6.7	6.8	6.7	6.8	7.0	6.9	7.0	6.8	6.7	6.8
3	6.9	6.6	6.6	6.9	6.7	6.8	7.1	7.0	7.0	6.8	6.7	6.8
4	6.8	6.7	6.7	6.8	6.4	6.6	7.0	7.0	7.0	6.8	6.7	6.7
5	6.9	6.7	6.7	6.8	6.4	6.6	7.0	6.9	7.0	6.8	6.7	6.7
6	6.9	6.8	6.8	6.7	6.5	6.6	7.0	6.9	7.0	6.8	6.7	6.8
7	6.9	6.8	6.8	6.7	6.5	6.6	7.0	6.9	7.0	6.9	6.7	6.8
8	7.0	6.8	6.8	6.8	6.5	6.6	7.0	7.0	7.0	6.9	6.7	6.8
9	6.9	6.8	6.8	6.8	6.5	6.6	7.0	6.9	7.0	6.9	6.7	6.8
10	7.0	6.8	6.9	6.8	6.5	6.7	7.0	6.9	7.0	6.8	6.7	6.8
11	7.1	6.8	7.0	6.9	6.6	6.8	7.0	6.8	6.9	7.0	6.7	6.8
12	7.1	6.9	7.0	6.9	6.6	6.8	6.9	6.8	6.8	6.9	6.7	6.8
13	7.3	6.9	7.0	6.9	6.8	6.8	7.0	6.9	6.9	6.9	6.7	6.8
14	7.0	6.8	6.9	7.0	6.6	6.8	7.0	6.9	6.9	7.0	6.8	6.9
15	6.9	6.8	6.9	6.8	6.6	6.7	7.0	7.0	7.0	7.0	6.8	6.8
16	6.9	6.7	6.8	6.6	6.5	6.6	7.0	6.8	6.9	6.8	6.6	6.7
17	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.8	6.8	6.7	6.6	6.6
18	6.9	6.9	6.9	6.7	6.6	6.7	6.8	6.7	6.8	6.7	6.6	6.7
19	7.0	6.9	6.9	6.7	6.6	6.6	6.9	6.7	6.8	6.6	6.6	6.6
20	6.9	6.9	6.9	6.7	6.6	6.6	7.2	6.8	6.9	6.6	6.6	6.6
21	7.0	6.8	6.9	6.8	6.5	6.6	7.2	6.9	7.0	6.6	6.4	6.5
22	7.1	6.7	6.9	6.8	6.6	6.7	7.0	6.9	6.9	6.4	6.4	6.4
23	7.0	6.8	6.9	6.7	6.6	6.7	7.0	6.9	6.9	6.8	6.4	6.5
24	7.0	6.8	6.9	6.7	6.6	6.6	7.0	6.9	7.0	6.7	6.6	6.6
25	7.0	6.8	6.9	6.7	6.6	6.6	7.1	6.9	7.0	6.9	6.5	6.6
26	7.0	6.8	6.9	6.9	6.6	6.8	7.2	6.9	7.0	6.6	6.6	6.6
27	6.9	6.7	6.8	6.7	6.7	6.7	7.2	6.9	7.0	7.0	6.6	6.7
28	7.1	6.7	6.9	6.8	6.7	6.7	7.1	6.9	7.0	7.4	6.7	7.0
29	7.0	6.7	6.8	6.9	6.7	6.8	7.0	6.9	7.0	7.2	6.7	6.9
30	6.8	6.6	6.7	6.8	6.8	6.8	7.0	7.0	7.0	6.9	6.6	6.7
31	6.8	6.7	6.7	---	---	---	7.0	6.9	7.0	7.1	6.7	6.8
MONTH	7.3	6.6	6.8	7.0	6.4	6.7	7.2	6.7	6.9	7.4	6.4	6.7
		FEBRUARY			MARCH			APRIL			MAY	
1	6.8	6.7	6.8	6.8	6.7	6.8	6.7	6.5	6.6	7.1	6.9	7.0
2	7.1	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.6	7.0	6.8	6.9
3	6.8	6.6	6.7	6.8	6.7	6.7	6.6	6.6	6.6	7.2	6.8	6.9
4	7.2	6.7	6.9	6.8	6.7	6.8	6.6	6.5	6.5	7.2	6.9	7.0
5	7.3	6.8	7.0	6.8	6.7	6.8	6.6	6.4	6.5	7.4	6.8	7.0
6	7.2	6.8	6.9	6.7	6.7	6.7	6.7	6.5	6.6	7.2	6.8	6.9
7	6.9	6.8	6.8	6.7	6.6	6.6	6.8	6.7	6.7	6.8	6.6	6.7
8	7.0	6.6	6.7	6.8	6.6	6.7	6.7	6.6	6.7	6.6	6.3	6.4
9	6.7	6.6	6.7	6.8	6.8	6.8	6.8	6.6	6.6	6.3	6.2	6.3
10	6.9	6.7	6.8	7.0	6.8	6.8	6.7	6.6	6.7	6.6	6.3	6.4
11	7.1	6.7	6.9	6.9	6.8	6.8	6.7	6.6	6.7	6.8	6.6	6.7
12	7.1	6.8	6.9	7.0	6.8	6.9	6.8	6.6	6.7	7.2	6.7	6.9
13	7.1	6.7	6.8	6.9	6.8	6.8	6.8	6.7	6.8	7.2	7.0	7.1
14	6.8	6.7	6.7	6.9	6.8	6.8	6.8	6.6	6.8	7.3	7.1	7.2
15	6.8	6.7	6.7	6.8	6.7	6.7	6.7	6.6	6.6	7.3	7.2	7.2
16	6.8	6.7	6.7	6.8	6.7	6.7	6.6	6.5	6.6	7.2	7.0	7.1
17	7.0	6.7	6.8	6.8	6.7	6.8	6.6	6.6	6.6	7.0	6.8	6.9
18	7.1	6.8	6.9	6.7	6.6	6.7	6.6	6.5	6.6	6.9	6.7	6.8
19	7.1	6.8	6.9	6.6	6.5	6.6	6.6	6.6	6.6	6.8	6.6	6.7
20	7.1	6.8	6.9	6.6	6.5	6.6	6.6	6.4	6.5	6.7	6.6	6.7
21	7.0	6.8	6.8	6.6	6.5	6.6	6.6	6.5	6.5	6.8	6.6	6.7
22	7.0	6.8	6.9	6.6	6.6	6.6	6.6	6.5	6.6	6.8	6.7	6.7
23	7.1	6.8	6.9	6.6	6.5	6.6	6.7	6.6	6.6	6.7	6.7	6.7
24	7.0	6.8	6.9	6.6	6.4	6.5	6.8	6.6	6.7	6.7	6.6	6.7
25	7.1	6.8	6.9	6.5	6.4	6.5	6.9	6.8	6.8	6.8	6.7	6.7
26	7.0	6.8	6.8	6.5	6.4	6.5	6.9	6.8	6.9	6.9	6.8	6.8
27	7.2	6.8	6.9	6.6	6.4	6.5	6.9	6.8	6.8	6.9	6.8	6.8
28	7.1	6.7	6.9	6.6	6.5	6.6	7.0	6.8	6.9	6.8	6.8	6.8
29	---	---	---	6.6	6.5	6.6	7.0	6.8	6.9	6.8	6.8	6.8
30	---	---	---	6.6	6.4	6.5	7.0	6.8	6.9	6.9	6.8	6.8
31	---	---	---	6.6	6.5	6.6	---	---	---	7.2	6.8	6.9
MONTH	7.3	6.6	6.8	7.0	6.4	6.7	7.0	6.4	6.7	7.4	6.2	6.8

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	6.8	6.9	7.0	6.7	6.8	6.8	6.6	6.7	8.6	6.9	7.3
2	7.3	6.7	7.0	6.9	6.6	6.7	6.6	6.4	6.5	8.7	7.0	7.4
3	6.7	6.6	6.6	7.0	6.6	6.7	6.6	6.3	6.4	8.9	6.8	7.7
4	6.7	6.6	6.6	7.6	6.6	6.8	6.5	6.3	6.4	8.8	7.2	7.9
5	6.8	6.7	6.7	8.0	6.6	6.9	7.0	6.3	6.5	8.8	7.4	8.0
6	6.9	6.7	6.7	7.2	6.6	6.7	7.4	6.6	6.8	8.8	7.9	8.3
7	6.9	6.8	6.8	7.4	6.7	6.9	7.0	6.6	6.8	8.6	7.4	8.1
8	7.1	6.8	6.9	7.2	6.8	7.0	6.7	6.5	6.6	8.9	7.2	7.8
9	6.9	6.7	6.8	8.3	6.9	7.2	6.8	6.5	6.6	8.6	7.1	7.6
10	6.9	6.7	6.8	8.7	7.0	7.3	6.9	6.5	6.6	8.6	7.2	7.8
11	6.8	6.7	6.7	8.4	7.0	7.3	7.1	6.6	6.7	8.7	7.7	8.1
12	6.9	6.7	6.8	7.5	7.0	7.1	7.7	6.6	6.9	8.0	7.1	7.5
13	6.8	6.7	6.8	7.2	6.8	7.0	7.7	6.7	6.9	7.8	7.1	7.3
14	6.9	6.7	6.7	7.0	6.7	6.8	7.4	6.8	7.0	8.2	7.3	7.7
15	6.9	6.7	6.8	8.2	6.7	7.2	7.1	6.7	6.9	7.6	6.7	7.3
16	7.0	6.7	6.9	8.8	6.9	7.5	7.5	6.7	6.9	6.9	6.6	6.7
17	7.0	6.8	6.9	8.4	6.9	7.4	7.2	6.7	6.9	---	---	---
18	7.2	6.8	6.9	8.6	6.9	7.5	7.5	6.6	6.8	6.8	6.5	6.6
19	7.3	6.8	7.0	8.2	7.1	7.5	7.0	6.6	6.8	7.6	6.5	6.9
20	7.2	6.9	7.0	8.6	7.0	7.7	7.1	6.6	6.8	7.2	6.7	6.9
21	7.2	6.8	7.0	8.3	6.8	7.5	7.3	6.6	6.8	7.2	6.7	6.9
22	7.4	6.8	7.0	8.4	7.0	7.4	7.3	6.6	6.8	7.4	6.8	6.9
23	8.2	7.0	7.2	7.4	6.9	7.1	7.2	6.6	6.9	7.2	6.7	6.9
24	8.2	7.0	7.4	7.4	6.9	7.0	7.8	6.7	7.0	7.2	6.8	6.9
25	7.8	7.2	7.4	8.2	6.9	7.1	7.9	6.8	7.1	7.3	6.9	7.0
26	7.5	7.0	7.2	8.0	6.8	7.1	7.5	6.9	7.1	7.2	6.9	7.0
27	8.3	7.0	7.4	8.2	6.9	7.2	7.4	6.8	7.1	7.6	6.7	7.0
28	7.5	7.0	7.1	7.5	6.8	7.1	8.1	6.8	7.2	7.6	6.9	7.2
29	7.0	6.8	6.9	7.4	6.9	7.1	8.3	6.9	7.4	7.4	7.0	7.1
30	6.8	6.7	6.8	6.9	6.7	6.8	8.3	6.8	7.2	7.2	7.0	7.1
31	---	---	---	6.9	6.7	6.7	7.5	6.9	7.1	---	---	---
MONTH	8.3	6.6	6.9	8.8	6.6	7.1	8.3	6.3	6.8	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	6.7	6.8	6.7	6.6	6.6	7.0	6.8	6.9	7.1	6.6	6.9
2	6.7	6.6	6.7	6.7	6.6	6.6	7.0	6.9	7.0	7.0	6.7	6.9
3	6.8	6.6	6.6	6.7	6.6	6.6	7.1	7.0	7.0	7.0	6.6	6.8
4	6.8	6.7	6.7	6.8	6.5	6.6	7.0	7.0	7.0	6.8	6.6	6.8
5	6.9	6.7	6.7	6.9	6.6	6.8	7.0	6.9	7.0	6.8	6.7	6.8
6	6.9	6.8	6.8	6.8	6.7	6.8	7.0	6.9	6.9	6.8	6.7	6.8
7	6.9	6.6	6.7	6.8	6.6	6.7	7.0	6.8	6.9	6.8	6.8	6.8
8	6.8	6.6	6.7	6.6	6.5	6.6	6.9	6.8	6.9	6.8	6.7	6.8
9	6.8	6.7	6.7	6.6	6.5	6.6	6.9	6.6	6.8	6.8	6.8	6.8
10	6.8	6.7	6.7	6.6	6.5	6.5	6.9	6.7	6.9	6.8	6.7	6.8
11	6.9	6.7	6.8	6.6	6.5	6.5	6.9	6.8	6.9	6.7	6.6	6.6
12	6.9	6.7	6.8	6.8	6.5	6.6	6.9	6.6	6.8	6.7	6.6	6.6
13	7.0	6.8	6.9	7.1	6.6	6.8	6.9	6.8	6.9	6.8	6.5	6.6
14	6.9	6.7	6.8	7.0	6.8	6.9	7.0	6.6	6.9	6.9	6.6	6.7
15	6.8	6.7	6.7	7.0	6.8	6.9	7.1	6.8	7.0	6.9	6.6	6.7
16	6.8	6.6	6.7	7.0	6.8	6.9	7.0	6.8	6.9	6.9	6.4	6.6
17	6.8	6.7	6.7	7.0	6.7	6.9	6.9	6.7	6.8	6.5	6.4	6.4
18	6.8	6.7	6.8	7.0	6.7	6.9	6.9	6.6	6.8	6.5	6.5	6.5
19	6.8	6.8	6.8	7.0	6.7	6.8	6.9	6.6	6.8	6.5	6.4	6.4
20	6.8	6.7	6.8	6.9	6.7	6.8	7.0	6.5	6.8	6.4	6.3	6.4
21	6.8	6.6	6.6	6.8	6.6	6.7	7.0	6.8	6.9	6.4	6.3	6.4
22	6.7	6.6	6.6	6.8	6.6	6.7	6.9	6.7	6.8	6.5	6.1	6.2
23	6.8	6.6	6.7	6.8	6.6	6.7	6.8	6.8	6.8	6.6	6.2	6.3
24	6.8	6.7	6.7	6.8	6.6	6.7	6.9	6.8	6.8	6.6	6.3	6.4
25	6.8	6.6	6.7	6.9	6.6	6.8	7.1	6.7	7.0	6.6	6.3	6.4
26	6.8	6.7	6.7	7.0	6.8	6.9	7.2	6.8	7.1	6.5	6.2	6.4
27	6.8	6.6	6.7	6.9	6.6	6.8	7.4	6.9	7.2	6.7	6.3	6.6
28	6.8	6.6	6.7	7.0	6.7	6.8	7.3	6.9	7.2	6.8	6.6	6.7
29	6.7	6.6	6.7	6.9	6.7	6.8	7.3	6.8	7.1	6.8	6.5	6.7
30	6.7	6.6	6.6	7.0	6.6	6.8	7.3	6.9	7.2	6.8	6.4	6.7
31	6.7	6.5	6.6	---	---	---	7.1	6.8	7.1	6.7	6.5	6.7
MONTH	7.0	6.5	6.7	7.1	6.5	6.7	7.4	6.5	6.9	7.1	6.1	6.6
		FEBRUARY			MARCH			APRIL			MAY	
1	6.7	6.5	6.7	7.2	6.7	7.0	6.7	6.6	6.7	7.1	6.8	6.9
2	6.7	6.6	6.7	7.0	6.9	7.0	6.7	6.6	6.6	6.9	6.8	6.9
3	6.7	6.5	6.7	7.0	6.9	6.9	6.6	6.5	6.6	7.2	6.8	6.9
4	6.7	6.6	6.6	7.0	6.9	6.9	6.6	6.5	6.5	7.3	6.9	7.1
5	6.7	6.7	6.7	7.0	6.9	7.0	6.5	6.4	6.5	7.4	6.9	7.0
6	6.7	6.6	6.7	7.0	6.9	7.0	6.8	6.5	6.7	7.3	6.8	7.0
7	6.8	6.6	6.7	7.2	6.7	6.9	6.9	6.7	6.8	6.8	6.6	6.7
8	6.9	6.5	6.8	7.1	6.9	7.0	6.8	6.7	6.8	6.6	6.3	6.4
9	6.8	6.5	6.7	7.1	6.8	7.0	6.8	6.7	6.7	6.4	6.3	6.3
10	6.9	6.4	6.7	7.1	6.7	6.9	6.8	6.6	6.7	6.6	6.2	6.4
11	6.9	6.5	6.8	6.9	6.8	6.8	6.8	6.7	6.8	6.7	6.4	6.6
12	6.9	6.6	6.8	7.0	6.8	6.9	6.9	6.7	6.8	6.8	6.5	6.7
13	6.9	6.6	6.9	6.9	6.9	6.9	6.9	6.8	6.9	6.9	6.7	6.8
14	6.9	6.6	6.8	6.9	6.8	6.9	6.9	6.8	6.9	6.7	6.6	6.7
15	6.8	6.4	6.7	6.8	6.8	6.8	6.8	6.7	6.8	6.7	6.6	6.6
16	6.8	6.6	6.8	6.8	6.7	6.8	6.7	6.6	6.7	6.6	6.4	6.6
17	6.8	6.7	6.8	6.8	6.8	6.8	6.7	6.6	6.7	6.6	6.5	6.6
18	6.9	6.7	6.8	6.8	6.6	6.7	6.7	6.6	6.7	6.9	6.5	6.7
19	7.0	6.7	6.9	6.6	6.6	6.6	6.7	6.6	6.7	6.9	6.7	6.7
20	7.0	6.7	6.9	6.6	6.6	6.6	6.7	6.4	6.6	6.8	6.6	6.7
21	7.0	6.7	6.8	6.7	6.5	6.6	6.6	6.5	6.5	6.8	6.7	6.8
22	6.9	6.8	6.8	6.6	6.6	6.6	6.7	6.5	6.6	6.8	6.7	6.8
23	6.9	6.7	6.8	6.6	6.6	6.6	6.7	6.6	6.7	6.8	6.7	6.7
24	7.0	6.7	6.9	6.6	6.5	6.5	6.8	6.6	6.7	6.7	6.7	6.7
25	7.0	6.8	7.0	6.5	6.5	6.5	6.9	6.7	6.8	6.9	6.7	6.7
26	7.2	6.8	7.0	6.5	6.5	6.5	6.9	6.8	6.8	7.0	6.8	6.9
27	7.3	7.0	7.2	6.6	6.5	6.5	6.9	6.8	6.8	7.0	6.8	6.8
28	7.1	6.9	7.0	6.6	6.5	6.6	6.9	6.8	6.9	6.9	6.8	6.8
29	---	---	---	6.6	6.5	6.6	6.9	6.8	6.9	6.9	6.8	6.8
30	---	---	---	6.6	6.5	6.6	7.0	6.8	6.9	6.9	6.8	6.8
31	---	---	---	6.7	6.6	6.6	---	---	---	7.1	6.8	6.9
MONTH	7.3	6.4	6.8	7.2	6.5	6.8	7.0	6.4	6.7	7.4	6.2	6.7

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	6.9	7.0	6.8	6.7	6.7	6.8	6.6	6.6	7.2	6.6	6.9
2	7.3	6.8	7.1	6.9	6.6	6.6	6.8	6.5	6.6	7.4	6.9	7.1
3	6.8	6.6	6.7	6.7	6.6	6.7	6.8	6.4	6.6	8.6	6.7	7.6
4	6.7	6.7	6.7	6.7	6.5	6.6	6.7	6.4	6.5	8.4	7.0	7.6
5	6.8	6.7	6.7	6.8	6.5	6.7	6.8	6.4	6.5	8.7	7.3	7.9
6	6.9	6.7	6.8	6.6	6.5	6.6	7.0	6.6	6.7	8.5	7.6	8.1
7	6.9	6.8	6.8	6.9	6.6	6.7	6.9	6.6	6.8	8.5	7.5	8.0
8	6.9	6.6	6.8	7.0	6.7	6.8	6.8	6.6	6.7	8.8	7.2	7.7
9	6.8	6.7	6.8	7.2	6.8	6.9	6.8	6.6	6.7	8.7	7.2	7.7
10	6.8	6.7	6.7	7.2	6.8	6.9	6.8	6.7	6.7	8.6	7.3	7.8
11	6.8	6.6	6.7	7.1	6.8	6.9	6.9	6.7	6.8	8.8	7.8	8.2
12	6.8	6.7	6.8	7.0	6.8	6.9	7.0	6.7	6.8	8.5	7.1	7.6
13	6.8	6.7	6.7	7.2	6.8	6.9	7.0	6.8	6.8	8.0	7.2	7.5
14	6.7	6.5	6.7	7.0	6.8	6.9	7.0	6.8	6.9	8.2	7.3	7.7
15	6.6	6.5	6.6	7.0	6.8	6.9	7.1	6.8	6.9	7.6	6.8	7.3
16	6.8	6.5	6.6	7.1	6.9	6.9	7.1	6.7	6.9	6.9	6.4	6.7
17	6.8	6.6	6.7	7.3	6.9	7.1	7.0	6.5	6.7	---	---	---
18	7.0	6.6	6.7	7.6	6.9	7.2	6.8	6.5	6.7	6.8	6.7	6.8
19	7.2	6.7	6.9	7.3	7.0	7.1	6.8	6.4	6.6	7.3	6.6	6.8
20	7.1	6.8	6.9	7.4	6.7	7.0	6.7	6.4	6.5	6.8	6.4	6.6
21	7.0	6.8	6.9	7.5	6.7	6.8	6.8	6.5	6.6	7.0	6.4	6.6
22	6.9	6.8	6.8	7.5	6.9	7.1	6.8	6.6	6.7	7.0	6.6	6.8
23	7.3	6.8	6.9	7.4	6.8	7.1	7.1	6.6	6.9	7.0	6.6	6.7
24	7.9	6.9	7.3	7.2	6.8	7.0	7.9	6.7	7.0	7.1	6.6	6.7
25	7.4	7.0	7.1	7.1	6.8	6.9	7.8	6.8	7.0	7.0	6.7	6.8
26	7.4	6.8	7.1	7.2	6.8	7.0	8.0	6.9	7.1	6.9	6.8	6.8
27	7.2	6.9	7.0	6.9	6.7	6.8	7.7	6.8	7.1	7.0	6.6	6.9
28	7.2	6.8	7.0	6.9	6.7	6.8	7.7	6.9	7.1	7.1	6.9	7.0
29	7.0	6.8	6.9	7.0	6.8	6.9	7.4	6.9	7.2	7.2	7.0	7.0
30	6.8	6.7	6.8	6.8	6.7	6.7	7.4	6.8	7.0	7.3	7.0	7.1
31	---	---	---	6.8	6.7	6.7	7.1	6.7	6.9	---	---	---
MONTH	7.9	6.5	6.8	7.6	6.5	6.9	8.0	6.4	6.8	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.4	23.3	23.8	20.4	17.7	18.8	12.1	11.2	11.5	5.2	3.6	4.2
2	24.9	23.3	23.9	19.6	18.2	18.8	11.5	10.6	10.9	5.5	4.5	5.0
3	25.1	23.5	24.0	19.4	18.4	18.9	10.8	10.2	10.4	6.4	5.4	5.9
4	24.5	23.6	24.0	19.1	18.5	18.7	10.2	9.7	10.0	7.8	6.3	7.1
5	24.4	23.5	23.8	18.5	17.5	18.0	10.1	9.3	9.6	9.4	7.5	8.5
6	23.5	22.4	22.9	17.9	16.9	17.4	9.6	9.1	9.3	10.7	8.8	9.8
7	22.8	21.8	22.1	17.7	16.5	17.2	10.9	9.1	9.8	11.2	10.2	10.7
8	22.4	21.2	21.7	17.4	16.4	17.0	11.6	10.2	11.0	12.3	10.7	11.6
9	21.8	21.0	21.3	17.8	15.4	16.9	11.0	10.3	10.7	12.2	11.4	11.8
10	22.3	20.5	21.2	17.8	14.4	15.7	12.6	10.8	11.7	12.5	11.5	12.1
11	21.5	20.0	20.8	15.8	13.8	14.4	12.5	11.7	12.0	12.2	10.4	11.6
12	20.7	19.5	20.1	15.5	13.9	14.7	12.1	11.5	11.8	13.2	11.8	12.3
13	20.8	19.8	20.2	14.4	12.7	13.6	12.0	11.2	11.7	14.1	12.4	13.0
14	20.1	19.5	19.8	14.0	11.7	12.6	11.4	10.1	10.8	14.5	12.6	13.6
15	19.7	18.6	19.4	12.8	11.6	12.1	10.1	9.0	9.4	12.9	11.3	11.8
16	18.7	17.6	18.3	11.7	10.6	11.1	9.0	8.0	8.6	12.0	10.3	11.2
17	18.6	17.8	18.3	10.8	10.1	10.5	8.0	7.1	7.5	10.3	8.2	9.4
18	18.5	17.5	17.9	10.8	10.2	10.5	7.6	6.9	7.2	8.2	6.9	7.5
19	19.3	17.6	18.3	10.8	10.0	10.3	7.4	6.1	6.7	6.9	4.9	5.9
20	18.9	18.1	18.5	11.0	10.2	10.5	6.4	3.5	4.9	4.9	4.0	4.4
21	19.7	17.8	18.3	12.8	10.7	11.4	5.2	3.7	4.3	4.0	3.2	3.6
22	19.8	17.6	18.6	12.5	11.3	11.8	5.3	4.5	4.9	3.2	2.8	3.0
23	19.6	17.1	18.3	12.8	11.9	12.3	6.8	5.0	5.7	3.0	1.6	2.4
24	19.5	16.7	17.5	13.6	12.4	13.0	6.6	5.5	6.1	2.7	1.3	1.9
25	17.8	16.1	16.6	14.8	13.3	14.0	5.8	5.1	5.3	3.3	2.0	2.5
26	18.6	15.5	16.8	13.5	12.3	12.8	5.7	4.8	5.1	3.4	2.4	2.8
27	17.9	15.2	16.3	13.2	12.6	12.9	5.1	4.0	4.6	3.8	3.0	3.2
28	18.7	15.5	17.0	13.4	12.6	13.0	4.6	3.2	4.0	4.4	2.3	3.2
29	17.5	15.5	16.2	12.6	11.9	12.2	4.0	2.5	3.1	3.7	2.6	3.2
30	18.3	15.6	16.6	12.0	11.3	11.6	3.8	2.6	3.0	3.5	3.2	3.4
31	19.3	16.7	17.7	---	---	---	4.3	2.8	3.4	4.9	2.9	3.6
MONTH	25.1	15.2	19.7	20.4	10.0	14.1	12.6	2.5	7.9	14.5	1.3	7.1
		FEBRUARY			MARCH			APRIL			MAY	
1	4.1	3.5	3.7	8.0	7.1	7.7	17.0	15.7	16.3	19.7	18.6	19.0
2	4.6	3.5	4.0	7.8	6.6	7.1	16.9	16.4	16.6	20.1	18.6	19.3
3	4.4	4.1	4.3	7.6	6.4	6.9	16.4	15.7	16.0	19.9	18.1	19.1
4	5.0	4.1	4.5	7.8	6.4	6.9	17.4	15.5	16.2	20.1	18.7	19.3
5	5.9	4.3	4.8	7.4	6.5	6.8	17.4	15.8	16.3	19.4	18.5	18.9
6	6.3	4.8	5.3	7.6	6.3	6.9	17.8	15.9	16.6	18.5	16.2	17.3
7	6.3	5.4	5.8	9.1	7.0	7.8	18.3	16.8	17.4	16.4	15.0	15.6
8	7.2	6.0	6.4	9.3	7.9	8.8	19.3	17.6	18.0	16.3	14.4	15.4
9	7.8	6.8	7.2	8.9	7.3	8.1	18.6	17.9	18.3	17.6	15.1	16.0
10	8.6	7.6	8.0	9.9	8.3	9.1	19.2	17.7	18.3	18.4	16.1	17.0
11	8.0	6.6	7.3	10.7	9.1	9.7	19.8	18.0	18.7	19.8	17.3	18.2
12	8.5	7.0	7.9	10.2	8.6	9.2	19.2	17.0	17.8	20.6	18.5	19.5
13	9.1	7.9	8.4	11.0	9.0	9.8	17.0	15.5	16.3	20.5	19.6	19.9
14	9.0	8.6	8.8	10.3	9.5	9.8	15.7	14.3	15.1	21.6	19.5	20.3
15	9.8	8.5	9.1	10.7	9.3	10	14.3	13.1	13.6	22.6	20.5	21.4
16	10.2	9.0	9.5	10.2	9.3	9.8	13.9	12.7	13.2	22.8	21.5	22.0
17	10.5	9.5	10	9.3	8.2	9.0	14.7	13.0	13.5	23.0	21.8	22.2
18	10.6	8.6	9.8	8.8	7.6	8.2	15.3	13.4	14.2	23.2	21.4	22.1
19	10.6	9.0	9.8	8.6	7.8	8.1	16.4	14.2	15.1	22.3	21.6	21.9
20	10.1	9.6	9.8	9.8	8.0	8.7	18.0	15.5	16.5	22.0	21.3	21.6
21	10.5	9.6	9.9	10.8	9.3	9.8	19.2	16.8	17.6	22.1	20.6	21.3
22	10.7	9.6	10.1	11.0	9.9	10.5	20.2	18.2	19.1	22.1	20.9	21.4
23	10.9	9.4	10.1	12.5	10.8	11.6	20.2	19.0	19.6	22.9	21.1	21.9
24	10.2	9.5	9.7	13.8	12.1	12.9	19.6	18.0	18.6	22.6	21.3	22.0
25	9.5	8.7	9.0	14.0	12.9	13.4	18.6	16.8	18.0	21.9	20.5	20.9
26	9.7	8.0	8.9	14.5	13.4	13.9	18.4	17.8	18.1	22.0	19.9	20.9
27	9.2	8.2	8.7	13.9	13.4	13.7	19.0	17.8	18.3	23.4	20.8	21.9
28	8.5	7.7	8.1	14.5	13.4	13.8	19.0	17.0	18.0	23.0	21.6	22.2
29	---	---	---	15.4	13.6	14.3	18.6	17.6	18.1	23.5	22.2	22.8
30	---	---	---	16.3	14.2	15.1	19.4	17.9	18.6	23.4	22.7	23.1
31	---	---	---	16.1	15.1	15.6	---	---	---	24.2	22.5	23.3
MONTH	10.9	3.5	7.8	16.3	6.3	10.1	20.2	12.7	16.9	24.2	14.4	20.2

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.7	22.3	22.8	29.8	27.0	28.0	29.0	28.1	28.4	30.6	29.0	29.4
2	22.3	21.4	21.8	29.3	27.2	27.9	29.1	27.3	27.9	31.0	29.2	29.6
3	22.3	21.1	21.6	28.8	27.4	28.2	28.6	26.8	27.5	30.1	28.8	29.5
4	23.2	21.7	22.3	30.0	27.3	28.4	28.5	26.7	27.4	29.5	28.2	28.9
5	25.6	22.5	23.5	30.4	28.3	29.1	30.3	27.6	28.4	28.3	27.2	27.7
6	25.4	23.4	24.2	31.5	28.8	29.6	31.1	28.5	29.4	27.3	26.3	26.8
7	25.7	23.7	24.3	31.8	29.6	30.5	30.4	29.0	29.6	26.7	25.9	26.3
8	27.5	24.7	25.6	30.8	29.4	30.2	29.4	28.8	29.1	27.0	25.6	26.1
9	26.6	25.5	25.9	31.5	29.6	30.2	30.4	28.5	29.0	27.0	25.8	26.2
10	27.8	25.9	26.6	31.8	29.7	30.4	31.4	28.6	29.1	26.3	25.4	25.8
11	27.3	26.2	26.7	31.6	30.2	30.7	31.2	29.2	29.9	25.6	24.6	25.1
12	27.7	26.1	26.8	30.9	30.1	30.4	32.1	29.7	30.5	25.0	24.4	24.8
13	28.8	26.4	27.3	30.3	29.1	29.6	32.2	30.2	31.0	25.8	24.7	25.2
14	29.6	26.8	27.7	29.5	28.5	29.0	32.9	30.5	31.4	25.7	25.0	25.4
15	29.5	27.1	28.2	30.6	28.6	29.3	32.2	30.6	31.4	25.2	24.8	25.0
16	29.4	28.0	28.6	31.9	29.0	30.0	32.1	30.5	31.3	26.2	24.8	25.3
17	28.8	27.4	28.1	31.4	29.7	30.4	31.5	29.9	30.4	---	---	---
18	28.4	27.4	27.8	32.1	29.6	30.7	30.9	29.1	29.8	28.1	25.9	26.5
19	27.8	26.9	27.3	32.5	30.3	31.2	30.5	29.1	29.7	28.2	26.2	27.1
20	26.9	25.9	26.4	32.3	30.7	31.4	31.6	29.3	30.2	28.6	26.9	27.4
21	27.1	25.1	25.9	32.9	30.3	31.4	32.5	30.0	30.8	27.5	26.8	27.1
22	27.8	25.7	26.6	33.0	30.4	31.5	32.0	30.4	30.8	28.4	26.6	27.1
23	28.1	26.1	26.9	31.7	30.6	31.0	31.0	30.0	30.5	28.1	26.8	27.2
24	28.6	26.5	27.3	31.8	30.2	30.9	30.3	29.4	29.8	27.8	26.9	27.4
25	28.0	27.2	27.5	31.9	30.3	30.9	29.6	28.5	29.0	27.8	26.8	27.2
26	27.6	27.0	27.3	32.4	30.2	31.0	28.7	27.6	28.2	27.4	26.7	27.0
27	29.0	27.0	27.7	33.6	30.8	31.7	28.3	27.6	27.9	27.6	26.4	26.9
28	28.5	27.7	28.0	32.5	31.0	31.6	29.2	27.6	28.2	27.2	26.1	26.6
29	27.7	26.7	27.1	32.2	30.0	30.8	29.6	28.2	28.8	27.1	26.0	26.4
30	28.4	26.5	27.1	30.5	29.3	29.8	30.8	28.7	29.3	26.6	25.3	25.8
31	---	---	---	29.6	28.8	29.3	30.2	29.1	29.7	---	---	---
MONTH	29.6	21.1	26.2	33.6	27.0	30.2	32.9	26.7	29.5	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.2	23.3	23.6	19.5	18.6	19.2	11.8	11.2	11.5	5.9	3.9	5.2
2	24.2	23.2	23.6	19.6	18.5	19.0	11.6	10.6	11.0	6.5	4.8	5.8
3	24.4	23.4	23.7	19.7	18.5	19.4	10.8	10.3	10.5	6.6	5.6	6.2
4	24.3	23.5	23.9	19.5	18.5	19.0	10.3	9.8	10.1	7.2	6.4	6.8
5	24.2	23.3	23.7	18.5	17.7	18.0	10.2	9.3	9.7	8.2	6.9	7.1
6	23.4	21.9	22.7	18.5	18.0	18.2	10.2	9.2	9.6	7.9	7.2	7.3
7	22.4	21.6	21.8	18.4	17.8	18.2	10.6	9.2	9.9	7.9	7.3	7.5
8	22.1	21.1	21.6	18.3	17.9	18.2	11.4	10.2	10.9	11.5	7.7	8.4
9	21.8	21.0	21.2	18.3	17.8	18.1	13.0	10.6	11.8	9.4	8.5	8.8
10	21.4	20.5	20.9	18.1	17.4	17.8	12.4	11.1	11.8	9.3	8.9	9.1
11	21.4	20.0	20.7	17.7	16.1	17.3	12.4	11.8	12.1	11.5	9.2	9.7
12	20.7	19.5	19.9	17.0	14.6	16.5	13.4	11.4	12.3	12.3	9.8	10.4
13	20.5	19.8	20.1	16.2	13.3	14.6	13.2	11.5	12.1	13.8	10.6	11.8
14	20.1	19.4	19.8	14.9	13.0	14.5	12.6	10.2	11.4	14.3	12.7	13.5
15	19.7	18.6	19.4	14.1	12.3	13.5	11.0	9.2	9.7	13.4	11.3	11.9
16	18.6	17.6	18.2	13.8	11.4	13.2	9.2	8.1	8.7	12.6	10.3	11.4
17	18.6	17.7	18.2	13.3	10.6	12.2	9.3	7.4	7.8	10.3	8.3	9.5
18	18.2	17.4	17.7	13.1	10.6	12.0	9.8	7.0	8.2	8.3	7.0	7.6
19	19.2	17.6	18.2	13.2	10.1	11.8	9.8	6.4	8.1	7.0	5.1	6.0
20	18.7	18.1	18.3	13.6	10.7	13.0	8.0	4.1	5.2	5.1	4.1	4.5
21	20.1	18.0	19.3	13.7	11.2	13.2	5.3	3.9	4.5	4.1	3.3	3.8
22	20.2	19.8	20.1	13.7	11.7	13.1	5.4	4.4	5.0	4.7	3.0	3.2
23	20.1	17.8	19.3	13.7	12.3	13.0	6.7	5.1	5.7	3.1	1.7	2.6
24	19.9	17.7	19.0	13.8	12.8	13.4	6.6	5.6	6.2	2.7	1.6	2.0
25	19.1	16.7	18.5	14.6	13.2	14.0	7.2	5.3	6.7	3.0	2.2	2.5
26	19.0	15.6	18.0	13.5	12.2	12.7	7.3	5.3	6.6	3.4	2.4	2.8
27	18.8	15.5	18.0	13.6	12.3	13.1	6.2	5.4	5.6	4.0	3.2	3.5
28	18.7	16.2	18.1	13.6	12.7	13.1	5.7	3.5	5.3	4.3	3.5	4.0
29	18.6	16.1	17.9	13.6	12.3	13.0	5.5	3.2	4.4	4.2	3.1	3.9
30	18.6	16.0	17.8	13.6	11.3	12.4	5.6	3.3	5.0	4.3	3.4	3.8
31	18.9	17.0	18.5	---	---	---	6.0	3.9	5.5	4.3	3.5	4.2
MONTH	24.4	15.5	20.1	19.7	10.1	15.2	13.4	3.2	8.5	14.3	1.6	6.6
		FEBRUARY			MARCH			APRIL			MAY	
1	4.5	3.9	4.3	8.4	7.2	7.7	16.9	15.7	16.2	19.7	18.5	19.0
2	4.5	4.0	4.4	7.9	6.6	7.1	16.9	16.4	16.6	19.7	18.6	19.1
3	4.7	4.3	4.5	7.4	6.5	6.8	16.4	15.7	16.0	19.9	18.1	19.0
4	4.9	4.3	4.8	7.4	6.4	6.8	16.6	15.5	16.0	19.9	18.7	19.3
5	5.0	4.8	4.9	7.1	6.5	6.8	17.3	15.8	16.2	19.4	18.4	18.9
6	5.4	4.9	5.0	7.6	6.3	6.9	17.3	15.9	16.5	18.4	16.1	17.2
7	5.3	5.1	5.2	8.7	7.0	7.7	18.2	16.8	17.4	16.4	14.8	15.4
8	7.0	5.2	6.1	9.2	7.7	8.8	18.8	17.6	17.9	15.9	14.3	15.1
9	7.5	6.0	6.6	8.9	7.1	8.0	18.5	17.9	18.2	17.3	15.1	15.9
10	8.4	6.6	7.6	9.7	8.3	8.9	18.7	16.7	17.9	18.3	15.9	16.9
11	8.0	6.5	7.0	10.4	9.1	9.6	19.1	18.0	18.4	19.2	17.2	18.1
12	8.2	6.5	7.1	9.8	8.6	9.2	19.2	17.0	17.7	20.5	18.4	19.3
13	8.7	6.6	7.2	10.6	9.0	9.7	17.0	15.3	16.2	20.4	19.5	19.8
14	8.9	8.0	8.6	10.1	9.5	9.8	15.7	14.3	15.1	21.0	19.3	20.1
15	9.0	7.4	8.2	10.5	9.3	9.9	14.3	13.0	13.5	22.3	20.4	21.1
16	9.4	7.4	8.1	10.2	9.3	9.8	13.8	12.6	13.1	22.5	21.4	21.8
17	9.1	7.6	8.0	9.3	8.2	8.9	14.1	12.9	13.5	22.8	21.7	22.1
18	10.6	8.0	9.2	8.6	7.6	8.1	15.0	13.1	14.0	22.8	21.3	21.9
19	10.1	8.8	9.2	8.3	7.8	8.0	16.0	14.0	14.8	22.3	21.5	21.9
20	9.7	8.9	9.3	9.3	7.9	8.6	17.5	15.2	16.1	22.0	21.2	21.6
21	9.6	8.8	9.0	10.4	9.3	9.8	17.4	16.7	17.1	21.5	20.6	21.0
22	10.0	8.9	9.1	10.9	9.9	10.4	19.8	17.3	18.7	22.0	20.9	21.4
23	10.5	9.2	9.7	12.1	10.8	11.5	20.2	19.1	19.6	22.6	21.1	21.7
24	10.2	9.5	9.8	13.6	12.1	12.8	19.6	18.0	18.6	22.3	21.2	21.8
25	9.5	9.0	9.2	13.9	12.9	13.3	18.4	16.7	17.8	21.9	20.3	20.8
26	9.3	8.6	9.1	14.2	13.4	13.8	18.4	17.8	18.0	21.7	19.6	20.6
27	9.3	8.7	9.2	13.8	13.4	13.6	18.8	17.8	18.2	21.8	20.6	20.9
28	9.2	7.7	8.4	14.2	13.3	13.7	18.4	17.0	17.7	22.5	21.2	21.8
29	---	---	---	15.1	13.6	14.2	18.4	17.7	18.0	23.1	21.8	22.3
30	---	---	---	16.1	14.2	14.9	19.3	17.7	18.5	23.1	22.4	22.8
31	---	---	---	16.0	14.9	15.5	---	---	---	23.3	22.3	22.7
MONTH	10.6	3.9	7.5	16.1	6.3	10.0	20.2	12.6	16.8	23.3	14.3	20.0

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	22.0	22.6	28.0	27.0	27.3	28.9	28.0	28.4	29.8	28.9	29.2
2	22.1	21.2	21.6	28.5	27.1	27.4	28.6	27.2	27.7	29.2	28.9	29.1
3	21.8	20.9	21.2	28.4	27.3	28.0	28.3	26.8	27.4	29.9	28.8	29.2
4	22.4	21.4	21.7	28.8	27.3	27.8	28.0	26.5	27.2	29.6	28.2	28.9
5	24.6	22.1	22.9	29.6	28.2	28.7	29.0	27.4	27.7	28.3	27.3	27.7
6	24.5	22.9	23.4	29.7	28.8	29.0	29.7	28.4	28.7	27.3	26.4	26.8
7	24.7	23.4	23.7	30.9	29.5	30.0	29.8	28.7	29.3	26.6	25.6	26.2
8	26.4	24.4	25.1	30.8	29.6	30.3	29.4	28.8	29.1	26.8	25.5	25.9
9	26.2	25.5	25.7	30.7	29.7	30.1	29.1	28.4	28.7	26.8	25.5	26.1
10	27.4	25.8	26.4	31.1	29.8	30.1	29.4	28.4	28.6	26.3	25.3	25.8
11	27.1	26.1	26.5	30.9	30.4	30.6	30.2	29.1	29.4	25.7	24.8	25.1
12	27.3	26.1	26.6	30.8	30.2	30.5	30.9	29.6	29.9	25.0	24.2	24.8
13	27.3	26.3	26.7	30.5	29.0	29.7	31.0	30.1	30.4	25.7	24.9	25.1
14	27.3	26.6	26.8	29.1	28.4	28.6	31.4	30.4	30.8	25.7	25.1	25.4
15	27.6	26.7	27.2	29.2	28.4	28.7	31.7	30.5	31.1	25.2	24.8	25.0
16	29.1	27.1	27.9	29.2	28.8	29.0	31.6	30.4	31.1	25.9	24.7	25.2
17	28.2	27.2	27.8	30.4	29.1	29.8	31.5	29.9	30.2	---	---	---
18	28.2	27.1	27.5	30.9	29.5	30.2	30.3	29.0	29.6	26.2	25.5	25.7
19	27.6	26.4	27.2	30.8	30.2	30.4	30.0	29.0	29.4	28.2	25.7	26.9
20	26.9	25.7	26.4	31.1	29.3	30.3	30.4	29.1	29.6	28.1	27.0	27.3
21	26.4	24.6	25.4	31.5	29.3	29.8	30.9	29.7	30.2	27.6	26.6	27.0
22	26.2	25.5	25.7	31.5	29.9	30.6	30.7	30.1	30.4	27.8	26.7	27.0
23	27.3	25.5	26.1	31.4	30.1	30.6	30.8	29.8	30.4	27.8	26.8	27.0
24	28.2	26.4	27.1	31.1	29.8	30.2	30.6	29.4	29.9	27.9	27.0	27.3
25	27.7	27.1	27.4	30.5	29.7	29.9	29.6	28.3	28.9	27.8	27.0	27.4
26	27.6	27.0	27.3	30.7	29.7	30.2	28.6	27.6	28.1	27.4	26.6	26.8
27	28.1	27.1	27.3	31.2	29.9	30.5	28.4	27.6	27.8	27.0	26.4	26.8
28	28.2	27.6	27.9	31.4	30.4	31.0	28.7	27.3	27.9	27.0	26.3	26.6
29	27.8	26.7	27.1	31.8	30.0	30.7	29.2	28.1	28.5	26.6	25.9	26.2
30	27.6	26.4	26.9	30.2	29.2	29.7	29.2	28.6	28.8	26.5	25.3	26.0
31	---	---	---	29.6	28.8	29.2	30.0	29.0	29.4	---	---	---
MONTH	29.1	20.9	25.8	31.8	27.0	29.6	31.7	26.5	29.2	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	5.5	6.0	7.6	3.2	6.4	9.7	7.6	8.9	---	---	---
2	6.9	5.4	5.9	7.0	5.7	6.4	9.1	8.3	8.7	---	---	---
3	7.1	5.2	5.7	6.9	4.9	6.3	8.9	8.6	8.8	---	---	---
4	6.4	5.3	5.6	6.4	4.8	5.8	8.9	8.7	8.8	---	---	---
5	6.8	5.5	5.9	7.8	6.1	6.7	9.0	8.4	8.7	---	---	---
6	6.7	5.9	6.2	7.4	6.2	6.7	9.0	8.5	8.8	---	---	---
7	---	---	---	7.2	5.9	6.6	9.2	8.6	8.9	---	---	---
8	---	---	---	8.0	4.9	6.7	9.2	8.7	9.0	---	---	---
9	---	---	---	7.0	1.3	4.4	9.1	8.5	8.9	---	---	---
10	---	---	---	7.4	1.8	5.5	9.0	8.5	8.7	---	---	---
11	---	---	---	7.8	4.5	7.0	8.9	8.0	8.4	---	---	---
12	---	---	---	8.3	5.1	7.1	8.4	7.9	8.2	---	---	---
13	---	---	---	8.9	7.1	8.3	8.6	8.1	8.4	---	---	---
14	---	---	---	9.1	7.6	8.7	9.0	8.2	8.6	---	---	---
15	---	---	---	8.8	8.2	8.6	9.6	8.3	9.2	---	---	---
16	---	---	---	9.6	8.6	9.0	9.5	9.3	9.4	---	---	---
17	---	---	---	10.1	9.2	9.7	9.8	9.1	9.5	---	---	---
18	---	---	---	10.1	9.6	9.9	10.0	9.3	9.6	---	---	---
19	---	---	---	10.2	9.6	9.9	10.7	9.3	10.0	---	---	---
20	---	---	---	10.1	9.5	9.8	11.9	9.7	11.1	---	---	---
21	---	---	---	9.9	7.4	9.2	11.8	10.9	11.3	---	---	---
22	7.3	1.4	4.7	9.7	8.4	9.3	11.2	10.8	11.0	---	---	---
23	6.8	2.0	4.9	9.5	8.8	9.1	11.3	10.8	11.0	---	---	---
24	7.2	3.1	5.5	9.4	8.7	9.1	11.4	10.9	11.1	---	---	---
25	7.4	4.3	6.5	9.4	8.8	9.2	11.6	10.8	11.3	---	---	---
26	7.6	4.2	6.1	9.6	8.9	9.2	12.0	10.8	11.1	12.2	11.9	12.0
27	7.6	4.0	6.4	9.1	8.8	8.9	---	---	---	12.2	10.8	12.0
28	7.9	4.8	6.3	9.5	8.8	9.2	---	---	---	12.3	10.0	11.7
29	7.7	5.9	6.8	9.5	9.0	9.3	---	---	---	12.1	11.2	11.8
30	7.2	6.1	6.8	9.7	9.3	9.5	---	---	---	12.6	11.7	12.0
31	7.4	5.3	6.9	---	---	---	---	---	---	12.3	11.2	12.0
MONTH	---	---	---	10.2	1.3	8.1	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	11.8	12.2	11.1	10.1	10.8	8.6	7.8	8.3	8.5	7.4	7.8
2	12.3	9.8	11.9	11.2	10.9	11.1	8.8	7.6	8.1	8.1	7.3	7.8
3	12.2	11.9	12.1	11.3	11.0	11.1	7.9	7.5	7.7	8.6	7.2	7.7
4	12.2	9.4	11.6	11.4	10.9	11.2	7.9	7.3	7.6	8.7	6.9	7.8
5	12.0	9.4	11.3	11.4	11.1	11.3	8.0	7.3	7.6	9.2	7.3	7.9
6	11.9	9.6	11.6	11.4	11.0	11.2	8.0	7.3	7.7	8.5	7.3	7.8
7	11.8	11.0	11.6	11.1	10.6	10.9	7.8	7.5	7.6	7.3	6.8	7.1
8	11.6	11.0	11.5	10.7	10.2	10.5	7.6	6.7	7.2	7.2	6.5	7.0
9	11.5	11.0	11.3	10.6	9.9	10.4	7.4	6.6	6.9	7.1	6.6	6.9
10	11.2	10.7	10.9	10.3	9.8	10	7.1	6.4	6.7	7.3	6.4	6.7
11	11.3	10.6	10.9	10.3	9.7	10.0	6.8	6.3	6.6	7.1	6.2	6.7
12	11.0	10.6	10.8	10.6	10.0	10.3	7.3	6.4	6.9	6.9	6.0	6.4
13	10.9	10.4	10.6	10.4	10.0	10.2	7.6	6.8	7.3	6.8	5.9	6.3
14	11.0	10.3	10.5	10.4	9.8	10.2	7.8	6.7	7.5	6.3	5.7	6.0
15	10.6	10.2	10.4	10.1	9.7	9.9	8.2	7.3	7.9	6.5	5.8	6.1
16	10.6	10.4	10.5	10.4	9.7	10	8.4	7.9	8.2	6.9	5.9	6.3
17	10.5	9.7	10.3	10.5	10.0	10.3	8.3	8.0	8.2	6.9	6.2	6.4
18	10.5	9.4	10.1	10.8	10.1	10.5	8.2	7.8	8.1	6.6	5.8	6.2
19	10.4	9.8	10.1	11.1	10.2	10.7	8.1	7.7	8.0	6.1	5.5	5.8
20	10.3	9.8	10	11.1	10.5	10.8	7.9	7.3	7.7	6.1	5.7	5.9
21	10.3	9.8	10.1	10.9	10.2	10.5	7.5	7.1	7.2	6.5	5.9	6.2
22	10.4	9.8	10.1	10.7	9.9	10.3	7.4	6.8	7.1	6.6	6.0	6.2
23	10.4	10.0	10.3	10.3	9.3	9.8	7.3	6.6	6.9	6.9	6.0	6.2
24	10.6	10.2	10.4	9.5	8.7	9.1	7.0	6.3	6.7	6.6	6.1	6.3
25	10.6	9.6	10.3	9.2	8.5	9.0	7.5	6.8	7.1	6.6	6.0	6.3
26	10.5	9.9	10.1	9.0	8.4	8.6	7.4	6.8	7.1	7.1	6.0	6.4
27	10.7	10.0	10.3	9.1	8.4	8.7	7.4	6.8	7.1	6.9	6.0	6.4
28	10.9	10.1	10.7	9.2	8.4	8.9	7.9	7.1	7.4	6.6	5.9	6.2
29	---	---	---	9.1	8.3	8.7	8.1	7.2	7.5	6.5	5.9	6.2
30	---	---	---	8.9	8.2	8.5	8.1	7.3	7.7	6.8	5.9	6.3
31	---	---	---	8.8	8.0	8.4	---	---	---	8.0	5.7	6.8
MONTH	12.3	9.4	10.8	11.4	8.0	10.1	8.8	6.3	7.5	9.2	5.5	6.6

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	5.9	6.6	7.2	4.4	5.3	5.6	3.8	4.3	9.0	5.5	6.6
2	7.8	5.1	7.0	7.3	4.2	5.3	5.2	3.1	4.0	9.7	5.1	6.7
3	5.5	4.5	4.9	7.8	4.8	6.1	5.7	3.5	4.1	9.1	4.8	6.8
4	5.7	4.6	4.9	9.8	4.8	6.9	6.3	3.5	4.3	8.6	5.0	7.1
5	6.5	4.7	5.3	9.8	5.3	7.3	8.9	4.5	5.9	8.9	5.4	7.3
6	6.9	4.7	5.6	9.0	5.1	6.3	9.7	6.0	7.5	9.0	6.2	7.6
7	7.1	5.4	5.9	8.7	5.5	6.7	8.4	6.4	7.4	8.7	6.8	7.7
8	8.3	5.7	6.5	7.4	5.7	6.6	7.1	5.8	6.5	9.8	6.5	7.6
9	---	---	---	9.2	6.0	7.1	7.6	5.2	6.0	9.3	5.6	7.5
10	---	---	---	10.3	6.2	7.5	7.5	4.6	5.3	8.6	5.8	7.2
11	---	---	---	9.9	6.7	7.7	8.3	5.2	6.1	8.6	6.3	7.3
12	---	---	---	8.8	6.4	7.4	9.2	5.5	6.8	7.7	5.8	6.8
13	---	---	---	7.4	5.5	6.3	9.5	6.2	7.5	7.9	5.7	6.8
14	---	---	---	7.0	4.9	5.8	---	---	---	7.0	4.5	6.3
15	6.4	5.0	5.6	9.5	5.2	6.8	---	---	---	6.2	3.7	5.3
16	7.0	5.1	5.9	11.0	6.0	7.8	---	---	---	5.2	2.7	3.5
17	6.2	4.4	5.6	10.0	6.1	8.0	7.4	5.5	6.4	---	---	---
18	7.4	4.4	5.7	---	---	---	8.3	4.7	6.1	5.1	1.8	2.8
19	7.7	5.2	6.3	---	---	---	7.1	4.3	5.5	8.2	1.1	4.2
20	---	---	---	---	---	---	7.6	4.1	5.5	7.7	2.9	4.7
21	---	---	---	8.6	3.5	7.0	8.4	4.5	5.9	7.0	3.2	4.7
22	---	---	---	9.1	5.4	7.2	8.4	5.2	6.1	8.5	4.0	5.3
23	---	---	---	7.7	5.3	6.4	7.3	4.8	5.9	8.1	3.9	5.0
24	---	---	---	8.0	5.2	6.6	7.4	4.1	5.4	6.7	3.6	5.0
25	---	---	---	9.8	6.4	7.3	8.1	4.3	5.5	7.3	4.2	5.6
26	---	---	---	9.7	6.0	7.0	8.1	5.3	6.3	7.6	4.9	6.1
27	---	---	---	9.8	4.7	6.9	8.2	5.5	6.6	8.9	3.4	5.5
28	---	---	---	8.3	3.7	6.5	8.7	5.6	7.0	8.1	4.5	6.2
29	7.0	5.6	6.2	7.6	5.6	6.3	9.0	6.1	7.4	8.0	5.6	6.6
30	5.9	5.0	5.4	5.8	4.5	5.1	8.8	5.4	6.8	6.3	4.7	5.4
31	---	---	---	5.0	4.1	4.5	7.6	6.0	6.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	5.3	5.7	5.6	0.8	1.7	9.8	6.8	8.8	12.5	7.8	10
2	5.8	5.1	5.4	6.3	3.3	5.1	9.0	7.2	8.5	11.9	7.1	9.1
3	6.0	4.9	5.2	6.7	2.2	3.7	9.1	7.1	8.7	11.8	6.4	8.8
4	6.1	5.0	5.3	6.3	2.4	4.7	9.0	6.9	8.5	10.8	5.6	7.9
5	6.6	5.4	5.8	7.3	5.5	6.5	9.2	6.2	8.2	8.9	4.9	6.1
6	6.5	5.9	6.1	6.7	3.6	5.5	9.3	5.9	8.2	7.2	5.5	6.4
7	---	---	---	5.5	2.0	3.5	9.3	5.8	8.5	7.2	5.5	6.5
8	---	---	---	2.5	0.6	1.6	9.5	6.1	8.0	8.8	5.7	6.8
9	---	---	---	2.9	0.3	0.9	8.9	2.7	5.9	7.3	5.5	6.5
10	---	---	---	1.5	0.3	0.6	9.0	4.2	7.7	6.9	5.2	6.2
11	---	---	---	3.1	0.4	0.7	8.8	6.9	8.0	7.8	4.8	6.0
12	---	---	---	6.8	0.6	1.8	8.4	2.6	6.0	8.1	4.8	5.9
13	---	---	---	9.1	2.0	6.4	8.7	3.3	6.8	8.8	5.2	6.9
14	---	---	---	8.0	6.3	7.0	9.2	3.8	7.1	9.4	7.2	8.5
15	---	---	---	8.6	7.2	7.9	9.7	5.4	8.7	9.3	7.1	8.5
16	---	---	---	8.8	7.0	7.7	9.8	8.6	9.4	8.6	5.8	7.8
17	---	---	---	9.6	6.8	7.9	9.9	6.5	9.1	9.8	8.0	8.8
18	---	---	---	9.8	6.6	8.0	10.1	5.5	8.2	10.0	8.9	9.6
19	---	---	---	10.0	6.0	7.8	10.5	6.2	8.3	10.7	9.5	10.2
20	---	---	---	9.2	4.8	5.8	12.1	8.1	10.9	11.1	10.1	10.8
21	---	---	---	8.8	4.2	5.2	11.5	8.7	10.5	11.6	10.5	11.1
22	2.0	0.2	0.7	8.3	3.9	5.3	11.2	8.5	10.4	11.9	8.4	11.1
23	5.2	0.6	1.9	8.4	3.5	6.0	11.4	8.6	10.4	13.6	11.0	12.2
24	4.8	1.1	2.4	8.8	3.2	5.5	11.5	8.7	10.1	12.2	10.6	11.5
25	5.8	1.1	2.6	9.3	6.0	8.5	11.1	7.9	9.5	12.2	10.9	11.7
26	6.9	1.4	3.0	9.3	8.6	8.9	10.7	8.1	9.6	12.2	10.2	11.9
27	6.8	1.3	3.1	8.7	7.3	8.0	11.2	8.8	10.4	10.2	9.2	9.5
28	5.7	1.5	3.1	9.0	6.9	8.3	11.2	8.9	10.3	11.0	9.4	9.9
29	6.2	1.8	3.6	8.9	6.5	7.5	11.9	9.1	10.6	11.4	10.1	10.6
30	6.3	1.2	3.0	9.9	5.9	7.9	11.8	8.9	10.4	12.0	10.2	11.1
31	6.1	0.8	1.9	---	---	---	12.2	8.1	9.4	11.6	8.7	9.6
MONTH	---	---	---	10.0	0.3	5.5	12.2	2.6	8.9	13.6	4.8	9.0
		FEBRUARY			MARCH			APRIL			MAY	
1	11.4	8.6	9.4	10.5	9.3	10.2	8.6	8.1	8.3	8.5	7.5	7.9
2	10.9	8.0	8.5	10.7	10.4	10.5	---	---	---	8.0	7.5	7.7
3	11.5	8.1	9.2	10.7	10.5	10.6	---	---	---	8.8	7.3	7.8
4	10.7	7.0	7.8	10.9	10.6	10.7	---	---	---	9.0	7.1	8.0
5	9.0	7.4	7.8	10.9	10.7	10.9	---	---	---	9.4	7.4	8.1
6	9.8	6.9	7.5	10.9	10.7	10.8	---	---	---	9.0	7.4	8.1
7	7.6	6.9	7.2	10.7	7.0	10.1	7.4	6.9	7.1	7.6	6.8	7.2
8	11.2	7.0	10.1	10.4	9.9	10.2	7.2	6.5	6.9	7.6	6.9	7.4
9	11.1	7.0	9.6	10.5	10.0	10.2	7.2	6.3	6.5	7.4	6.4	7.1
10	10.8	6.5	9.6	10.5	8.7	10.2	6.7	6.0	6.3	7.2	6.1	6.8
11	10.6	8.6	9.7	10.5	10.1	10.3	6.5	5.7	6.4	7.0	5.9	6.6
12	10.6	9.4	10.1	10.8	10.3	10.7	7.2	6.2	6.8	6.6	5.8	6.2
13	10.2	9.0	9.7	10.7	10.5	10.6	---	---	---	6.8	5.9	6.3
14	10.1	9.2	9.9	10.6	10.2	10.5	---	---	---	6.1	5.6	5.8
15	10.1	7.9	9.1	10.3	10.1	10.2	---	---	---	6.3	5.5	5.9
16	9.8	7.2	8.3	10.5	10.1	10.2	---	---	---	6.4	5.8	6.0
17	9.1	6.9	7.7	10.6	10.2	10.4	---	---	---	7.0	5.9	6.1
18	9.9	7.5	8.9	10.8	10.4	10.6	---	---	---	6.3	5.6	6.1
19	9.6	8.6	9.3	11.0	10.7	10.8	---	---	---	6.3	5.6	5.8
20	9.4	8.8	9.1	11.0	10.6	10.8	---	---	---	6.2	5.6	5.9
21	9.6	8.3	8.6	10.8	10.1	10.6	7.6	7.0	7.3	6.6	5.9	6.2
22	9.4	8.2	8.5	10.5	10.1	10.3	7.5	6.7	7.1	6.4	5.9	6.2
23	9.7	8.0	9.0	10.2	9.3	9.7	7.5	6.7	7.1	6.3	5.9	6.1
24	10.0	8.8	9.5	9.4	8.7	9.0	7.3	6.4	6.9	6.4	5.9	6.1
25	10.0	8.8	9.2	9.1	8.6	8.8	7.7	6.9	7.3	7.0	6.0	6.2
26	9.6	8.8	9.1	9.0	8.3	8.6	7.6	7.1	7.4	7.2	6.2	6.5
27	9.9	9.0	9.5	9.2	8.5	8.7	7.7	7.1	7.3	7.2	6.0	6.3
28	10.4	9.0	9.8	9.5	8.5	8.9	8.0	7.4	7.7	6.4	6.0	6.2
29	---	---	---	---	---	---	8.1	7.5	7.7	6.8	6.0	6.4
30	---	---	---	---	---	---	8.1	7.5	7.9	6.8	6.0	6.4
31	---	---	---	---	---	---	---	---	---	7.6	5.9	6.6
MONTH	11.5	6.5	9.0	---	---	---	---	---	---	9.4	5.5	6.6

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	6.2	7.0	5.3	4.2	4.6	4.6	3.4	4.0	6.8	5.1	5.8
2	---	---	---	6.4	3.8	4.4	4.3	0.5	3.4	6.3	2.7	4.9
3	---	---	---	6.6	4.6	5.4	4.0	0.8	2.9	7.5	2.2	4.9
4	---	---	---	6.5	4.5	5.4	4.4	2.1	3.1	7.3	2.6	5.6
5	---	---	---	7.3	4.7	6.1	7.2	2.9	4.3	8.7	5.0	6.8
6	---	---	---	6.0	4.7	5.3	8.0	5.1	5.8	8.2	5.7	6.9
7	---	---	---	6.6	4.8	5.5	7.2	5.5	6.5	8.7	6.6	7.6
8	---	---	---	6.9	5.4	6.1	6.8	5.5	6.1	9.6	6.1	7.1
9	6.5	5.4	6.0	7.2	5.3	6.0	6.0	4.8	5.4	8.6	4.1	6.6
10	6.5	5.2	5.7	8.0	5.6	6.2	5.7	4.1	4.6	8.2	5.6	7.0
11	5.9	4.8	5.4	7.6	5.8	6.5	6.5	4.8	5.2	8.6	5.9	7.1
12	5.9	5.3	5.5	7.4	5.9	6.4	7.2	5.4	5.8	8.0	5.6	6.6
13	5.5	4.8	5.2	6.8	5.0	5.9	7.2	5.8	6.3	7.7	4.9	6.2
14	5.4	4.4	4.9	5.7	4.4	5.0	7.6	6.2	6.7	7.1	5.9	6.6
15	5.1	4.2	4.7	6.4	4.7	5.3	8.2	6.2	7.0	6.3	4.2	5.6
16	6.5	2.3	4.6	7.4	4.9	5.7	8.4	6.4	7.0	4.6	2.5	3.4
17	5.4	0.8	3.7	---	---	---	7.8	5.2	6.4	---	---	---
18	6.4	0.3	3.1	---	---	---	7.0	4.8	6.0	1.7	0.4	1.0
19	7.4	4.8	6.0	---	---	---	6.5	4.3	5.0	8.9	0.1	3.8
20	6.9	4.9	5.8	---	---	---	5.6	4.0	4.6	7.0	3.2	4.6
21	6.4	5.1	5.8	7.5	0.4	2.1	6.4	4.3	5.1	7.5	3.4	4.8
22	5.6	3.5	4.8	7.6	2.0	4.6	6.0	4.7	5.2	7.6	4.3	5.2
23	8.0	3.5	4.9	7.2	1.6	4.7	6.4	1.1	4.5	7.6	3.6	4.5
24	9.2	6.3	7.5	6.4	0.8	3.0	7.9	2.0	4.8	6.6	2.3	4.1
25	8.5	6.7	7.5	5.0	0.6	1.1	---	---	---	5.5	0.4	3.1
26	8.3	6.0	7.2	5.5	0.6	3.5	---	---	---	6.2	2.3	4.5
27	8.0	6.0	6.6	5.5	0.6	3.0	---	---	---	4.8	2.7	3.9
28	8.0	5.8	6.7	5.2	1.0	3.4	---	---	---	5.2	2.6	3.6
29	6.7	5.5	5.9	6.3	4.0	5.4	---	---	---	6.5	3.5	5.1
30	5.6	4.8	5.0	5.7	3.2	4.6	---	---	---	5.8	3.1	4.3
31	---	---	---	4.9	3.4	4.3	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	83	65	72	84	34	69	89	70	82	---	---	---
2	84	64	70	75	61	69	83	75	79	---	---	---
3	86	61	67	74	53	68	80	77	79	---	---	---
4	77	63	67	68	52	62	79	77	78	---	---	---
5	81	65	71	83	65	71	80	74	77	---	---	---
6	78	69	73	78	65	70	79	75	77	---	---	---
7	---	---	---	75	61	69	82	75	79	---	---	---
8	---	---	---	84	51	69	83	80	81	---	---	---
9	---	---	---	70	14	46	82	77	80	---	---	---
10	---	---	---	73	19	55	83	77	81	---	---	---
11	---	---	---	77	45	69	82	75	78	---	---	---
12	---	---	---	82	51	70	78	73	76	---	---	---
13	---	---	---	85	70	80	80	75	77	---	---	---
14	---	---	---	87	73	82	80	75	78	---	---	---
15	---	---	---	82	77	80	84	73	81	---	---	---
16	---	---	---	86	78	82	82	80	81	---	---	---
17	---	---	---	91	83	87	82	76	79	---	---	---
18	---	---	---	91	86	89	83	77	80	---	---	---
19	---	---	---	92	86	89	86	77	82	---	---	---
20	---	---	---	91	86	88	91	77	87	---	---	---
21	---	---	---	90	70	85	90	85	87	---	---	---
22	77	15	50	90	79	86	88	85	86	---	---	---
23	73	22	52	89	83	85	92	85	88	---	---	---
24	75	34	58	90	82	86	91	88	90	---	---	---
25	76	45	67	92	85	89	91	86	89	---	---	---
26	76	45	63	90	84	87	94	85	88	91	87	89
27	76	42	65	86	83	84	---	---	---	92	82	90
28	85	50	65	90	84	87	---	---	---	91	76	88
29	80	61	70	89	85	87	---	---	---	91	84	88
30	74	63	70	89	85	87	---	---	---	95	88	90
31	78	57	72	---	---	---	---	---	---	94	86	91
MONTH	---	---	---	92	14	78	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	94	90	92	93	85	90	89	79	85	93	80	85
2	95	76	91	94	89	92	91	78	83	89	78	84
3	94	91	93	94	89	92	81	76	78	94	78	84
4	94	74	90	94	91	92	82	74	77	95	74	84
5	95	73	88	95	92	93	82	75	78	99	78	85
6	96	76	91	94	91	92	81	76	79	87	75	82
7	96	89	93	94	90	92	83	77	79	75	68	71
8	96	89	93	92	87	90	80	72	76	74	64	71
9	95	91	93	91	86	88	79	70	74	72	67	70
10	94	91	92	91	84	87	75	67	72	78	66	70
11	94	88	91	93	84	88	74	68	70	75	68	71
12	93	89	91	94	88	90	76	69	73	77	64	70
13	94	89	91	94	88	90	77	70	74	75	65	70
14	95	89	90	93	86	90	78	66	75	72	62	66
15	93	88	90	91	85	88	80	70	76	75	65	69
16	94	90	92	91	86	88	81	75	79	80	67	72
17	94	86	91	91	86	89	80	77	78	81	71	74
18	93	82	89	92	86	89	80	77	79	75	66	71
19	92	86	89	94	86	91	82	78	80	70	63	66
20	91	86	88	96	89	93	82	76	79	70	65	68
21	93	86	89	95	91	93	80	73	76	74	66	70
22	92	87	90	95	90	93	80	72	77	76	67	70
23	94	88	91	93	87	90	80	72	75	81	69	72
24	93	89	92	89	84	86	76	69	72	76	69	72
25	92	83	89	88	82	86	80	70	75	74	67	70
26	91	85	88	86	81	84	79	72	75	81	67	72
27	92	86	89	87	81	84	80	72	75	79	67	73
28	92	86	91	90	81	86	85	75	79	77	67	71
29	---	---	---	89	81	85	87	76	80	77	68	72
30	---	---	---	90	81	85	88	77	82	80	69	73
31	---	---	---	88	80	84	---	---	---	95	66	80
MONTH	96	73	91	96	80	89	91	66	77	99	62	73

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	94	69	77	95	55	69	73	49	56	121	72	87
2	89	58	80	95	53	68	68	39	51	131	67	88
3	63	51	56	101	61	79	74	44	52	121	63	89
4	67	52	57	130	61	89	81	44	55	113	65	92
5	79	54	63	131	68	96	119	57	76	114	68	93
6	84	56	67	123	67	83	130	78	99	113	78	95
7	87	64	71	119	73	90	112	84	97	109	84	96
8	105	69	80	99	75	88	93	76	85	123	80	94
9	---	---	---	125	79	95	102	68	78	117	69	94
10	---	---	---	141	82	100	102	60	69	107	71	89
11	---	---	---	135	89	104	112	68	81	105	76	89
12	---	---	---	119	85	98	126	73	92	94	70	83
13	---	---	---	99	72	83	131	83	102	97	69	82
14	---	---	---	92	63	76	---	---	---	86	55	77
15	84	63	72	127	67	89	---	---	---	75	45	65
16	92	65	77	150	78	104	---	---	---	64	33	43
17	81	56	72	136	81	107	101	73	86	---	---	---
18	96	56	73	---	---	---	112	62	81	66	22	35
19	98	65	80	---	---	---	95	56	73	105	14	53
20	---	---	---	---	---	---	104	54	74	100	36	60
21	---	---	---	119	47	95	116	60	79	89	40	59
22	---	---	---	127	72	98	115	70	82	110	50	67
23	---	---	---	105	71	87	99	64	79	104	49	63
24	---	---	---	109	70	88	98	54	72	85	46	64
25	---	---	---	134	85	98	107	56	72	93	53	70
26	---	---	---	134	80	95	105	67	81	96	61	77
27	---	---	---	138	63	95	106	70	85	113	42	70
28	---	---	---	114	50	88	114	71	90	102	56	78
29	89	70	78	104	75	84	119	78	97	101	69	82
30	76	62	68	77	59	68	118	70	89	77	58	67
31	---	---	---	66	54	59	101	79	88	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	77	62	68	61	9	19	90	63	81	95	62	79
2	69	60	64	68	36	56	81	65	77	93	57	73
3	72	58	61	72	24	41	82	64	78	94	52	71
4	73	59	63	68	26	51	80	62	76	88	46	65
5	79	64	69	77	58	68	81	55	73	75	41	51
6	75	68	71	71	38	59	81	52	72	60	46	53
7	---	---	---	58	21	37	82	52	75	60	46	55
8	---	---	---	26	6	17	85	55	72	81	48	58
9	---	---	---	31	3	9	80	26	55	63	47	56
10	---	---	---	16	3	6	83	39	71	60	45	54
11	---	---	---	32	4	7	82	65	75	71	42	53
12	---	---	---	67	6	19	78	25	56	76	43	53
13	---	---	---	87	20	62	80	31	63	85	47	64
14	---	---	---	78	62	68	82	35	65	89	68	82
15	---	---	---	83	70	76	84	49	76	85	66	79
16	---	---	---	81	67	73	84	74	81	80	55	71
17	---	---	---	86	65	73	83	56	77	84	70	77
18	---	---	---	88	63	74	84	49	70	84	75	80
19	---	---	---	89	57	72	86	55	70	85	78	82
20	---	---	---	83	46	55	93	69	86	87	78	84
21	---	---	---	80	41	49	89	68	81	88	80	84
22	22	2	8	77	38	50	88	67	82	89	65	83
23	55	7	21	79	34	57	92	68	83	98	82	90
24	51	12	26	84	31	53	93	71	82	88	76	83
25	60	12	28	91	58	83	88	66	78	90	80	86
26	69	15	32	87	81	84	85	67	79	90	76	88
27	68	14	33	82	70	76	89	70	83	77	69	72
28	58	16	32	86	67	79	87	71	81	83	72	75
29	63	19	37	84	62	72	89	72	82	86	77	81
30	64	13	31	91	57	74	89	71	82	91	78	84
31	63	9	21	---	---	---	93	65	75	88	67	74
MONTH	---	---	---	91	3	54	93	25	75	98	41	72
		FEBRUARY			MARCH			APRIL			MAY	
1	87	66	73	89	79	86	88	82	85	93	80	85
2	83	62	66	90	85	87	---	---	---	87	81	83
3	89	63	71	89	86	87	---	---	---	96	78	84
4	82	55	61	90	87	88	---	---	---	98	76	87
5	70	58	61	90	88	89	---	---	---	101	80	87
6	78	54	59	90	87	89	---	---	---	92	76	84
7	60	54	57	90	59	85	79	72	75	77	68	72
8	92	55	82	90	84	88	76	70	73	77	68	74
9	92	56	79	91	83	87	77	67	70	74	66	71
10	91	53	81	92	74	88	71	63	67	76	62	70
11	89	71	80	94	88	91	70	61	68	74	61	70
12	88	77	84	95	90	93	75	67	72	74	62	68
13	87	74	80	96	92	93	---	---	---	76	64	69
14	87	78	85	94	90	92	---	---	---	68	61	64
15	87	66	78	93	89	91	---	---	---	73	61	67
16	86	60	70	92	89	90	---	---	---	74	66	69
17	79	58	65	92	88	90	---	---	---	81	67	71
18	89	63	78	92	88	90	---	---	---	73	63	70
19	84	74	81	93	90	91	---	---	---	73	64	66
20	83	76	79	94	91	93	---	---	---	71	63	68
21	84	72	75	95	88	93	79	73	76	74	66	70
22	83	71	74	93	90	92	80	71	76	73	66	70
23	87	70	79	93	86	89	82	73	77	73	68	70
24	88	78	84	88	83	85	78	69	74	74	67	70
25	87	77	80	86	83	84	82	72	77	78	67	70
26	84	77	79	87	80	84	81	75	78	82	68	73
27	86	78	83	88	82	84	83	75	78	82	67	71
28	88	78	84	92	81	86	85	78	81	74	68	71
29	---	---	---	---	---	---	86	79	82	80	69	73
30	---	---	---	---	---	---	88	79	84	80	70	74
31	---	---	---	---	---	---	---	---	---	89	68	77
MONTH	92	53	75	---	---	---	---	---	---	101	61	73

02084472 PAMLICO RIVER AT WASHINGTON, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	91	72	81	67	53	58	60	44	51	90	66	76
2	---	---	---	83	48	56	56	6	43	82	35	64
3	---	---	---	85	58	69	51	10	37	99	29	64
4	---	---	---	85	57	69	56	27	40	94	34	72
5	---	---	---	96	60	79	94	37	55	111	64	87
6	---	---	---	79	61	70	106	66	75	103	71	87
7	---	---	---	89	64	73	95	71	85	108	82	94
8	---	---	---	93	71	82	89	72	79	120	75	88
9	81	66	74	97	70	80	78	62	70	108	51	82
10	82	64	71	108	74	83	75	53	60	101	69	86
11	74	59	67	102	78	88	87	63	68	105	71	86
12	75	66	69	100	79	86	97	71	77	97	68	79
13	69	60	65	91	66	78	97	78	84	95	59	75
14	68	55	62	75	57	65	103	83	90	87	72	80
15	65	53	59	84	61	68	112	83	95	77	51	68
16	85	29	59	96	64	75	114	86	95	57	30	41
17	69	10	48	---	---	---	106	69	85	---	---	---
18	81	4	39	---	---	---	93	63	79	21	5	13
19	94	60	76	---	---	---	86	56	66	115	1	48
20	87	61	73	---	---	---	75	52	60	90	40	58
21	79	62	71	102	5	28	86	57	68	95	43	61
22	69	43	59	103	27	61	81	63	70	97	54	65
23	101	43	61	98	21	63	86	15	61	97	46	57
24	118	78	95	87	11	40	105	27	63	84	29	52
25	108	85	95	67	8	15	---	---	---	70	5	40
26	106	76	91	74	8	47	---	---	---	78	29	56
27	103	76	84	74	8	40	---	---	---	60	34	49
28	103	74	86	70	13	46	---	---	---	65	33	45
29	85	69	75	85	54	73	---	---	---	81	44	63
30	70	60	63	76	42	61	---	---	---	71	38	53
31	---	---	---	64	45	57	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5

LOCATION.--Lat 35°25'52", long 76°50'29", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 5.

PERIOD OF RECORD.--Water years 1989 to 1992, 1999 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.
pH (TOP AND BOTTOM): May 1999 to current year.
WATER TEMPERATURE (TOP): May 1989 to September 1992, May 1999 to current year.
WATER TEMPERATURE (BOTTOM): May 1999 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.
DISSOLVED OXYGEN (MID): May 1989 to September 1992.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to September 1992.

INSTRUMENTATION.--Water-quality monitor from May 1989 to September 1992. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from May 1999 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricane Dennis. It was reinstalled on September 9, 1999. The monitor was removed again on September 14, 1999 to prevent possible destruction during Hurricane Floyd. It was reinstalled on October 21, 1999. The monitor was removed on September 16, 2003, to prevent possible destruction of the equipment during Hurricane Isabel. It was reinstalled on September 20, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	19.6, August 21, October 21, 2002	<0.1, on many days during the period
SALINITY (BOTTOM), ppt	20.8, October 23, 2002	<0.1, on many days during the period
pH (TOP), standard units	9.5, June 8, 2005	6.2, October 22, 23, 24, 1999
pH (BOTTOM), standard units	9.1, May 20, 22, 2004	5.9, October 23, 1999
WATER TEMPERATURE (TOP), °C	33.1, July 31, 1999	0.0, December 3, 1989, January 24, 2003
WATER TEMPERATURE (BOTTOM), °C	31.6, August 15, 2005	0.1, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	18.9, January 13, 2005	<1.0, on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	18.6, January 5, 1992	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.2, January 7	0.1, April 3, 18
SALINITY (BOTTOM), ppt	13.9, January 6, 7	0.1, April 3
pH (TOP), standard units	9.5, June 8	6.6, May 16
pH (BOTTOM), standard units	9.0, March 25	6.5, May 29, 30, 31, June 1, 6, 7
WATER TEMPERATURE (TOP), °C	33.0, July 28	2.2, January 29
WATER TEMPERATURE (BOTTOM), °C	31.6, August 15	2.1, January 29
DISSOLVED OXYGEN (TOP), mg/L	18.9, January 1, 3	0.0, August 8
DISSOLVED OXYGEN (BOTTOM), mg/L	13.7, November 30	0.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	222, August 14	0, August 8
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	137, August 3	0, on many days during the year

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.7	1.5	2.1	13.1	6.2	8.0	9.5	5.6	7.6	7.5	4.6	6.6
2	2.7	1.3	2.0	8.8	7.4	8.1	8.8	5.8	6.4	8.4	5.9	7.4
3	1.8	1.0	1.4	10.0	7.6	8.2	7.3	5.4	6.4	8.3	4.7	7.7
4	1.9	1.1	1.5	---	---	---	7.4	4.1	5.8	7.8	2.8	5.6
5	1.7	1.0	1.2	9.3	8.4	8.7	7.9	2.9	6.0	9.7	5.3	7.8
6	2.6	1.2	1.9	9.2	8.1	8.6	8.9	7.2	7.8	9.4	7.5	8.6
7	2.5	1.4	1.6	---	---	---	9.0	5.8	7.2	13.2	7.3	9.0
8	2.2	1.2	1.6	8.7	8.0	8.4	---	---	---	11.7	8.2	8.9
9	2.1	1.1	1.4	8.8	8.1	8.4	8.5	5.0	6.7	9.2	8.6	9.0
10	1.4	1.1	1.1	---	---	---	---	---	---	9.2	8.5	9.0
11	1.6	1.1	1.3	---	---	---	7.4	5.7	6.7	9.1	8.6	8.9
12	2.5	1.1	1.6	---	---	---	8.0	6.4	7.3	9.4	7.4	8.6
13	8.7	1.7	3.8	8.3	7.3	7.7	7.8	6.0	7.2	11.1	7.6	9.5
14	5.6	3.4	4.0	---	---	---	7.3	5.9	6.3	10.6	8.7	9.7
15	4.8	3.8	4.1	7.8	6.2	6.8	6.7	5.8	6.1	10.3	8.1	9.2
16	6.0	4.3	5.5	7.1	5.6	6.1	7.5	5.7	6.2	10.0	7.8	8.9
17	6.3	4.8	5.7	---	---	---	7.1	4.8	5.4	8.5	5.7	6.9
18	7.1	4.6	5.3	---	---	---	8.7	4.1	5.5	7.8	5.9	7.1
19	6.4	4.8	5.5	---	---	---	8.6	3.8	6.3	9.7	5.4	7.0
20	5.6	4.6	4.9	---	---	---	8.1	4.6	6.1	7.1	4.5	5.7
21	5.6	4.4	4.8	---	---	---	8.0	7.3	7.7	8.8	3.9	5.7
22	6.5	4.3	4.8	---	---	---	8.0	7.5	7.8	7.6	4.7	6.0
23	6.3	3.8	4.9	---	---	---	8.0	7.7	7.9	6.2	3.0	4.6
24	7.2	3.8	5.7	9.4	7.4	8.4	8.1	7.7	7.9	7.3	5.2	6.1
25	7.7	4.1	5.9	9.3	7.2	8.0	8.6	7.4	7.9	10	6.2	7.0
26	8.4	4.9	6.9	8.7	6.6	7.5	8.4	4.7	6.7	7.9	5.6	6.6
27	8.2	5.9	7.3	9.4	6.8	7.9	8.5	4.5	5.6	8.7	5.5	6.8
28	9.5	5.2	8.0	9.4	6.9	7.5	8.8	5.7	7.1	8.8	6.2	7.3
29	8.8	6.4	7.6	9.2	6.9	8.0	8.3	5.4	6.5	7.7	6.5	7.1
30	7.3	5.9	6.5	9.5	5.9	8.1	6.8	5.6	6.2	9.0	4.6	5.7
31	7.8	6.0	7.0	---	---	---	7.8	6.0	6.9	8.0	4.4	5.6
MONTH	9.5	1.0	4.1	---	---	---	---	---	---	13.2	2.8	7.4
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	4.7	6.0	8.5	7.0	7.5	2.1	0.6	1.0	5.7	4.3	5.2
2	8.8	5.4	7.5	7.9	5.2	6.8	1.6	0.5	1.1	5.3	4.7	4.9
3	8.5	4.8	6.2	6.0	4.8	5.4	1.6	0.1	0.4	5.7	4.5	4.9
4	5.8	3.3	4.3	7.3	4.3	5.2	1.2	0.6	0.9	5.9	4.6	5.0
5	9.0	4.9	6.9	6.0	4.5	5.3	2.3	0.3	0.7	5.8	5.0	5.3
6	9.5	4.2	6.5	5.5	3.6	4.2	0.8	0.3	0.5	5.7	3.2	5.1
7	9.5	6.7	8.6	5.1	4.1	4.5	1.8	0.4	1.1	4.4	3.2	3.8
8	9.7	7.1	8.5	8.4	4.8	6.2	1.7	0.3	1.0	4.3	3.1	3.6
9	9.4	4.8	8.2	7.4	6.5	6.9	2.7	0.5	1.4	6.4	2.5	3.3
10	8.6	4.7	6.4	7.5	6.2	6.7	2.5	0.6	0.9	4.6	3.2	3.7
11	9.7	6.4	8.1	7.5	5.6	6.4	2.8	0.5	0.8	4.3	2.9	3.4
12	10.7	8.6	9.7	8.0	5.6	6.9	3.2	1.1	1.8	5.0	2.1	2.7
13	12.2	8.6	9.5	7.1	6.1	6.7	2.2	0.8	1.6	4.2	2.8	3.3
14	10.7	8.9	9.7	6.9	6.4	6.7	2.0	1.0	1.6	3.3	2.1	2.8
15	10.1	8.0	8.9	6.6	4.7	5.9	2.4	0.8	1.7	2.8	1.9	2.3
16	9.8	7.6	8.5	7.3	4.0	5.2	1.8	0.6	1.0	5.6	1.7	2.3
17	8.5	7.1	7.7	7.3	5.8	6.4	0.7	0.3	0.4	3.6	2.2	2.9
18	8.6	6.8	7.7	6.3	4.5	5.7	1.2	0.1	0.3	3.8	2.2	2.8
19	10.9	6.8	8.0	4.7	3.5	3.9	0.9	0.2	0.3	2.8	2.0	2.3
20	10.6	8.3	9.0	3.5	1.6	2.3	2.2	0.2	0.5	2.5	1.8	2.2
21	9.2	7.8	8.4	7.6	1.0	3.1	4.7	0.8	2.1	3.2	2.2	2.6
22	9.1	7.7	8.1	4.4	2.6	3.3	5.9	2.7	3.1	3.2	1.7	2.0
23	9.3	7.7	8.3	4.3	1.3	2.6	3.9	2.6	3.2	2.4	1.8	2.1
24	9.1	7.8	8.6	2.6	1.2	1.6	4.9	2.3	3.7	2.3	1.6	1.9
25	8.3	7.6	8.0	3.0	1.3	2.1	5.3	4.3	5.0	3.0	1.5	2.1
26	8.6	6.6	7.7	1.6	1.3	1.4	5.4	4.7	5.0	2.9	1.6	2.3
27	9.5	5.4	7.4	1.3	1.2	1.2	5.2	3.5	4.3	3.1	1.9	2.3
28	9.3	7.0	8.3	1.7	0.7	1.2	4.7	3.7	4.0	2.8	1.9	2.3
29	---	---	---	2.1	0.9	1.5	5.7	3.7	4.8	2.7	1.9	2.2
30	---	---	---	3.3	0.9	1.4	5.8	4.6	5.2	4.2	2.1	2.8
31	---	---	---	1.9	0.7	1.4	---	---	---	5.5	2.6	3.6
MONTH	12.2	3.3	7.9	8.5	0.7	4.4	5.9	0.1	2.0	6.4	1.5	3.2

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.9	3.7	4.3	4.4	3.5	3.8	6.5	6.0	6.3	5.9	5.0	5.5
2	5.6	4.1	4.9	5.0	3.7	3.9	6.4	6.0	6.3	5.8	4.8	5.3
3	4.2	3.4	4.0	4.4	3.8	4.1	6.5	5.4	6.0	6.4	4.8	5.3
4	4.5	3.3	3.9	4.6	3.7	4.1	6.2	4.9	5.4	6.6	5.7	6.2
5	6.0	3.4	4.1	4.0	3.6	3.9	6.2	4.8	5.2	6.8	6.2	6.6
6	5.0	3.3	3.9	4.3	3.6	3.8	5.8	4.5	5.0	6.8	6.3	6.5
7	4.8	3.2	3.7	4.9	3.6	4.0	6.7	4.5	5.4	6.7	6.4	6.5
8	5.7	3.1	3.6	4.7	3.6	4.0	6.6	4.9	5.5	6.5	6.4	6.4
9	5.1	3.6	4.2	4.6	3.5	4.0	5.8	5.1	5.4	6.7	6.2	6.4
10	4.4	3.4	3.9	4.4	3.6	3.9	5.9	4.9	5.4	6.8	6.3	6.5
11	4.1	3.5	3.8	4.0	3.6	3.8	5.8	4.4	5.1	---	---	---
12	4.5	3.4	3.8	4.0	3.5	3.6	6.7	4.1	4.8	---	---	---
13	4.0	2.9	3.4	4.7	3.6	4.1	5.9	4.7	5.2	---	---	---
14	3.0	2.3	2.7	4.9	4.4	4.6	6.0	4.8	5.2	---	---	---
15	2.7	2.0	2.4	4.7	4.4	4.5	5.6	4.5	4.8	---	---	---
16	3.8	1.8	2.2	4.6	4.3	4.5	6.3	4.5	5.4	---	---	---
17	4.7	2.5	3.5	4.5	3.9	4.2	5.8	5.0	5.4	---	---	---
18	6.2	2.9	4.0	4.6	4.1	4.4	6.2	5.4	5.8	---	---	---
19	5.4	4.3	4.7	4.8	4.1	4.5	6.0	5.1	5.5	---	---	---
20	5.0	4.5	4.7	4.9	4.5	4.7	5.6	4.8	5.2	6.9	5.4	6.3
21	4.6	4.3	4.5	5.3	4.4	4.7	5.5	3.9	4.7	7.6	5.4	6.1
22	4.5	4.3	4.4	5.3	4.4	4.8	5.3	3.9	4.4	7.3	6.3	6.7
23	5.6	4.3	4.7	6.0	4.8	5.2	5.7	3.8	4.6	6.7	6.1	6.4
24	5.1	4.7	4.9	6.1	5.2	5.5	7.1	4.6	5.4	7.8	5.7	6.2
25	5.4	4.8	5.1	5.9	5.7	5.8	6.2	5.7	6.0	7.2	6.7	6.9
26	5.6	4.5	5.1	5.9	5.6	5.7	6.1	5.4	5.9	7.1	6.3	6.7
27	5.1	4.6	4.8	6.3	5.3	5.7	6.4	5.5	6.0	7.1	6.5	6.8
28	5.1	4.4	4.7	6.5	5.4	5.8	6.3	5.5	5.9	7.5	6.6	7.1
29	4.9	4.1	4.6	7.0	6.4	6.6	6.5	5.6	6.1	7.3	6.4	6.8
30	4.7	3.8	4.2	6.6	6.0	6.3	6.3	5.4	5.6	8.0	6.7	7.4
31	---	---	---	6.5	6.0	6.3	5.9	5.3	5.6	---	---	---
MONTH	6.2	1.8	4.1	7.0	3.5	4.7	7.1	3.8	5.4	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.8	1.6	2.3	13.1	9.0	12.3	10.0	5.9	8.5	10.9	9.5	10.4
2	2.8	1.6	2.2	12.0	8.6	10.8	9.5	6.4	8.5	11.1	10.2	10.8
3	4.8	1.3	2.3	13.0	9.0	11.4	9.9	6.0	7.9	12.1	10.4	11.4
4	4.3	1.3	2.6	---	---	---	10.2	7.2	9.9	12.9	10.8	12.1
5	5.6	1.1	3.4	10.3	8.1	9.2	10	8.6	9.6	13.3	10	12.6
6	6.8	1.7	3.3	10.0	8.5	9.4	9.9	9.3	9.7	13.9	9.8	13.1
7	6.6	2.2	4.8	---	---	---	10	8.0	9.6	13.9	13.1	13.7
8	6.8	3.1	5.2	9.7	8.0	8.4	---	---	---	13.5	10.6	13.1
9	8.3	1.9	4.8	9.4	8.1	8.5	10.9	9.7	10.5	13.6	12.8	13.4
10	8.3	4.3	7.5	---	---	---	---	---	---	13.4	11.7	13.0
11	8.3	3.0	7.7	---	---	---	10.7	7.3	9.3	13.5	10.4	12.9
12	8.4	6.8	7.8	---	---	---	10.7	7.3	8.3	13.3	11.3	13.0
13	8.8	4.5	7.6	9.0	7.4	7.9	10.4	6.0	7.7	13.2	10.1	12.3
14	9.9	3.5	6.5	---	---	---	8.5	6.0	6.9	12.6	7.1	10.3
15	10.7	4.5	9.5	9.5	7.7	8.8	8.2	5.8	7.0	10.2	7.0	9.1
16	13.0	4.4	9.6	10.0	9.2	9.7	8.8	7.1	8.3	9.9	8.0	9.0
17	12.8	6.1	9.8	---	---	---	9.3	7.2	8.5	10.1	6.5	8.8
18	12.1	6.9	10.8	---	---	---	10.1	8.5	9.2	10.3	7.3	9.1
19	11.1	5.9	8.9	---	---	---	10.1	6.2	9.4	10.6	7.6	10.2
20	11.0	6.0	9.8	---	---	---	8.3	4.9	6.7	11.5	6.6	10
21	11.2	10.4	11.1	---	---	---	9.4	7.7	8.4	11.6	9.5	10.8
22	11.2	9.3	10.8	---	---	---	10.6	7.8	8.7	10.6	4.9	9.5
23	10.9	7.1	9.7	---	---	---	9.8	7.7	8.5	9.0	3.0	5.3
24	10.4	7.9	9.5	10.9	9.0	10.5	8.0	7.6	7.8	8.8	6.5	7.8
25	10.2	8.3	9.6	10.6	7.3	8.7	8.6	7.4	8.0	10.4	6.7	8.4
26	9.8	7.1	8.9	10.0	7.3	9.3	8.5	5.4	7.0	10.4	7.0	9.2
27	9.5	8.5	9.2	10.3	9.5	9.9	8.8	6.1	8.0	10.6	7.2	9.3
28	9.6	8.5	9.3	10.1	7.4	8.6	8.9	8.3	8.7	10.5	6.4	9.1
29	9.1	7.7	8.7	9.7	7.3	9.1	9.3	7.0	8.5	9.8	7.1	8.7
30	11.3	8.0	10	10.6	9.3	9.9	10.4	9.0	10.0	9.7	4.8	8.4
31	12.7	8.6	11.2	---	---	---	10.6	9.7	10.2	9.1	6.8	8.2
MONTH	13.0	1.1	7.6	---	---	---	---	---	---	13.9	3.0	10.4
		FEBRUARY			MARCH			APRIL			MAY	
1	10.1	7.9	8.8	8.9	7.0	7.8	3.2	0.8	2.1	5.7	4.5	5.3
2	10.8	7.3	9.0	8.6	6.0	7.2	1.8	0.5	1.2	5.6	4.9	5.3
3	10.7	8.5	9.7	8.3	5.2	6.3	1.8	0.1	0.5	6.0	4.5	5.1
4	10.6	8.6	9.5	9.6	8.1	9.1	3.6	0.7	1.3	6.1	4.9	5.3
5	10	8.0	9.7	10.2	4.8	8.3	5.9	0.8	3.8	5.8	5.0	5.3
6	9.8	9.6	9.8	10.8	6.5	9.9	4.8	0.9	2.7	5.7	3.2	5.1
7	10.9	9.7	10.1	10.9	6.5	9.7	6.1	1.6	4.1	5.9	3.2	4.7
8	11.0	9.0	10.1	10.6	5.3	8.1	5.1	0.5	2.5	5.9	3.5	4.6
9	11.0	9.5	10.6	8.0	6.7	7.3	2.8	0.5	1.6	6.8	3.7	5.6
10	11.3	6.0	10	9.5	6.5	7.4	5.4	0.8	2.3	5.4	3.6	4.8
11	11.8	6.8	10.2	9.7	5.6	7.5	5.3	3.3	4.3	4.4	3.3	3.9
12	12.2	9.7	10.9	8.3	5.6	7.0	4.4	1.3	2.9	5.2	2.4	3.8
13	13.0	10.6	12.0	7.8	6.8	7.1	2.4	0.9	1.7	5.0	2.9	3.7
14	12.1	9.7	10.7	6.9	6.4	6.8	2.1	1.1	1.7	5.0	2.7	3.6
15	12.0	10.1	11.2	7.8	6.4	6.7	2.4	0.9	1.8	5.4	2.0	3.9
16	12.1	8.2	10.2	8.0	5.4	7.1	1.8	0.6	1.1	5.6	3.1	5.0
17	12.4	8.1	11.7	7.3	5.8	6.5	2.8	0.4	1.4	5.1	2.3	3.6
18	12.1	6.9	9.0	6.8	5.3	5.9	4.1	0.8	2.8	4.1	2.7	3.4
19	11.3	7.7	10.2	7.1	4.7	6.5	4.5	2.3	4.1	3.8	2.2	2.9
20	11.0	9.1	9.8	7.6	6.9	7.3	8.0	3.7	5.9	3.8	2.3	2.9
21	10	8.1	9.2	7.7	5.7	7.5	12.0	8.0	10.2	3.5	2.2	2.7
22	10.9	8.1	9.3	7.0	3.7	6.0	10.7	7.4	8.8	4.1	1.7	2.6
23	10.3	7.8	9.2	6.2	1.4	3.7	9.3	2.6	5.7	4.1	1.9	3.0
24	9.3	7.8	8.7	6.8	1.6	5.6	9.5	2.3	5.1	4.8	1.7	3.3
25	9.4	7.8	8.6	5.4	1.4	4.0	5.7	4.6	5.2	4.1	2.1	2.9
26	10	8.8	9.6	5.6	1.5	3.7	6.4	5.1	5.6	4.1	1.8	2.9
27	10.1	8.6	9.8	5.7	3.1	4.5	7.6	4.0	5.3	4.9	2.6	3.8
28	9.5	7.1	8.5	5.6	1.0	3.0	6.4	3.8	5.2	6.8	2.8	4.9
29	---	---	---	2.6	1.2	1.8	6.7	4.7	6.1	7.8	5.1	7.3
30	---	---	---	4.6	1.8	3.0	6.4	4.8	5.6	9.7	7.6	8.6
31	---	---	---	3.0	0.8	1.7	---	---	---	9.7	6.3	8.3
MONTH	13.0	6.0	9.9	10.9	0.8	6.3	12.0	0.1	3.8	9.7	1.7	4.5

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	4.1	5.5	6.0	4.2	5.2	8.3	6.0	6.8	6.4	5.5	5.9
2	6.6	4.3	5.2	6.4	3.8	5.6	7.6	6.2	6.5	7.3	6.4	7.0
3	5.3	3.6	4.3	6.0	3.9	5.0	8.0	5.9	6.7	7.3	4.9	6.7
4	6.2	4.9	5.8	5.0	3.7	4.3	7.9	6.0	7.4	7.0	6.0	6.3
5	6.4	4.3	5.6	4.4	3.7	4.1	7.4	6.0	6.9	6.8	6.2	6.6
6	5.9	4.6	5.4	5.1	3.7	4.1	7.2	6.0	6.8	6.8	6.3	6.6
7	6.0	4.2	5.3	5.6	4.0	5.0	7.3	6.0	7.0	6.7	6.4	6.5
8	6.5	4.1	5.8	5.4	3.6	4.5	6.8	5.3	6.3	6.5	6.4	6.5
9	5.8	4.4	5.2	5.4	4.1	4.6	6.4	5.3	5.9	6.7	6.2	6.4
10	4.8	3.9	4.3	5.6	3.8	5.0	6.9	5.3	6.0	6.8	6.3	6.6
11	4.5	3.7	4.1	6.0	4.3	5.3	7.4	5.1	6.5	---	---	---
12	4.6	3.8	4.3	6.5	3.6	5.2	7.2	5.6	6.7	---	---	---
13	4.6	3.6	4.0	6.3	3.9	5.0	6.7	5.6	6.5	---	---	---
14	6.4	3.0	4.5	5.4	4.7	5.1	6.5	5.4	6.1	---	---	---
15	6.5	3.5	5.9	5.4	4.6	5.1	6.7	4.9	5.8	---	---	---
16	6.5	6.0	6.4	6.1	4.5	5.1	6.9	5.0	6.2	---	---	---
17	7.1	5.6	6.6	7.8	4.3	6.2	5.9	5.1	5.5	---	---	---
18	7.3	5.3	6.7	8.6	4.5	7.3	6.4	5.6	6.0	---	---	---
19	6.8	4.4	4.9	9.8	6.2	8.5	6.0	5.3	5.7	---	---	---
20	5.0	4.6	4.7	9.8	7.1	9.4	6.2	4.9	5.6	7.8	6.3	7.2
21	5.7	4.5	4.7	10.1	9.6	10	6.8	5.5	6.1	8.8	5.5	7.5
22	5.9	4.4	4.9	10	4.8	9.6	7.3	4.9	6.5	8.2	6.6	7.3
23	6.0	4.5	5.3	9.9	5.2	9.4	7.4	5.9	7.0	8.8	6.2	7.1
24	5.3	4.8	5.0	9.7	8.8	9.5	7.8	6.0	7.2	9.5	6.0	8.1
25	5.4	4.8	5.1	9.4	6.2	8.9	6.3	5.9	6.1	8.3	7.0	7.5
26	5.7	4.7	5.2	9.4	6.7	9.0	6.2	5.6	6.0	7.8	6.8	7.2
27	5.5	5.0	5.2	9.3	6.5	8.8	6.5	5.6	6.1	8.8	6.5	7.3
28	5.4	4.6	5.1	9.2	7.5	8.9	6.3	5.5	5.9	8.8	6.8	7.7
29	5.4	4.4	5.1	9.0	6.4	7.5	6.7	5.7	6.2	7.3	6.6	6.9
30	4.9	4.0	4.6	8.5	6.1	6.7	6.6	5.5	6.0	8.1	6.8	7.7
31	---	---	---	8.2	6.0	6.6	6.5	5.6	6.0	---	---	---
MONTH	7.3	3.0	5.2	10.1	3.6	6.6	8.3	4.9	6.3	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.3	7.6	8.5	7.6	8.1	8.7	8.2	8.4	8.7	8.0	8.3
2	8.4	7.4	7.8	8.4	7.8	8.0	8.6	7.5	8.0	8.8	8.3	8.5
3	8.3	7.2	7.6	8.2	7.3	7.8	8.1	7.8	7.9	8.7	8.3	8.4
4	8.8	7.4	8.0	---	---	---	8.6	7.7	8.0	8.6	8.2	8.5
5	8.4	7.6	8.0	7.8	7.3	7.6	8.7	7.8	8.1	8.3	7.9	8.2
6	8.5	7.5	7.8	7.9	7.5	7.8	8.3	7.3	7.8	8.3	8.0	8.1
7	8.5	7.6	8.0	---	---	---	8.4	7.3	7.9	8.3	7.8	8.1
8	8.6	7.6	8.1	7.9	7.8	7.9	---	---	---	8.4	7.9	8.2
9	8.6	7.9	8.2	7.9	7.8	7.9	8.2	7.4	7.9	8.4	8.2	8.3
10	8.7	8.0	8.3	---	---	---	---	---	---	8.6	8.3	8.5
11	8.6	8.0	8.3	---	---	---	8.3	8.0	8.2	8.6	8.5	8.6
12	8.6	7.4	8.2	---	---	---	8.3	7.9	8.1	8.8	8.5	8.6
13	8.2	6.8	7.5	8.0	7.8	7.9	8.3	8.0	8.1	8.8	7.8	8.4
14	7.7	7.0	7.4	---	---	---	8.2	7.8	8.1	8.5	7.6	8.2
15	8.0	7.3	7.7	8.3	7.9	8.1	8.2	7.8	8.0	8.4	8.0	8.2
16	8.5	7.3	7.7	8.4	8.2	8.3	8.3	8.0	8.1	8.4	8.0	8.2
17	8.6	7.6	8.2	---	---	---	8.5	8.2	8.2	8.2	7.8	8.0
18	8.5	7.7	8.3	---	---	---	8.4	7.4	8.2	8.3	7.9	8.1
19	8.7	7.9	8.3	---	---	---	8.7	7.5	8.2	8.4	8.0	8.2
20	8.6	8.4	8.5	---	---	---	7.9	7.4	7.6	8.2	7.9	8.0
21	8.6	8.3	8.5	---	---	---	8.2	7.7	7.8	8.2	7.7	8.0
22	8.5	8.2	8.4	---	---	---	8.0	7.8	7.9	8.2	7.8	8.0
23	8.6	8.2	8.3	---	---	---	8.1	7.9	8.0	7.8	7.1	7.2
24	8.5	7.7	8.2	8.4	7.7	8.1	8.0	7.8	7.9	7.5	7.2	7.3
25	8.8	7.4	8.1	8.5	7.7	8.1	8.0	7.8	7.9	7.8	7.4	7.5
26	8.3	7.4	7.8	8.4	7.9	8.1	7.9	7.6	7.9	7.8	7.6	7.7
27	8.6	7.3	7.8	8.4	7.9	8.1	7.8	7.6	7.7	7.9	7.6	7.7
28	8.7	7.1	7.5	8.4	8.0	8.3	8.3	7.7	7.9	7.9	7.7	7.8
29	8.6	7.4	8.0	8.5	7.9	8.2	8.1	7.9	8.0	7.8	7.7	7.8
30	8.7	7.8	8.4	8.6	8.1	8.4	8.1	7.9	8.0	7.8	7.4	7.6
31	8.7	7.8	8.2	---	---	---	8.4	7.9	8.1	7.7	7.4	7.5
MONTH	8.8	6.8	8.0	---	---	---	---	---	---	8.8	7.1	8.1
		FEBRUARY			MARCH			APRIL			MAY	
1	7.6	7.5	7.6	8.2	8.0	8.1	8.6	7.8	8.1	7.9	7.4	7.6
2	7.8	7.6	7.7	8.1	7.9	8.0	7.9	7.4	7.6	8.0	7.2	7.7
3	7.8	7.6	7.6	8.2	7.9	8.0	7.6	7.3	7.4	8.2	7.3	7.6
4	7.6	7.4	7.5	8.6	8.0	8.3	7.6	7.3	7.5	7.8	7.3	7.6
5	7.8	7.5	7.6	8.6	8.3	8.5	7.7	7.3	7.4	7.8	7.5	7.6
6	7.8	7.6	7.7	8.7	8.4	8.5	7.5	7.1	7.3	7.6	7.4	7.5
7	7.9	7.6	7.8	8.6	8.2	8.4	7.6	7.3	7.4	8.0	7.4	7.6
8	7.9	7.5	7.8	8.5	7.5	8.0	7.6	7.1	7.3	8.2	7.7	7.9
9	8.1	7.6	7.8	8.2	7.5	7.9	7.5	7.2	7.3	8.6	7.1	8.1
10	8.0	7.4	7.7	8.5	8.0	8.2	8.3	7.3	7.7	8.3	7.3	7.8
11	7.7	7.4	7.6	8.6	8.1	8.4	8.7	7.5	8.0	8.5	7.3	7.8
12	7.9	7.6	7.8	8.2	7.8	8.0	8.4	7.6	8.1	8.9	6.8	8.3
13	8.0	7.8	7.9	8.3	7.9	8.1	8.0	7.5	7.7	8.1	7.0	7.7
14	8.1	7.8	7.9	8.3	8.0	8.1	7.7	7.4	7.5	8.7	7.4	7.9
15	8.5	8.0	8.1	8.7	8.0	8.4	7.8	7.5	7.7	8.8	7.7	8.2
16	8.5	8.0	8.3	8.7	7.9	8.5	8.2	7.5	7.8	8.8	6.6	8.1
17	8.5	8.2	8.3	8.1	7.7	7.9	8.6	7.7	8.1	8.7	7.2	8.2
18	8.4	8.2	8.3	8.6	7.8	8.1	8.7	7.6	8.3	8.8	7.7	8.3
19	8.4	8.0	8.2	8.9	8.6	8.7	8.6	7.9	8.3	8.4	7.8	8.3
20	8.3	7.9	8.2	9.3	8.4	9.0	9.0	7.8	8.5	8.3	7.6	7.9
21	8.3	8.2	8.2	9.2	7.5	8.6	8.5	7.4	7.7	8.6	7.5	8.0
22	8.3	8.2	8.2	9.1	8.4	8.8	8.5	7.4	8.1	8.6	7.9	8.3
23	8.3	8.0	8.2	8.9	7.8	8.6	8.4	7.6	8.1	8.8	7.8	8.4
24	8.2	8.1	8.2	8.9	7.7	8.3	8.0	7.5	7.7	8.9	8.3	8.6
25	8.2	8.0	8.1	9.1	8.4	8.8	8.1	7.6	7.8	8.5	7.6	8.1
26	8.4	7.9	8.2	9.0	8.5	8.8	8.1	7.7	7.9	8.3	7.4	7.8
27	8.5	8.2	8.4	9.1	8.7	8.9	8.6	7.7	8.2	8.6	7.5	8.1
28	8.3	8.2	8.2	9.0	7.6	8.6	8.4	7.5	8.0	8.5	7.7	8.2
29	---	---	---	8.8	7.6	8.3	8.3	7.5	8.0	8.6	7.4	8.2
30	---	---	---	8.8	7.4	8.2	8.2	7.4	7.7	8.4	7.3	7.9
31	---	---	---	8.8	7.8	8.3	---	---	---	8.3	7.2	7.8
MONTH	8.5	7.4	8.0	9.3	7.4	8.4	9.0	7.1	7.8	8.9	6.6	8.0

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.2	7.7	8.9	7.8	8.3	8.6	7.7	8.2	9.1	8.3	8.7
2	7.4	7.1	7.3	8.8	7.2	8.3	8.8	8.0	8.5	9.4	8.6	9.0
3	8.5	7.2	7.6	8.6	7.6	8.1	9.0	8.5	8.7	9.1	8.0	8.9
4	8.1	7.1	7.6	8.9	7.4	8.3	9.0	7.6	8.8	8.9	8.5	8.7
5	8.7	6.8	7.9	8.5	7.8	8.1	9.3	7.7	9.0	8.7	8.2	8.4
6	8.6	7.0	8.0	8.7	7.5	8.2	9.2	8.2	9.0	8.8	8.3	8.5
7	9.4	7.2	8.4	8.5	7.3	8.1	9.2	7.5	8.6	8.7	8.2	8.4
8	9.5	7.2	8.9	8.2	7.0	7.9	8.8	7.3	8.2	8.5	8.2	8.3
9	8.9	7.9	8.4	8.5	7.3	7.9	8.5	7.4	8.1	8.7	7.9	8.4
10	8.9	7.4	8.0	8.7	7.0	8.1	9.1	7.4	8.3	8.5	8.1	8.3
11	8.4	7.5	7.8	8.9	7.7	8.5	9.3	7.3	8.9	---	---	---
12	8.2	7.4	7.8	8.8	8.2	8.5	9.2	7.5	8.8	---	---	---
13	8.6	7.5	7.9	8.5	7.3	7.8	9.3	7.9	8.7	---	---	---
14	8.8	7.8	8.2	8.2	7.2	7.5	9.3	8.4	8.7	---	---	---
15	8.8	7.7	8.2	8.3	7.6	7.9	9.2	8.7	8.9	---	---	---
16	8.4	7.4	8.1	8.8	7.9	8.3	9.0	8.1	8.7	---	---	---
17	7.7	6.8	7.3	8.8	8.2	8.5	8.8	8.3	8.6	---	---	---
18	8.2	6.7	7.7	8.5	8.1	8.3	8.8	8.3	8.5	---	---	---
19	7.6	6.8	7.3	8.6	8.0	8.3	9.3	8.3	8.6	---	---	---
20	7.5	7.2	7.3	8.6	7.8	8.3	9.2	8.2	8.8	8.9	7.4	8.3
21	8.2	7.2	7.6	8.8	8.0	8.4	9.4	8.3	9.0	8.6	7.1	8.2
22	8.4	7.6	8.0	8.7	7.6	8.2	9.2	8.2	8.9	8.4	7.3	8.1
23	8.4	7.1	8.0	8.6	7.4	8.1	9.1	7.9	8.7	8.7	7.7	8.2
24	8.6	7.4	7.9	8.7	7.9	8.3	8.8	7.4	8.6	8.5	7.3	8.3
25	8.2	7.5	7.9	8.8	7.7	8.3	8.8	8.1	8.4	8.4	7.9	8.1
26	8.1	7.6	7.9	9.0	8.1	8.5	9.1	8.3	8.6	8.3	7.3	8.0
27	8.6	7.6	8.0	8.7	7.5	8.4	8.8	8.5	8.7	8.5	7.7	8.2
28	8.5	7.4	8.0	8.7	8.2	8.6	8.7	8.4	8.6	8.4	7.9	8.1
29	8.0	7.2	7.6	8.4	7.7	8.1	8.6	8.5	8.6	8.3	7.7	8.0
30	8.8	7.2	8.0	8.4	7.9	8.1	8.7	8.2	8.5	8.0	7.5	7.7
31	---	---	---	8.6	7.7	8.1	8.7	8.5	8.6	---	---	---
MONTH	9.5	6.7	7.9	9.0	7.0	8.2	9.4	7.3	8.6	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.0	7.4	7.7	7.2	7.3	8.4	7.8	8.1	7.7	7.4	7.6
2	8.3	7.3	7.7	7.7	7.1	7.2	8.2	7.6	7.8	7.6	7.4	7.6
3	7.5	6.8	7.2	7.4	6.9	7.1	8.1	7.5	7.8	7.6	7.4	7.5
4	7.4	6.7	7.0	---	---	---	8.0	7.4	7.5	7.6	7.3	7.5
5	7.7	6.7	6.9	7.6	7.2	7.4	7.6	7.3	7.4	7.9	7.4	7.5
6	8.1	6.7	7.3	7.6	7.2	7.4	7.4	7.2	7.3	8.2	7.5	7.6
7	7.8	6.7	6.9	---	---	---	7.9	7.2	7.3	7.8	7.5	7.6
8	7.0	6.7	6.8	7.8	7.5	7.8	---	---	---	8.2	7.4	7.5
9	8.2	6.7	7.0	7.8	7.7	7.8	7.5	7.2	7.4	7.5	7.2	7.3
10	7.0	6.8	7.0	---	---	---	---	---	---	7.6	7.1	7.2
11	7.2	6.8	7.0	---	---	---	8.3	7.1	7.4	8.0	7.1	7.2
12	7.0	6.8	6.8	---	---	---	8.4	7.3	8.0	7.3	7.0	7.1
13	7.2	6.8	6.9	7.8	7.5	7.8	8.4	7.3	8.1	8.4	7.0	7.4
14	7.3	6.8	7.0	---	---	---	8.2	7.8	8.1	8.5	7.0	7.9
15	7.5	6.8	7.0	7.9	7.8	7.8	8.3	7.9	8.1	8.6	7.9	8.3
16	7.7	6.8	7.1	7.9	7.6	7.7	8.1	7.9	8.0	8.5	8.1	8.3
17	8.1	6.8	7.2	---	---	---	8.2	7.6	7.9	8.3	8.0	8.1
18	7.5	6.8	7.0	---	---	---	7.8	7.6	7.7	8.3	8.0	8.1
19	8.0	6.8	7.1	---	---	---	8.3	7.5	7.6	8.3	7.8	8.0
20	8.1	6.8	7.0	---	---	---	8.0	7.6	7.8	8.2	7.6	7.8
21	7.1	7.0	7.0	---	---	---	8.3	7.7	7.9	7.7	7.5	7.6
22	7.2	7.0	7.1	---	---	---	8.3	7.5	7.9	7.9	7.4	7.5
23	7.5	7.0	7.1	---	---	---	8.2	7.4	7.8	7.8	7.2	7.4
24	7.8	6.9	7.1	7.6	7.4	7.5	8.1	8.0	8.1	7.8	7.5	7.7
25	7.3	6.9	7.0	8.1	7.5	7.8	8.1	7.9	8.1	7.8	7.5	7.7
26	7.6	6.9	7.2	8.0	7.8	7.9	8.1	7.9	8.0	7.9	7.6	7.7
27	7.3	7.0	7.2	7.9	7.6	7.7	8.0	7.8	7.9	8.0	7.6	7.8
28	7.3	7.1	7.2	8.1	7.6	7.9	7.9	7.8	7.9	8.0	7.6	7.8
29	7.6	7.1	7.2	8.1	7.8	7.9	8.0	7.7	7.9	7.9	7.6	7.8
30	7.6	7.1	7.1	8.0	7.7	7.9	7.8	7.6	7.7	7.9	7.6	7.7
31	7.3	7.0	7.1	---	---	---	7.8	7.4	7.6	7.9	7.6	7.7
MONTH	8.3	6.7	7.1	---	---	---	---	---	---	8.6	7.0	7.7
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.6	7.7	8.2	8.0	8.1	8.2	7.2	7.5	7.8	7.4	7.5
2	7.9	7.3	7.8	8.1	7.9	8.0	7.8	7.3	7.5	7.7	7.1	7.3
3	7.9	7.3	7.6	8.2	7.9	8.0	7.5	7.2	7.3	8.0	7.2	7.5
4	7.8	7.5	7.7	8.1	7.8	7.9	7.4	7.0	7.3	7.8	7.2	7.4
5	7.8	7.6	7.7	8.6	7.7	7.9	7.4	7.1	7.2	7.8	7.5	7.6
6	7.8	7.6	7.7	8.3	7.5	7.7	7.5	6.9	7.0	7.7	7.4	7.6
7	7.8	7.5	7.6	8.4	7.4	7.7	7.6	6.9	7.1	7.6	7.4	7.5
8	7.7	7.5	7.6	8.3	7.5	7.7	7.4	6.8	7.1	8.1	7.1	7.6
9	7.6	7.5	7.5	8.0	7.5	7.8	7.6	7.2	7.4	7.5	7.0	7.2
10	7.7	7.5	7.6	8.3	7.5	7.9	7.9	6.7	7.3	7.9	6.9	7.1
11	7.8	7.5	7.7	8.4	7.4	8.0	7.6	6.8	7.0	7.9	6.8	7.3
12	8.0	7.6	7.8	8.2	7.6	7.9	8.2	6.9	7.5	8.3	6.8	7.2
13	8.0	7.6	7.7	8.1	7.7	7.9	8.0	7.5	7.8	8.1	6.9	7.4
14	8.1	7.5	7.8	8.2	7.9	8.0	7.7	7.4	7.6	7.9	6.8	7.3
15	8.1	7.3	7.6	8.2	7.3	7.9	7.9	7.5	7.7	8.5	6.7	7.1
16	8.4	7.2	7.8	8.3	7.3	7.7	8.2	7.5	7.8	7.3	6.7	6.8
17	8.3	7.3	7.4	7.9	7.6	7.8	8.3	7.4	7.7	8.5	6.7	7.4
18	8.4	7.3	8.1	8.3	7.5	7.9	7.9	7.2	7.3	8.6	6.8	8.1
19	8.4	7.7	8.0	8.4	7.4	7.7	7.4	7.1	7.2	8.2	6.9	7.7
20	8.3	7.8	8.0	7.6	7.4	7.5	7.2	7.0	7.2	7.8	6.8	7.3
21	8.3	7.6	8.0	8.1	7.4	7.5	7.3	7.2	7.3	8.4	7.4	7.7
22	8.3	7.5	8.0	8.8	7.1	7.6	7.2	7.1	7.2	8.2	6.8	7.6
23	8.4	7.6	8.1	8.7	7.1	8.1	8.3	6.9	7.4	8.5	6.6	7.5
24	8.3	8.1	8.2	8.1	7.0	7.2	8.0	7.0	7.5	8.5	6.6	7.2
25	8.2	7.8	8.1	9.0	7.0	7.6	8.0	7.5	7.7	8.1	6.6	7.4
26	8.2	7.9	8.1	8.6	6.9	7.6	8.0	7.3	7.7	8.0	7.0	7.3
27	8.3	7.8	8.0	8.2	6.8	7.2	8.4	7.0	7.6	7.2	6.8	6.9
28	8.3	8.1	8.2	8.9	6.9	7.6	8.1	7.0	7.6	7.2	6.6	6.8
29	---	---	---	8.6	7.4	8.0	8.0	7.2	7.4	6.8	6.5	6.6
30	---	---	---	7.9	7.0	7.3	7.9	7.2	7.5	6.7	6.5	6.6
31	---	---	---	8.9	7.1	8.1	---	---	---	6.6	6.5	6.6
MONTH	8.4	7.2	7.8	9.0	6.8	7.8	8.4	6.7	7.4	8.6	6.5	7.3

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	6.5	6.9	7.6	6.9	7.0	8.6	7.0	7.7	8.7	8.0	8.4
2	7.2	6.6	7.1	8.6	6.8	7.1	8.6	7.0	8.1	8.0	7.2	7.5
3	8.1	6.8	7.1	7.8	6.9	7.2	8.7	7.0	7.9	8.8	7.2	7.6
4	6.8	6.6	6.6	8.3	6.9	7.4	8.6	7.1	7.3	8.7	7.3	8.3
5	7.0	6.6	6.7	8.2	7.0	7.5	7.9	7.1	7.2	8.5	8.1	8.3
6	6.8	6.5	6.6	8.1	7.0	7.6	7.7	7.1	7.1	8.6	8.1	8.3
7	7.1	6.5	6.7	8.1	6.9	7.1	8.2	7.1	7.2	8.4	8.0	8.2
8	7.2	6.7	6.8	8.1	6.9	7.4	7.8	7.1	7.3	8.2	7.4	8.1
9	7.2	6.7	6.8	8.1	6.9	7.2	8.3	7.1	7.4	8.4	7.6	8.1
10	7.7	6.7	6.9	8.1	6.8	7.0	8.0	7.1	7.5	8.2	7.9	8.0
11	7.9	6.8	7.3	7.6	6.8	6.9	8.7	7.3	7.6	---	---	---
12	7.7	6.9	7.3	8.3	6.9	7.2	8.0	7.3	7.5	---	---	---
13	7.6	6.8	7.1	7.9	6.8	7.2	8.1	7.4	7.5	---	---	---
14	7.8	6.7	7.0	7.3	7.0	7.1	8.3	7.4	7.7	---	---	---
15	7.3	6.7	6.8	7.4	7.0	7.1	8.8	7.5	7.8	---	---	---
16	6.8	6.7	6.8	8.2	6.9	7.4	8.7	7.5	7.8	---	---	---
17	6.9	6.8	6.8	8.4	6.9	7.2	8.7	7.8	8.4	---	---	---
18	7.1	6.8	6.8	8.0	7.0	7.1	8.8	7.7	8.5	---	---	---
19	7.7	6.8	7.4	7.2	6.9	7.0	8.9	8.2	8.5	---	---	---
20	7.6	7.3	7.5	6.9	6.8	6.9	8.9	7.5	8.3	7.7	7.1	7.3
21	7.6	7.0	7.3	7.0	6.9	6.9	8.4	7.4	7.6	8.6	7.0	7.3
22	8.0	7.0	7.4	8.3	7.0	7.0	8.7	7.3	7.6	8.3	7.1	7.4
23	8.0	6.9	7.2	8.1	7.0	7.0	7.8	7.2	7.3	8.1	7.1	7.5
24	8.3	6.9	7.6	7.0	6.9	7.0	8.1	7.1	7.3	8.3	7.1	7.3
25	8.2	7.5	7.9	7.3	6.9	7.0	8.6	7.9	8.2	8.2	7.1	7.6
26	8.1	7.6	7.8	7.1	7.0	7.1	8.7	8.2	8.4	8.2	7.4	7.8
27	7.8	7.1	7.5	7.1	7.0	7.1	8.8	8.5	8.7	8.4	7.2	7.8
28	7.6	6.9	7.2	7.1	7.0	7.1	8.8	8.4	8.6	8.2	7.2	7.7
29	7.5	6.9	7.0	8.4	7.0	7.6	8.7	8.6	8.6	8.4	7.8	8.1
30	7.7	7.0	7.3	8.4	7.0	7.8	8.6	8.1	8.4	8.0	7.2	7.7
31	---	---	---	8.3	7.0	7.9	8.7	7.9	8.4	---	---	---
MONTH	8.3	6.5	7.1	8.6	6.8	7.2	8.9	7.0	7.9	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.4	23.7	24.0	20.1	17.7	19.3	13.3	12.6	13.0	6.3	5.4	5.8
2	24.7	23.7	24.2	20.4	18.9	19.5	13.2	12.0	12.4	6.4	5.8	6.0
3	24.8	24.0	24.2	20.0	19.1	19.7	12.2	11.3	11.8	8.4	5.8	6.2
4	25.5	23.8	24.4	---	---	---	12.3	10.8	11.5	9.4	6.8	8.3
5	24.8	23.6	24.3	19.1	17.8	18.4	12.4	9.7	11.5	9.2	6.8	8.2
6	23.6	22.5	22.9	18.0	17.2	17.6	12.6	11.8	12.1	9.5	8.3	9.0
7	22.6	21.6	22.1	---	---	---	13.7	11.9	12.6	10.9	7.2	9.7
8	22.9	21.2	21.8	16.8	16.0	16.5	---	---	---	11.3	8.4	10.5
9	22.5	21.6	22.0	16.0	15.0	15.5	14.3	13.5	13.8	11.3	10.3	10.8
10	23.1	21.5	22.2	---	---	---	---	---	---	11.4	10.4	10.8
11	22.2	21.5	21.9	---	---	---	15.2	13.3	14.2	11.4	10.7	11.0
12	21.8	20.7	21.3	---	---	---	13.3	12.0	12.7	12.2	10.7	11.1
13	22.2	20.9	21.6	15.2	13.6	14.5	12.4	11.3	12.0	12.2	10.4	11.4
14	22.2	21.3	21.5	---	---	---	11.4	10.1	10.7	13.1	11.8	12.3
15	21.5	20.3	20.8	12.9	11.8	12.3	10.1	8.4	9.2	12.3	10.8	11.4
16	20.5	19.2	19.8	12.5	10.8	11.8	9.2	7.0	8.2	10.9	9.0	9.9
17	19.5	18.6	19.2	---	---	---	8.6	7.1	7.6	9.3	7.7	8.6
18	19.3	18.1	18.8	---	---	---	9.5	7.6	8.1	7.8	5.9	6.8
19	20.8	18.8	19.5	---	---	---	9.5	7.8	8.6	7.0	4.3	5.6
20	20.3	20.0	20.2	---	---	---	8.7	5.5	7.4	6.1	4.3	5.2
21	20.0	19.4	19.8	---	---	---	6.7	5.6	6.2	5.6	4.2	5.2
22	19.5	18.5	18.9	---	---	---	7.0	5.8	6.4	5.3	3.5	4.1
23	18.5	17.6	18.0	---	---	---	8.3	6.6	7.4	4.8	3.5	4.1
24	18.3	16.8	17.5	15.0	13.9	14.4	8.7	7.4	7.8	3.5	2.5	3.0
25	17.9	16.0	16.9	15.9	14.3	15.1	7.4	6.3	6.8	3.7	2.4	2.9
26	17.9	16.1	17.0	14.3	12.7	13.5	6.3	4.7	5.6	4.5	2.7	3.6
27	18.0	17.4	17.6	13.5	11.7	12.5	5.2	4.2	4.5	4.3	3.4	3.9
28	18.4	17.0	17.8	13.5	12.2	12.9	5.4	3.0	3.9	3.4	2.7	3.0
29	18.2	17.2	17.7	13.3	12.3	12.9	5.6	3.1	4.2	3.7	2.2	2.8
30	19.0	17.5	18.1	13.2	12.5	13.0	5.2	4.5	4.9	3.3	2.8	3.2
31	20.1	18.2	19.0	---	---	---	6.2	5.0	5.3	3.7	3.0	3.4
MONTH	25.5	16.0	20.5	---	---	---	---	---	---	13.1	2.2	7.0
		FEBRUARY			MARCH			APRIL			MAY	
1	3.6	3.0	3.3	8.5	7.9	8.3	16.3	15.2	15.6	18.2	17.4	17.7
2	4.5	3.0	3.5	8.0	6.9	7.3	16.6	15.5	16.0	18.8	17.5	18.1
3	4.2	3.5	3.9	7.0	6.2	6.6	15.8	14.4	15.2	19.6	17.4	18.0
4	4.5	3.9	4.2	8.2	6.2	7.0	15.4	14.2	14.8	19.1	17.6	18.2
5	4.9	3.9	4.3	8.2	7.0	7.6	16.0	14.5	15.3	18.3	17.6	17.9
6	5.8	4.2	4.8	8.7	7.3	8.0	16.8	15.2	15.9	17.6	15.2	16.5
7	5.5	4.6	4.9	9.5	7.8	8.6	17.4	16.0	16.7	16.4	14.4	15.4
8	6.2	4.7	5.5	9.8	8.2	9.1	17.9	16.9	17.4	17.2	15.8	16.4
9	8.2	5.2	5.8	8.7	7.5	8.2	17.6	16.2	17.0	18.2	16.4	17.0
10	8.3	5.9	7.5	8.8	7.4	8.1	17.1	16.0	16.5	19.0	17.3	18.0
11	6.7	5.3	5.8	9.5	8.0	8.6	17.7	16.0	16.6	22.0	18.1	19.1
12	6.1	4.8	5.5	9.1	7.9	8.6	17.2	16.0	16.6	22.6	18.4	20.3
13	6.2	5.2	5.7	9.8	8.3	9.1	16.0	14.8	15.4	20.8	19.5	20.3
14	7.1	6.0	6.4	9.7	9.0	9.3	14.8	14.1	14.6	21.5	19.7	20.4
15	8.0	7.0	7.2	10.3	8.4	9.4	14.1	12.9	13.6	22.6	20.5	21.3
16	9.5	7.0	8.2	9.8	9.0	9.3	12.9	12.1	12.7	22.1	19.1	21.4
17	9.9	9.0	9.4	9.1	8.0	8.5	13.5	12.2	12.8	22.5	20.8	21.5
18	9.3	8.4	8.8	8.7	7.8	8.3	14.9	12.6	13.5	22.5	20.5	21.5
19	8.8	7.2	8.0	9.0	8.3	8.6	16.0	14.2	14.9	21.8	21.1	21.5
20	8.5	7.8	8.2	12.1	8.3	9.6	18.0	15.1	16.2	22.1	21.3	21.7
21	9.6	8.3	8.8	12.2	8.8	10.4	17.2	14.4	16.1	21.8	20.8	21.3
22	9.7	9.1	9.3	12.1	10.5	11.4	18.6	14.4	17.6	21.7	20.8	21.3
23	10.2	9.2	9.6	12.5	11.3	11.9	18.4	17.3	17.9	22.6	21.0	21.7
24	9.6	9.1	9.3	13.8	12.1	12.7	17.6	15.1	16.2	23.2	21.7	22.2
25	9.1	8.4	8.7	13.3	12.3	12.8	15.8	14.1	15.1	22.0	20.6	21.3
26	9.1	6.9	8.2	13.5	12.5	12.9	15.5	14.8	15.1	21.6	19.9	20.7
27	9.3	8.0	8.4	13.2	12.8	12.9	17.0	15.2	16.0	22.8	20.7	21.6
28	8.6	8.0	8.3	14.3	13.0	13.5	17.2	15.6	16.4	23.0	21.5	22.3
29	---	---	---	14.6	13.1	13.7	16.8	15.7	16.3	23.8	22.1	22.9
30	---	---	---	15.0	13.4	14.1	17.8	16.4	16.9	23.4	22.4	22.8
31	---	---	---	15.6	14.2	14.8	---	---	---	23.1	22.0	22.5
MONTH	10.2	3.0	6.8	15.6	6.2	10.0	18.6	12.1	15.7	23.8	14.4	20.1

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.3	21.4	21.9	29.6	27.1	27.8	29.3	28.3	28.9	30.2	28.2	29.0
2	21.4	20.7	21.0	29.8	27.3	28.3	30.0	28.4	29.2	31.0	29.0	29.7
3	22.4	21.0	21.5	28.8	27.5	28.0	30.9	28.8	29.7	29.5	28.6	29.1
4	22.4	21.7	22.0	29.5	27.5	28.3	30.2	28.9	29.5	28.9	27.7	28.3
5	25.4	20.9	22.9	29.0	27.6	28.1	30.9	29.2	29.8	27.7	27.1	27.4
6	25.7	22.3	24.5	30.3	28.0	29.2	30.8	29.6	30.1	27.1	26.3	26.7
7	27.4	23.5	25.2	30.5	29.0	29.8	30.6	29.3	30.0	26.5	25.9	26.2
8	27.1	22.0	25.9	30.1	28.0	29.4	30.2	28.9	29.3	26.4	25.6	25.9
9	27.1	25.3	26.2	30.0	28.8	29.2	29.1	28.5	28.8	26.8	25.3	26.0
10	27.2	25.0	26.1	30.2	28.5	29.3	29.8	28.3	28.7	26.2	25.1	25.6
11	26.8	25.4	26.1	30.6	29.1	29.9	30.5	28.7	29.7	---	---	---
12	27.2	25.7	26.5	30.3	29.5	29.9	31.4	29.6	30.2	---	---	---
13	28.6	26.7	27.4	29.8	27.9	28.9	32.2	30.0	30.7	---	---	---
14	29.5	27.3	28.1	28.5	27.9	28.1	32.6	30.2	30.9	---	---	---
15	30.2	27.9	29.0	28.9	27.8	28.1	32.8	30.8	31.4	---	---	---
16	30.3	28.7	29.4	29.9	28.1	28.7	31.6	30.2	31.0	---	---	---
17	29.0	27.1	27.9	30.4	28.6	29.4	31.0	30.1	30.5	---	---	---
18	28.3	26.5	27.4	30.6	28.8	29.5	30.4	29.6	30.0	---	---	---
19	27.0	26.3	26.6	30.8	29.1	30.0	31.4	29.5	29.9	---	---	---
20	26.3	25.5	25.9	31.1	29.5	30.3	32.4	29.5	30.3	28.2	26.5	27.2
21	26.2	24.7	25.5	32.2	29.9	30.6	32.7	29.8	31.4	27.7	26.0	27.0
22	26.8	24.9	25.8	32.5	29.9	30.6	32.0	30.3	31.0	27.1	26.3	26.6
23	27.0	25.2	26.2	31.4	29.5	30.4	31.6	30.1	30.7	28.2	26.2	27.0
24	27.6	25.4	26.0	31.2	29.6	30.2	30.1	29.3	29.7	27.7	26.7	27.3
25	26.6	25.7	26.2	31.4	29.1	29.9	29.4	28.2	28.9	27.5	26.3	26.8
26	26.5	26.0	26.2	32.6	29.6	30.5	29.1	27.8	28.2	27.1	26.4	26.8
27	28.0	26.2	26.7	32.4	30.1	31.0	28.3	27.4	27.9	27.2	26.3	26.8
28	27.8	26.8	27.4	33.0	31.0	32.0	29.0	27.1	27.9	26.7	25.6	26.2
29	27.4	26.4	26.8	31.5	30.1	30.5	28.9	27.6	28.3	27.1	25.7	26.3
30	29.1	26.0	27.1	30.6	29.6	29.9	29.0	27.9	28.1	26.5	24.9	25.5
31	---	---	---	29.7	28.9	29.3	29.5	28.6	29.0	---	---	---
MONTH	30.3	20.7	25.8	33.0	27.1	29.5	32.8	27.1	29.7	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.2	23.6	23.9	19.1	17.6	17.9	13.4	12.8	13.1	5.8	5.4	5.6
2	24.7	23.7	24.2	19.1	18.1	18.4	13.4	12.6	13.1	5.8	5.5	5.6
3	24.4	23.8	24.2	19.3	18.0	18.5	13.2	11.5	12.3	6.0	5.6	5.7
4	24.4	23.8	24.1	---	---	---	12.9	12.0	12.8	6.2	5.8	5.9
5	24.3	24.0	24.1	19.1	18.0	18.4	12.8	12.3	12.7	7.4	5.8	6.1
6	24.1	22.6	23.3	18.2	17.4	17.9	12.9	12.6	12.8	8.6	6.0	6.4
7	24.0	22.2	23.2	---	---	---	12.9	12.3	12.8	7.2	6.2	6.5
8	23.9	22.5	23.3	17.4	16.1	16.5	---	---	---	9.7	6.7	7.2
9	23.8	21.9	23.0	16.1	15.4	15.6	13.0	12.5	12.7	8.3	6.8	7.3
10	23.8	22.7	23.6	---	---	---	---	---	---	9.0	7.3	7.8
11	23.6	22.2	23.1	---	---	---	14.1	12.9	13.4	9.7	7.4	8.0
12	23.1	22.5	22.7	---	---	---	13.6	12.4	13.0	9.4	7.9	8.3
13	22.5	21.8	22.2	15.0	14.0	14.5	13.2	11.3	12.2	11.5	8.0	9.1
14	22.4	21.4	21.9	---	---	---	11.4	10.3	10.9	12.9	8.8	11.5
15	22.0	20.3	21.8	13.6	12.2	13.1	10.3	9.1	9.7	12.0	10.8	11.3
16	21.8	20.2	21.1	13.4	12.9	13.2	10.2	9.2	9.9	10.8	9.3	10.0
17	21.5	18.8	20.5	---	---	---	9.9	8.8	9.7	9.9	8.3	9.1
18	21.2	19.6	20.7	---	---	---	10.0	9.6	9.8	8.7	6.9	7.6
19	20.8	19.6	20.1	---	---	---	10.0	8.9	9.9	7.6	6.0	7.2
20	20.7	19.9	20.5	---	---	---	9.0	7.0	7.7	7.6	5.2	6.8
21	20.7	20.5	20.6	---	---	---	7.6	6.3	7.0	7.2	6.3	7.0
22	20.7	20.1	20.5	---	---	---	7.6	6.2	7.1	7.1	4.4	6.5
23	20.5	18.9	19.8	---	---	---	8.4	6.7	7.5	6.1	3.7	4.3
24	20.0	17.9	19.4	14.2	13.1	13.3	8.6	7.4	7.9	4.0	3.0	3.5
25	19.9	18.6	19.4	15.9	13.4	14.6	7.4	6.4	6.8	3.6	2.9	3.3
26	19.6	17.2	18.5	14.7	13.4	13.8	6.4	5.0	5.7	3.8	3.4	3.5
27	18.8	17.9	18.1	14.0	13.5	13.7	5.7	4.5	5.3	4.1	3.4	3.8
28	18.2	17.7	17.9	13.8	12.8	13.3	5.4	5.1	5.3	4.0	2.8	3.4
29	18.3	17.9	18.1	13.3	12.7	12.9	5.5	4.4	5.1	3.5	2.1	2.9
30	18.1	17.7	17.9	13.2	12.9	13.1	5.5	5.1	5.3	3.3	2.6	3.1
31	18.0	17.6	17.8	---	---	---	5.6	5.2	5.4	3.5	3.0	3.3
MONTH	24.7	17.2	21.3	---	---	---	---	---	---	12.9	2.1	6.4
		FEBRUARY			MARCH			APRIL			MAY	
1	3.7	3.3	3.5	8.5	7.9	8.3	15.5	14.0	14.7	18.0	17.5	17.7
2	4.0	3.1	3.5	8.0	7.0	7.4	16.6	15.4	15.9	18.4	17.5	17.8
3	4.1	3.7	3.9	7.1	6.4	6.8	15.9	14.4	15.2	19.0	17.5	17.8
4	4.0	3.8	3.9	7.3	7.0	7.2	15.2	14.2	14.6	19.4	17.6	18.1
5	4.1	3.9	4.0	8.2	7.0	7.1	15.8	14.4	14.7	18.2	17.5	17.9
6	4.8	4.0	4.1	8.0	7.0	7.2	16.1	14.5	15.1	17.6	15.2	16.5
7	4.8	4.2	4.4	8.8	7.2	7.6	17.3	14.5	15.3	15.7	14.2	15.2
8	5.1	4.4	4.7	9.6	7.5	8.5	17.6	15.1	16.4	16.8	15.6	16.1
9	5.0	4.6	4.8	8.6	7.3	8.1	17.6	16.3	17.0	17.4	16.1	16.4
10	7.4	4.9	5.5	8.7	7.6	8.1	16.5	15.7	16.1	18.3	16.6	17.1
11	6.5	5.1	5.4	9.1	8.1	8.5	16.5	15.7	16.0	19.3	17.9	18.4
12	5.8	5.2	5.4	9.1	8.0	8.6	16.8	16.0	16.4	20.5	17.8	18.8
13	6.1	5.4	5.6	9.6	8.8	9.0	16.0	14.8	15.4	20.6	18.2	19.9
14	6.7	5.7	6.0	9.6	9.0	9.3	14.8	14.1	14.6	20.2	18.6	19.7
15	6.8	5.9	6.2	9.4	8.7	9.0	14.1	12.9	13.6	21.9	18.6	19.7
16	9.1	6.1	7.0	9.6	9.1	9.3	13.0	12.1	12.7	20.9	18.6	19.3
17	9.1	6.3	6.7	9.1	8.1	8.6	13.4	12.3	12.7	21.9	19.3	20.6
18	8.9	6.7	8.3	8.8	7.7	8.2	13.3	12.4	12.8	22.5	20.2	21.5
19	8.3	7.6	8.0	8.8	8.6	8.8	13.2	12.2	12.5	21.9	21.0	21.6
20	8.3	7.9	8.1	8.8	8.7	8.8	13.0	12.0	12.2	22.0	21.4	21.7
21	9.4	8.1	8.6	10.1	8.8	8.9	12.3	12.0	12.1	21.6	20.8	21.3
22	9.2	8.2	8.8	11.6	9.0	9.7	14.3	12.2	12.6	21.6	20.9	21.2
23	9.6	8.6	9.2	12.5	9.3	11.3	18.2	12.4	15.5	22.5	21.0	21.4
24	9.8	9.1	9.3	12.4	9.8	10.5	17.6	13.9	15.8	22.5	20.8	21.4
25	9.1	8.6	8.8	13.2	10.6	11.6	15.8	14.5	15.1	21.9	20.7	21.2
26	8.7	8.0	8.5	12.8	10.7	11.8	15.6	14.8	15.2	21.0	20.1	20.6
27	8.6	8.1	8.4	12.6	10.8	11.6	16.7	14.8	15.5	20.9	20.4	20.7
28	8.6	8.0	8.4	14.1	10.9	12.6	16.4	15.3	15.7	21.6	20.4	20.6
29	---	---	---	14.4	13.1	13.6	16.4	15.4	15.6	21.0	20.3	20.4
30	---	---	---	14.1	12.8	13.4	17.9	15.9	16.8	20.4	20.3	20.3
31	---	---	---	15.6	13.5	14.7	---	---	---	21.4	20.3	20.6
MONTH	9.8	3.1	6.4	15.6	6.4	9.5	18.2	12.0	14.8	22.5	14.2	19.4

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.2	20.7	21.5	27.1	26.0	26.3	29.1	28.3	28.8	28.9	28.5	28.6
2	21.2	20.7	21.0	28.8	25.9	26.4	29.1	28.4	28.6	28.6	28.3	28.5
3	22.2	20.7	21.1	28.1	26.3	27.0	29.5	28.5	28.9	29.0	28.3	28.5
4	21.1	20.7	20.8	28.1	26.8	27.4	29.6	28.4	28.7	28.8	27.7	28.3
5	22.8	20.7	21.1	28.8	27.0	27.7	29.4	28.6	28.8	27.7	27.1	27.4
6	22.9	20.9	21.3	29.3	27.4	28.3	29.3	28.5	28.8	27.1	26.4	26.7
7	23.5	21.0	21.6	29.5	27.7	28.3	30.1	28.5	28.9	26.5	25.9	26.2
8	24.3	21.2	21.9	29.4	27.9	28.8	30.0	28.9	29.2	26.3	25.5	25.9
9	24.8	21.8	22.7	29.5	28.5	28.9	29.2	28.8	29.0	26.9	25.3	26.0
10	26.3	22.5	24.1	29.4	28.5	28.7	29.0	28.4	28.7	26.2	25.2	25.6
11	26.5	24.7	25.8	29.5	28.4	28.6	29.4	28.5	28.9	---	---	---
12	27.0	25.9	26.4	29.8	28.4	28.8	29.8	28.8	29.1	---	---	---
13	27.3	26.1	26.4	29.2	28.2	28.7	30.0	29.1	29.3	---	---	---
14	27.5	25.7	26.5	28.6	28.1	28.4	30.6	29.3	29.8	---	---	---
15	27.6	25.8	26.0	28.4	27.9	28.2	31.6	29.5	30.1	---	---	---
16	26.1	25.7	25.8	28.6	27.8	28.1	31.1	29.5	30.1	---	---	---
17	26.7	25.7	26.1	29.0	27.8	28.2	30.8	30.1	30.4	---	---	---
18	27.1	26.1	26.3	29.7	28.1	28.3	30.4	29.6	30.0	---	---	---
19	26.8	26.2	26.5	28.9	28.1	28.3	30.1	29.4	29.6	---	---	---
20	26.3	25.5	25.9	28.8	28.2	28.3	30.1	29.4	29.8	26.8	25.5	26.0
21	25.5	24.5	24.9	28.4	28.2	28.3	30.1	29.6	29.7	27.6	25.7	26.1
22	26.2	24.6	25.0	31.4	28.3	28.6	30.8	29.5	29.8	26.9	25.9	26.3
23	26.1	24.6	25.1	30.6	28.5	28.7	30.2	29.5	29.7	26.6	26.1	26.2
24	26.3	25.1	25.6	29.1	28.6	28.7	29.9	29.5	29.7	27.3	26.1	26.4
25	26.6	25.8	26.2	29.2	28.6	28.8	29.5	28.2	28.9	27.0	26.3	26.6
26	26.5	26.0	26.2	29.4	28.6	28.8	28.8	27.8	28.2	27.0	26.5	26.7
27	26.9	26.1	26.3	29.5	28.6	28.8	28.3	27.5	27.9	27.0	26.3	26.6
28	27.0	26.2	26.5	29.5	28.6	28.9	28.7	27.1	27.8	26.5	25.8	26.2
29	26.7	26.2	26.4	31.0	28.7	29.8	28.9	27.6	28.3	26.9	25.7	26.2
30	26.6	26.0	26.3	30.3	29.0	29.7	28.6	27.9	28.2	26.5	24.9	25.6
31	---	---	---	29.6	28.9	29.3	29.4	28.3	28.8	---	---	---
MONTH	27.6	20.7	24.6	31.4	25.9	28.4	31.6	27.1	29.1	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	6.5	7.2	9.4	4.7	7.9	12.1	10.1	11.2	18.9	13.6	15.3
2	9.1	6.6	7.8	9.4	7.2	8.1	12.0	8.8	10.4	18.4	14.6	16.1
3	9.0	6.5	7.7	8.8	5.2	7.8	12.3	10.3	11.0	18.9	14.6	16.1
4	10.6	7.2	8.6	---	---	---	14.3	9.9	11.4	17.0	13.7	15.4
5	9.2	8.0	8.6	9.1	6.4	7.9	15.2	10.2	11.8	14.6	12.8	13.7
6	9.8	7.6	8.3	9.5	7.3	8.6	12.6	8.1	10.2	14.3	12.3	13.1
7	10.8	7.9	8.8	---	---	---	13.4	8.3	10.6	13.4	11.5	12.5
8	10.5	8.2	9.1	9.9	9.6	9.7	---	---	---	13.9	11.5	12.7
9	10.0	8.6	9.1	10.4	9.8	10.1	12.4	8.8	10.5	13.6	11.9	12.7
10	10.2	8.7	9.4	---	---	---	---	---	---	15.3	12.3	13.3
11	10.2	8.8	9.3	---	---	---	11.6	10.3	10.9	15.3	13.1	14.0
12	10.5	7.5	9.4	---	---	---	12.1	10.0	11.0	15.6	13.4	14.4
13	9.5	2.1	7.3	11.2	10.3	10.6	12.0	10.2	10.9	14.7	10.3	12.9
14	9.7	4.5	7.3	---	---	---	12.5	10.8	11.2	11.5	9.3	10.3
15	9.2	6.3	8.2	13.2	11.1	12.0	12.4	10.8	11.7	11.1	9.3	10
16	11.1	6.9	8.3	13.6	12.4	12.8	13.8	11.5	12.4	11.3	9.5	10.3
17	12.1	8.3	9.9	---	---	---	14.6	12.0	13.2	12.2	10.1	11.2
18	11.0	8.0	10.1	---	---	---	15.3	9.0	12.9	13.2	10.6	11.7
19	11.9	8.6	10.0	---	---	---	15.8	8.6	12.5	14.1	10.8	12.5
20	10.7	8.8	9.5	---	---	---	12.4	10.5	11.1	13.1	11.8	12.3
21	9.3	8.5	8.9	---	---	---	15.2	11.2	11.9	13.0	11.7	12.4
22	9.3	8.1	8.8	---	---	---	13.2	11.8	12.3	13.7	11.3	12.4
23	11.0	8.3	9.0	---	---	---	12.8	11.8	12.2	12.8	10.8	11.4
24	9.8	7.0	8.6	13.4	8.3	11.4	13.0	11.3	11.9	12.3	11.1	11.5
25	11.0	5.7	8.5	11.6	9.0	10.7	12.9	11.6	12.1	12.4	11.2	11.8
26	9.3	5.2	7.5	12.2	10.4	11.0	14.0	11.8	12.4	12.3	11.5	12.0
27	11.2	3.9	7.3	12.3	10.4	11.2	13.6	12.0	12.6	12.2	11.7	12.0
28	10.7	2.2	5.2	12.2	10.6	11.6	15.6	11.8	13.1	12.4	11.8	12.1
29	10.0	4.5	7.6	11.9	10.5	11.4	14.1	12.6	13.4	12.6	12.1	12.4
30	10.4	7.3	9.2	12.6	10.0	11.7	14.2	13.0	13.4	12.6	11.5	12.3
31	10.0	6.5	8.5	---	---	---	16.1	13.2	13.8	12.4	11.8	12.1
MONTH	12.1	2.1	8.5	---	---	---	---	---	---	18.9	9.3	12.7
		FEBRUARY			MARCH			APRIL			MAY	
1	12.4	11.9	12.2	11.2	10.5	10.8	12.1	10.0	11.0	9.0	7.6	8.3
2	12.5	12.0	12.3	13.2	10.0	10.9	10.6	9.2	9.9	9.3	6.7	8.5
3	13.4	11.9	12.4	12.7	9.8	11.5	10.4	9.2	9.7	10.1	6.8	8.3
4	12.4	11.4	12.2	14.1	11.6	12.5	10.3	9.6	10	---	---	---
5	12.4	11.8	12.0	13.3	11.5	12.6	10.3	8.5	9.8	---	---	---
6	12.3	10.9	12.0	13.5	11.7	12.7	9.8	8.7	9.3	---	---	---
7	12.6	11.3	12.0	12.9	11.3	12.4	9.2	8.5	9.0	---	---	---
8	12.8	9.8	12.0	12.1	7.4	10.2	9.2	7.9	8.6	---	---	---
9	13.2	11.0	12.0	11.3	8.6	10.2	8.9	8.2	8.5	---	---	---
10	12.8	10.6	11.7	11.9	10.3	11.2	10.3	8.5	9.3	---	---	---
11	11.7	10.0	11.1	12.6	10.4	11.6	10.9	9.0	10.0	---	---	---
12	12.1	10.7	11.6	11.1	9.9	10.6	10.6	9.3	10	11.3	3.9	9.4
13	12.7	11.2	12.0	11.5	10.2	10.8	9.7	9.2	9.4	8.3	5.6	7.7
14	12.7	11.3	12.0	11.1	10.6	10.8	9.8	8.9	9.3	10.2	7.2	8.3
15	14.9	11.8	12.6	12.9	10.7	11.7	10.3	9.5	9.9	10.4	7.9	8.8
16	14.9	12.1	13.2	12.8	10.3	12.0	11.0	10.0	10.5	10.1	1.1	8.1
17	13.2	11.9	12.8	10.9	9.9	10.6	11.7	10.5	11.0	10.0	6.4	8.6
18	12.8	11.5	12.1	12.6	10.5	11.4	12.0	9.9	11.4	11.0	7.8	9.0
19	13.3	10.8	12.1	13.8	12.4	13.0	11.7	10.8	11.3	9.4	8.3	9.0
20	12.6	10.7	12.1	15.5	12.3	14.1	12.2	9.9	11.3	9.4	7.7	8.4
21	12.2	11.4	11.9	14.8	9.3	13.0	10.8	8.1	9.6	10.3	7.7	8.6
22	12.2	11.3	11.7	13.8	11.7	13.0	10.6	8.2	9.9	10.2	8.5	9.5
23	12.1	10.8	11.7	12.8	11.5	12.2	9.9	9.0	9.5	11.0	8.5	9.8
24	11.5	10.6	11.1	13.2	11.3	12.0	9.7	8.1	8.8	11.1	9.2	10.0
25	11.3	10.3	10.8	13.5	11.7	12.5	9.8	8.2	8.9	10.0	8.3	9.0
26	12.3	10.2	11.6	13.3	11.9	12.6	9.8	8.9	9.4	9.6	7.7	8.7
27	12.6	11.0	11.9	13.8	12.3	12.7	11.1	8.8	10.0	10.8	8.0	9.7
28	12.1	10.5	11.0	12.9	10.4	12.0	11.2	8.7	9.7	10.4	8.2	9.5
29	---	---	---	12.0	10.5	11.2	10.2	8.2	9.4	10.4	7.1	8.9
30	---	---	---	12.4	8.9	11.2	9.6	7.6	8.6	8.9	6.0	8.0
31	---	---	---	12.3	10.6	11.4	---	---	---	8.8	5.0	7.4
MONTH	14.9	9.8	11.9	15.5	7.4	11.8	12.2	7.6	9.8	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	5.5	7.0	11.8	6.8	8.3	10.3	5.1	7.5	---	---	---
2	7.0	4.1	6.0	9.6	3.7	7.8	12.2	6.7	9.4	13.2	6.0	9.8
3	10.1	5.6	6.9	8.8	5.9	7.2	13.5	9.2	10.4	9.6	3.0	7.6
4	8.8	5.5	7.3	11.6	5.2	7.9	12.6	3.2	9.8	8.8	5.5	6.8
5	10.9	1.2	8.2	8.3	6.1	7.1	15.8	3.4	10.7	7.2	4.5	5.8
6	10.5	4.6	8.4	9.5	5.0	7.5	12.6	4.3	9.9	7.8	5.5	6.5
7	10.9	5.7	8.8	9.3	4.2	7.3	11.2	1.5	7.0	8.3	5.9	7.0
8	10.7	1.2	8.5	8.3	4.0	7.0	7.7	0.0	4.9	9.0	6.1	7.3
9	8.3	5.7	7.2	9.5	4.0	7.0	7.0	2.2	5.3	11.9	5.8	8.5
10	8.3	4.0	6.2	11.3	2.2	7.6	14.2	2.7	6.4	9.2	7.2	8.3
11	6.9	4.7	5.8	10.8	5.8	9.0	14.9	1.0	10.5	---	---	---
12	6.8	4.3	5.7	9.7	6.6	8.1	13.6	1.1	8.7	---	---	---
13	7.5	4.7	6.2	8.2	3.7	5.6	15.0	2.5	8.0	---	---	---
14	8.1	6.5	7.2	7.8	2.7	4.6	16.4	4.2	8.0	---	---	---
15	9.0	5.8	7.5	8.3	5.5	6.5	13.6	6.7	9.3	---	---	---
16	8.5	6.1	7.7	12.1	6.4	8.5	8.9	2.5	6.2	---	---	---
17	7.0	2.5	5.8	10.3	7.0	8.6	8.2	4.1	5.8	---	---	---
18	8.6	0.6	6.5	8.4	6.7	7.4	8.2	4.3	6.0	---	---	---
19	6.9	2.8	5.9	9.3	5.8	7.6	15.4	3.8	6.9	---	---	---
20	6.9	5.5	6.2	9.1	6.0	7.7	13.3	3.5	8.0	11.7	3.7	7.6
21	8.2	5.7	6.9	10.6	6.7	8.1	14.8	3.9	10.5	9.1	0.9	6.5
22	8.9	5.8	7.6	10.7	4.7	7.6	11.3	3.8	8.6	7.5	2.5	6.1
23	9.3	3.5	7.5	10.3	3.9	7.1	9.7	2.9	6.9	10.9	4.7	7.3
24	10.4	5.2	7.1	9.6	5.7	7.9	8.1	0.7	6.2	9.0	2.7	7.5
25	8.0	6.2	7.2	11.3	4.8	8.1	8.2	4.0	5.9	---	---	---
26	8.1	6.4	7.1	13.7	6.3	9.1	---	---	---	---	---	---
27	9.9	6.3	7.5	11.2	3.5	8.1	---	---	---	---	---	---
28	9.2	5.4	7.4	10.6	6.5	9.1	---	---	---	---	---	---
29	7.3	4.0	6.3	7.8	4.3	6.1	---	---	---	---	---	---
30	11.6	4.6	7.6	8.3	5.0	6.2	---	---	---	7.7	5.1	6.1
31	---	---	---	10.1	4.8	6.3	---	---	---	---	---	---
MONTH	11.6	0.6	7.0	13.7	2.2	7.5	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.6	5.3	6.7	7.2	2.8	4.1	12.9	9.3	11.1	10.8	9.3	10.1
2	8.9	6.4	7.6	7.0	2.0	3.6	12.2	8.6	9.8	10.4	9.5	10.0
3	7.7	1.9	5.9	5.7	1.3	2.6	11.0	8.3	9.7	10.6	9.2	9.8
4	7.4	0.4	4.4	---	---	---	10.6	7.4	7.8	10.3	8.8	9.6
5	8.1	0.0	2.4	7.4	4.6	6.5	8.9	7.1	7.6	11.4	9.0	9.7
6	8.7	0.1	5.4	7.4	4.9	6.3	7.5	6.4	7.0	12.0	9.4	10
7	8.0	0.0	2.1	---	---	---	9.9	6.2	6.8	10.8	9.2	9.8
8	4.6	0.0	0.8	8.4	6.8	8.2	---	---	---	11.8	8.6	9.4
9	8.8	0.0	2.0	8.7	8.2	8.4	7.8	6.1	7.0	9.3	7.1	8.3
10	1.3	0.0	0.1	---	---	---	---	---	---	9.5	6.7	7.3
11	5.3	0.0	0.2	---	---	---	10.6	4.8	6.5	10.8	5.9	7.3
12	0.5	0.0	0.1	---	---	---	11.4	6.5	9.6	8.2	5.6	6.6
13	5.7	0.1	2.2	9.2	6.8	8.6	11.3	6.5	10.1	11.2	5.2	7.4
14	6.8	0.9	3.2	---	---	---	11.2	8.6	10.5	10.6	5.1	8.7
15	7.5	0.3	1.5	9.8	9.0	9.5	11.8	10.4	10.9	10.8	8.7	9.4
16	7.5	0.0	3.1	9.7	8.4	8.9	10.8	9.3	9.9	10.4	9.1	9.7
17	8.6	0.0	3.1	---	---	---	11.3	8.2	9.5	11.2	8.9	9.7
18	6.7	0.0	1.4	---	---	---	9.5	8.4	8.9	11.1	9.3	10.1
19	8.7	0.1	3.2	---	---	---	11.9	7.7	8.4	11.8	8.8	9.7
20	8.3	0.0	1.2	---	---	---	11.5	8.9	10.7	11.8	8.5	9.4
21	0.1	0.0	0.0	---	---	---	12.8	9.8	10.9	9.5	8.0	8.6
22	1.7	0.0	0.1	---	---	---	12.7	9.0	10.8	12.6	7.5	8.5
23	5.7	0.0	1.3	---	---	---	12.3	8.1	10.5	12.7	9.2	11.0
24	7.1	0.0	1.5	8.4	6.7	7.3	11.7	10.9	11.3	11.1	10.3	10.7
25	4.1	0.0	0.8	11.3	6.5	9.3	11.8	11.0	11.4	12.0	10.2	10.9
26	6.6	0.0	2.6	11.2	9.3	10.5	12.6	11.2	11.8	12.4	10.1	10.9
27	4.6	1.2	3.5	10.8	8.4	9.3	12.2	10.9	11.4	13.2	10.2	11.4
28	5.2	2.4	3.8	12.6	8.1	10.5	11.7	11.0	11.3	12.7	10.1	11.7
29	6.6	2.6	3.6	12.5	10.6	11.5	12.5	10.8	11.6	12.7	10.6	11.9
30	6.2	2.3	2.9	13.7	9.0	10.5	11.2	10.4	10.7	12.8	10.8	11.7
31	4.8	1.5	2.8	---	---	---	10.9	9.4	10.2	12.6	10.8	11.7
MONTH	8.9	0.0	2.6	---	---	---	---	---	---	13.2	5.1	9.7
		FEBRUARY			MARCH			APRIL			MAY	
1	12.5	10.6	11.8	11.0	10.4	10.7	10.8	7.6	9.1	8.8	7.5	8.1
2	12.5	8.7	11.8	11.1	10.5	10.8	10.2	8.9	9.5	8.6	5.7	6.9
3	12.2	8.9	10.7	11.7	10.7	11.2	10.3	8.9	9.4	9.5	6.3	7.9
4	11.9	10.2	11.3	11.2	9.6	10.4	10.0	7.2	9.2	---	---	---
5	11.9	11.2	11.5	12.5	9.5	10.6	9.6	6.5	7.6	---	---	---
6	11.8	11.0	11.4	11.7	8.6	9.4	9.2	5.0	7.0	---	---	---
7	11.9	10.1	11.0	11.9	8.1	9.4	---	---	---	---	---	---
8	11.4	10.5	10.8	11.0	8.5	9.3	---	---	---	---	---	---
9	10.8	10.1	10.4	10.7	9.1	9.8	---	---	---	---	---	---
10	11.2	10.2	10.5	11.2	8.2	10.0	---	---	---	---	---	---
11	11.1	10.6	10.8	11.5	7.5	9.9	---	---	---	---	---	---
12	11.8	10.2	11.0	10.6	8.8	10.1	---	---	---	9.3	2.3	5.6
13	11.9	9.9	10.4	10.5	9.3	9.9	---	---	---	8.2	4.2	6.6
14	12.1	9.7	11.0	10.7	10.1	10.4	---	---	---	8.2	1.1	5.7
15	12.2	8.6	9.9	11.0	7.5	9.9	---	---	---	9.1	0.3	3.4
16	12.7	7.7	10.8	11.2	7.3	9.1	---	---	---	5.8	0.2	1.4
17	11.9	8.2	8.8	10.5	9.4	10.0	---	---	---	9.0	0.3	5.3
18	12.1	8.0	10.9	11.5	9.1	10.6	---	---	---	10.6	2.2	8.1
19	12.1	9.5	10.7	11.7	9.0	10	---	---	---	9.1	4.6	7.5
20	11.7	10.1	10.7	9.7	8.6	9.2	---	---	---	8.4	4.1	6.8
21	11.5	9.2	10.6	11.2	8.6	9.1	7.0	6.2	6.6	9.9	7.6	8.4
22	11.4	8.3	10.2	11.9	7.2	9.0	6.7	5.2	6.1	9.3	3.8	7.8
23	11.4	8.8	10.5	11.8	7.0	10.1	9.5	4.2	7.1	10.4	2.6	6.8
24	11.0	10.3	10.7	11.2	6.5	7.4	9.2	4.4	7.6	10.0	1.3	4.8
25	10.7	9.1	10.2	12.4	5.8	8.4	9.5	7.7	8.6	8.9	1.8	7.2
26	10.9	9.5	10.4	11.6	4.5	8.0	9.6	7.0	8.5	9.4	5.9	7.5
27	11.5	9.2	10.2	10.3	3.9	6.6	10.4	3.9	8.1	7.3	4.3	5.7
28	11.2	10.2	10.8	11.9	4.2	8.5	9.6	5.5	8.1	7.7	2.4	3.9
29	---	---	---	11.4	9.1	10.3	9.5	6.2	7.5	3.6	0.7	2.4
30	---	---	---	10.7	6.2	8.3	9.1	6.1	7.9	2.6	0.6	1.6
31	---	---	---	12.1	7.4	10.5	---	---	---	2.6	0.0	0.9
MONTH	12.7	7.7	10.7	12.5	3.9	9.6	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	0.0	4.4	6.3	0.3	2.2	9.3	0.0	4.0	6.3	2.3	4.6
2	7.4	1.1	6.6	8.4	0.1	1.4	9.4	0.0	6.0	2.6	0.1	0.9
3	10.6	3.3	6.7	6.4	0.0	2.3	10.4	0.0	5.4	7.3	0.1	1.6
4	3.5	1.0	2.2	8.0	0.6	4.4	9.4	0.0	1.2	7.7	0.2	5.3
5	6.1	0.5	2.1	7.2	1.1	4.6	4.4	0.0	0.5	7.1	4.5	5.8
6	4.9	0.2	1.6	6.9	0.1	5.0	3.4	0.0	0.2	7.3	5.2	6.1
7	4.9	0.1	1.2	7.0	0.1	2.0	4.4	0.0	0.3	7.6	5.3	6.3
8	4.9	0.0	1.0	6.9	0.0	4.1	3.9	0.0	0.8	7.9	3.7	6.4
9	4.8	0.1	1.3	6.6	0.6	2.9	6.0	0.0	1.9	10.0	4.9	7.3
10	6.2	0.0	2.0	7.0	0.0	1.4	4.8	0.0	1.4	7.8	6.0	7.0
11	6.8	1.9	4.7	5.0	0.0	0.4	6.9	0.1	1.2	---	---	---
12	6.8	2.3	4.8	7.6	0.0	2.0	2.8	0.1	0.7	---	---	---
13	6.5	1.6	3.7	6.2	0.0	2.8	3.1	0.1	0.4	---	---	---
14	6.8	0.0	2.6	4.2	1.2	2.5	3.6	0.1	0.8	---	---	---
15	5.2	0.0	0.5	4.6	0.5	2.3	7.0	0.1	1.3	---	---	---
16	0.3	0.0	0.1	7.5	0.1	3.3	5.0	0.1	1.0	---	---	---
17	1.8	0.0	0.2	7.5	0.1	1.5	7.0	0.8	4.6	---	---	---
18	4.4	0.0	0.4	6.2	0.0	1.0	7.6	0.5	4.9	---	---	---
19	6.8	0.0	5.4	2.6	0.0	0.3	9.6	2.7	5.2	---	---	---
20	6.9	5.7	6.3	0.5	0.0	0.0	8.7	0.0	4.3	4.7	0.2	2.1
21	6.9	2.1	5.5	0.2	0.0	0.0	3.9	0.0	0.7	8.0	0.0	1.6
22	7.7	2.7	5.3	7.2	0.0	0.2	5.9	0.0	0.9	6.5	0.0	2.1
23	7.3	1.1	3.6	6.1	0.0	0.3	1.8	0.0	0.1	5.5	0.0	2.5
24	8.3	2.0	5.7	0.2	0.0	0.0	4.4	0.0	0.5	6.5	0.0	1.2
25	7.7	5.9	6.9	3.2	0.0	0.2	7.8	3.9	5.7	6.1	0.0	2.9
26	7.9	6.3	6.9	0.3	0.0	0.0	10.3	5.5	7.0	6.0	1.7	4.4
27	7.1	3.3	5.5	1.0	0.0	0.0	8.0	6.4	7.4	8.2	0.0	4.3
28	6.2	1.4	4.0	0.3	0.0	0.0	8.4	5.8	7.0	7.0	0.0	3.6
29	6.2	1.1	2.3	6.2	0.0	3.0	7.6	6.5	7.1	9.1	4.8	6.8
30	6.9	3.0	4.9	7.2	0.0	4.4	7.0	3.1	5.3	6.3	0.6	5.0
31	---	---	---	7.2	0.0	4.8	6.9	3.0	5.1	---	---	---
MONTH	10.6	0.0	3.6	8.4	0.0	1.9	10.4	0.0	3.0	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	98	77	85	103	49	86	116	96	107	153	108	122
2	110	79	93	104	78	89	114	84	98	148	117	130
3	109	78	93	97	56	86	113	96	102	153	119	130
4	129	86	104	---	---	---	134	92	104	143	115	131
5	111	95	103	97	69	84	142	95	108	124	105	117
6	115	89	98	100	76	90	118	76	95	125	106	114
7	125	91	101	---	---	---	128	78	100	121	100	110
8	123	93	104	102	98	100	---	---	---	127	103	114
9	116	98	105	105	98	102	120	85	102	124	107	114
10	120	99	109	---	---	---	---	---	---	140	110	120
11	117	100	107	---	---	---	116	101	107	139	118	127
12	120	85	106	---	---	---	113	94	104	145	121	131
13	107	24	83	112	101	104	112	95	102	136	92	119
14	110	52	82	---	---	---	113	97	101	107	87	96
15	103	72	92	123	104	112	107	96	102	101	85	91
16	123	75	91	127	112	119	117	100	105	99	85	91
17	131	89	108	---	---	---	122	103	110	104	87	96
18	119	87	108	---	---	---	129	78	109	108	88	96
19	130	94	110	---	---	---	135	75	107	111	89	99
20	118	97	105	---	---	---	99	89	93	106	91	97
21	102	93	98	---	---	---	125	90	96	103	93	98
22	100	87	95	---	---	---	108	95	100	106	89	95
23	116	88	95	---	---	---	106	98	102	99	83	87
24	104	74	91	131	81	112	110	97	100	92	83	86
25	113	60	88	116	88	106	106	96	99	91	84	88
26	95	55	78	117	100	106	111	95	99	95	87	91
27	118	41	77	115	99	106	105	95	98	93	89	92
28	111	23	55	117	102	110	119	93	100	92	89	90
29	105	48	80	113	100	108	108	98	103	95	88	91
30	110	77	98	119	95	111	111	101	105	94	86	92
31	110	70	92	---	---	---	129	104	109	93	88	91
MONTH	131	23	95	---	---	---	---	---	---	153	83	105
		FEBRUARY			MARCH			APRIL			MAY	
1	93	90	92	96	89	92	121	100	111	96	80	88
2	96	89	93	111	83	90	108	93	101	100	71	90
3	102	90	94	105	79	94	104	92	97	110	71	88
4	96	87	94	118	94	103	103	94	99	---	---	---
5	97	90	92	111	95	106	105	85	98	---	---	---
6	98	87	94	116	97	108	99	88	94	---	---	---
7	99	88	94	111	95	106	96	87	92	---	---	---
8	103	77	96	106	64	89	97	82	90	---	---	---
9	107	87	96	97	72	87	92	86	88	---	---	---
10	106	87	98	103	87	95	107	87	96	---	---	---
11	93	80	89	109	89	100	114	93	103	---	---	---
12	97	85	92	96	84	90	108	95	102	126	42	104
13	102	89	96	101	88	94	97	92	94	93	61	85
14	103	91	98	98	92	94	96	88	92	116	79	93
15	125	98	105	115	92	103	99	92	95	121	88	99
16	125	100	112	113	89	105	104	94	99	116	12	93
17	117	103	111	94	85	90	113	98	105	116	72	97
18	111	99	105	108	89	97	119	95	109	127	87	102
19	114	92	103	120	106	111	118	106	112	107	94	102
20	107	91	103	139	106	124	129	99	116	108	88	95
21	106	99	102	134	81	117	112	82	98	117	87	98
22	107	98	102	126	105	119	114	80	104	116	96	108
23	107	94	102	118	108	113	105	95	100	127	96	112
24	101	92	97	128	105	114	99	82	90	130	106	116
25	97	89	93	129	110	118	99	80	89	113	93	102
26	106	87	98	128	112	119	98	88	93	109	86	97
27	107	94	102	132	116	121	115	89	102	125	90	110
28	102	89	94	123	100	115	113	88	100	120	93	110
29	---	---	---	118	101	108	105	83	96	123	82	104
30	---	---	---	122	86	110	99	78	89	105	69	93
31	---	---	---	123	104	113	---	---	---	102	57	86
MONTH	125	77	98	139	64	105	129	78	98	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	86	63	80	151	86	107	135	66	98	---	---	---
2	79	46	67	127	47	100	162	87	124	177	79	130
3	117	63	79	114	75	93	179	120	138	126	39	100
4	101	63	83	151	66	102	166	42	128	114	72	87
5	131	13	96	107	78	91	209	45	142	91	57	74
6	129	53	101	127	64	98	168	57	132	98	69	82
7	138	67	108	125	55	96	150	20	93	103	73	87
8	134	14	105	109	51	92	101	0	64	112	75	90
9	105	70	89	126	52	92	91	29	69	149	71	105
10	105	49	76	150	29	99	187	35	83	113	88	102
11	86	58	72	145	76	119	199	13	139	---	---	---
12	86	53	71	129	87	108	180	14	116	---	---	---
13	96	59	78	108	48	73	203	33	108	---	---	---
14	106	82	93	101	35	59	222	57	108	---	---	---
15	119	74	97	108	70	83	187	90	127	---	---	---
16	113	79	101	160	82	111	121	33	84	---	---	---
17	90	32	74	137	92	113	111	55	78	---	---	---
18	110	7	83	112	87	98	109	57	80	---	---	---
19	87	35	74	125	76	101	209	50	92	---	---	---
20	85	68	77	123	79	102	178	46	107	150	46	96
21	102	69	84	144	90	109	202	52	143	116	11	82
22	111	71	93	147	63	102	155	51	117	95	31	76
23	117	43	93	138	52	95	132	39	93	140	58	92
24	132	64	88	130	76	105	107	9	81	115	34	95
25	100	76	89	152	63	107	107	52	77	---	---	---
26	101	79	89	183	83	122	---	---	---	---	---	---
27	127	78	94	152	47	110	---	---	---	---	---	---
28	118	68	94	147	88	125	---	---	---	---	---	---
29	92	50	79	106	57	82	---	---	---	---	---	---
30	147	57	96	110	66	83	---	---	---	94	63	75
31	---	---	---	133	63	83	---	---	---	---	---	---
MONTH	147	7	87	183	29	99	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	91	63	80	78	30	43	123	89	106	86	74	80
2	107	76	91	76	21	39	116	82	93	83	76	80
3	92	23	70	62	14	28	101	79	90	84	74	78
4	88	5	53	---	---	---	99	70	74	82	71	77
5	97	0	29	79	49	69	83	67	72	95	73	78
6	102	1	64	79	52	66	71	61	66	102	76	81
7	93	0	24	---	---	---	93	59	64	89	75	80
8	53	0	9	87	71	84	---	---	---	103	73	78
9	101	0	23	87	82	84	74	58	66	77	59	69
10	15	0	0	---	---	---	---	---	---	82	56	61
11	61	0	2	---	---	---	103	46	63	95	51	62
12	6	0	1	---	---	---	107	62	92	71	47	56
13	65	1	25	90	67	85	106	62	94	102	45	65
14	77	10	37	---	---	---	101	79	96	100	45	80
15	83	3	17	93	87	90	103	91	96	98	80	86
16	83	0	34	92	80	85	94	83	87	93	80	86
17	94	0	34	---	---	---	97	72	83	95	78	84
18	73	0	16	---	---	---	84	74	79	91	79	84
19	96	1	35	---	---	---	103	68	75	95	74	81
20	92	0	14	---	---	---	95	77	90	93	71	77
21	1	0	0	---	---	---	105	82	90	78	66	71
22	19	0	1	---	---	---	105	75	90	97	62	69
23	61	0	14	---	---	---	104	68	88	98	74	85
24	75	0	16	82	64	70	99	92	95	83	78	81
25	44	0	9	115	63	92	96	91	94	90	77	82
26	69	0	28	107	91	101	100	90	95	94	77	82
27	49	13	37	104	81	90	95	87	90	101	78	86
28	55	26	40	120	78	100	92	87	89	94	77	88
29	70	28	38	118	101	109	97	86	91	93	80	88
30	65	24	31	131	86	100	89	83	85	95	81	87
31	51	16	30	---	---	---	86	75	81	95	81	88
MONTH	107	0	29	---	---	---	---	---	---	103	45	78
		FEBRUARY			MARCH			APRIL			MAY	
1	94	80	89	94	89	91	109	74	90	93	79	85
2	94	66	89	93	87	90	104	90	97	91	60	73
3	93	68	82	97	88	92	102	89	93	101	66	83
4	91	78	86	93	80	86	99	71	91	---	---	---
5	91	86	88	106	79	87	97	64	75	---	---	---
6	92	84	87	99	72	78	93	49	70	---	---	---
7	93	78	85	102	68	79	---	---	---	---	---	---
8	89	81	84	97	71	80	---	---	---	---	---	---
9	85	79	81	91	77	83	---	---	---	---	---	---
10	92	80	84	96	70	85	---	---	---	---	---	---
11	88	84	86	98	64	85	---	---	---	---	---	---
12	94	81	87	92	75	87	---	---	---	102	24	60
13	96	79	83	92	80	86	---	---	---	91	45	73
14	99	77	88	94	88	90	---	---	---	91	12	62
15	100	69	80	96	65	86	---	---	---	104	3	37
16	109	62	89	98	64	79	---	---	---	65	2	15
17	103	67	72	89	81	86	---	---	---	103	3	59
18	103	66	93	99	77	90	---	---	---	123	24	93
19	102	80	91	101	78	86	---	---	---	103	52	85
20	99	86	91	84	74	79	---	---	---	96	47	77
21	101	78	91	100	74	79	65	58	61	113	85	95
22	99	71	88	110	63	80	65	49	57	106	43	88
23	100	76	91	111	61	93	101	41	72	120	29	77
24	96	90	94	105	58	67	94	43	77	115	15	55
25	92	79	88	118	52	78	96	77	86	102	20	82
26	93	82	89	110	41	74	96	70	85	106	66	83
27	98	79	87	97	36	61	107	39	82	82	48	64
28	96	87	92	115	38	81	98	55	82	87	27	44
29	---	---	---	112	88	99	97	62	75	40	8	27
30	---	---	---	104	59	80	93	62	81	29	7	18
31	---	---	---	122	71	104	---	---	---	29	0	10
MONTH	109	62	87	122	36	84	---	---	---	---	---	---

0208453300 PAMLICO RIVER AT LIGHT 5—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	90	0	50	79	4	27	121	0	53	82	30	60
2	83	12	74	109	1	17	123	0	78	34	1	12
3	122	37	75	81	1	34	137	0	71	95	1	21
4	39	11	25	103	8	56	124	0	15	99	3	69
5	71	6	24	93	14	59	58	0	7	90	57	73
6	57	2	18	90	1	64	45	0	3	91	65	77
7	58	1	14	92	1	26	59	0	4	95	65	78
8	59	0	12	91	0	54	51	0	11	98	46	79
9	58	1	16	87	8	38	78	0	24	125	60	91
10	77	0	24	92	0	18	62	0	19	97	73	85
11	85	23	59	66	0	6	90	1	15	---	---	---
12	86	28	60	101	0	26	37	1	9	---	---	---
13	82	20	47	81	0	37	41	1	5	---	---	---
14	86	0	32	54	15	33	48	1	11	---	---	---
15	66	0	6	59	6	30	96	1	17	---	---	---
16	4	0	0	97	1	42	68	1	14	---	---	---
17	23	0	2	97	1	19	94	11	61	---	---	---
18	56	0	5	82	0	13	101	7	66	---	---	---
19	85	0	68	34	0	4	127	35	68	---	---	---
20	85	70	78	6	0	0	116	0	57	59	2	27
21	84	25	67	3	0	0	52	0	9	102	0	20
22	96	33	65	98	0	3	79	0	12	82	0	26
23	90	13	44	82	0	4	24	0	2	69	0	31
24	102	24	70	3	0	0	58	0	6	82	0	15
25	96	73	85	42	0	3	102	51	74	77	0	36
26	98	78	86	4	0	0	134	70	90	75	21	55
27	88	41	68	13	0	0	103	81	94	103	0	54
28	78	17	50	4	0	0	109	73	90	87	0	45
29	77	14	29	83	0	39	99	83	92	114	59	84
30	86	37	61	95	0	58	91	40	69	78	7	61
31	---	---	---	94	0	63	90	39	66	---	---	---
MONTH	122	0	44	109	0	25	137	0	39	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3

LOCATION.--Lat 35°21'25", long 76°38'47", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 3.

PERIOD OF RECORD.--Water years 1989 to 1992, 1999 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): May 1989 to September 1992, May 1999 current year.
pH (TOP AND BOTTOM): May 1999 to current year.
WATER TEMPERATURE (TOP): May 1989 to September 1992, May 1999 to current year.
WATER TEMPERATURE (BOTTOM): May 1999 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.
DISSOLVED OXYGEN (MID): May 1989 to September 1992.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to September 1992, May 1999 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to September 1992.

INSTRUMENTATION.--Water-quality monitor from May 1989 to September 1992. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from May 1999 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricane Dennis. It was reinstalled on September 9, 1999. The monitor was removed again on September 14, 1999 to prevent possible destruction during Hurricane Floyd. It was reinstalled on October 7, 1999. The monitor was removed on September 15, 2003 to prevent possible destruction of the equipment during Hurricane Isabel. It was reinstalled on September 21, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	20.3, August 26, 2002	0.3, October 11, 1999
SALINITY (BOTTOM), ppt	23.0, October 6, 2002	0.5, October 11, 27, 1999
pH (TOP), standard units	9.5, April 15, 2003, August 15, 2003	6.6, October 7, 1999
pH (BOTTOM), standard units	9.2, April 14, 15, 2003, August 15, 2003	6.6, May 27, 2000, July 12, 2001, May 8, 9, 15, 16, 17, 18, 2004
WATER TEMPERATURE (TOP), °C	33.3, August 20, 1990, July 9, 1991	0.0, January 25, 2003
WATER TEMPERATURE (BOTTOM), °C	32.6, August 1, 1999	0.6, January 25, 2003
DISSOLVED OXYGEN (TOP), mg/L	21.2, January 30, 1992	<1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	18.0, May 3, 1991	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	12.6, January 15, 16	1.6, April 20
SALINITY (BOTTOM), ppt	15.2, November 1	4.0, April 21
pH (TOP), standard units	9.0, April 20	7.3, May 21, June 11, 12, 14
pH (BOTTOM), standard units	8.6, July 17, 19, 14, August 11, 21, 22, 24, 26, 31	6.7, June 10
WATER TEMPERATURE (TOP), °C	33.2, July 27	1.8, January 29
WATER TEMPERATURE (BOTTOM), °C	31.8, July 28	2.0, January 29
DISSOLVED OXYGEN (TOP), mg/L	13.0, April 19	4.2, August 11
DISSOLVED OXYGEN (BOTTOM), mg/L	12.8, February 2	0.1, July 21, 24, August 11
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	166, July 16	34, August 11
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	127, August 4	1, July 21, 24, August 11

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	7.1	8.0	11.7	8.5	9.3	11.8	9.2	11.1	9.0	7.4	8.0
2	7.6	6.4	6.9	10.7	9.5	9.9	11.3	11.0	11.2	9.4	7.6	8.8
3	7.4	5.9	6.9	10.6	9.7	10.1	11.1	10.2	10.7	9.3	7.3	8.6
4	7.4	6.8	7.2	11.8	10.2	10.9	10.2	9.0	9.8	8.5	6.6	7.7
5	7.4	6.4	6.7	11.8	11.2	11.4	9.6	7.9	8.9	8.0	5.3	6.7
6	7.6	6.6	7.0	11.8	11.1	11.4	10.5	7.7	9.3	11.5	8.0	9.1
7	7.8	5.5	6.2	11.4	10.8	11.1	11.1	7.6	9.6	11.4	9.3	10.4
8	6.7	5.4	6.1	12.0	11.1	11.5	10.9	8.3	9.2	11.1	10.4	10.7
9	6.5	5.7	6.2	12.3	11.6	11.9	10.2	8.8	9.3	11.2	10.6	11.0
10	6.4	5.9	6.0	12.2	11.5	11.8	10.5	9.5	10.1	11.1	10.9	11.0
11	6.7	5.8	6.2	11.8	11.2	11.4	10.4	9.4	9.9	11.1	10.9	11.0
12	6.1	4.6	5.5	11.5	11.3	11.4	10.3	9.2	9.6	11.1	10.5	10.9
13	6.9	3.9	5.2	11.8	11.0	11.4	10.5	9.7	10.0	12.0	10.5	11.1
14	6.9	5.9	6.4	11.7	11.3	11.4	10.5	9.7	10.0	12.5	11.4	11.8
15	7.4	6.7	7.0	11.6	10.7	11.4	11.0	9.9	10.2	12.6	11.8	12.2
16	8.1	7.0	7.5	10.7	8.8	9.7	10.6	8.1	9.2	12.6	11.3	11.9
17	8.6	8.0	8.3	9.8	8.2	8.9	9.0	7.5	8.5	12.2	11.5	11.8
18	8.5	8.0	8.2	10.2	7.1	8.8	9.3	8.3	8.9	12.2	10.9	11.7
19	9.0	8.1	8.3	9.5	7.1	8.6	9.3	7.7	8.6	10.9	8.6	9.8
20	9.1	8.1	8.5	10.4	7.1	8.9	9.6	7.7	8.7	10.7	9.9	10.2
21	9.5	8.9	9.1	11.7	7.5	9.4	9.3	8.6	8.9	10.9	9.8	10.4
22	9.5	8.8	9.2	12.2	8.1	10.2	9.7	8.8	9.4	10.9	10.2	10.6
23	9.5	9.0	9.3	12.2	9.7	10.6	10.9	9.5	10.0	10.3	9.2	9.8
24	9.5	6.5	8.8	11.8	10.4	11.0	10.6	9.5	10.2	10.4	6.4	9.1
25	9.0	7.4	8.2	12.1	10.6	11.3	10.7	10.0	10.4	9.5	7.9	8.7
26	9.0	6.5	7.5	12.2	11.4	11.9	10.9	10.2	10.6	9.7	8.8	9.0
27	8.1	5.6	6.7	12.0	11.1	11.7	10.7	10.3	10.6	10.4	8.7	9.6
28	10.2	6.7	7.8	11.7	10.2	11.2	10.3	8.8	9.7	10.5	9.7	10
29	10.6	7.4	8.3	11.7	10.4	11.3	9.6	7.7	8.4	10.6	9.8	10.2
30	8.7	7.5	8.2	11.1	9.6	10.5	9.2	8.7	8.9	10.5	9.3	9.9
31	9.0	8.1	8.7	---	---	---	9.3	8.1	8.9	10.8	10.2	10.5
MONTH	10.6	3.9	7.4	12.3	7.1	10.7	11.8	7.5	9.6	12.6	5.3	10.1
		FEBRUARY			MARCH			APRIL			MAY	
1	10.6	8.1	9.7	11.3	10.6	11.1	7.6	5.4	6.3	8.4	7.5	7.8
2	9.5	7.8	8.5	11.3	11.0	11.1	7.3	5.4	6.4	8.2	7.7	7.9
3	9.0	7.3	8.1	11.0	10.2	10.6	6.6	4.8	5.2	8.1	7.7	7.9
4	10.9	8.8	10.1	10.7	8.0	9.7	6.2	3.2	4.8	8.3	7.8	8.1
5	9.7	7.8	8.8	10	8.9	9.8	5.6	3.6	4.6	8.8	8.0	8.4
6	8.4	6.6	7.4	10.2	8.3	9.4	4.7	3.1	3.8	9.3	7.0	8.3
7	10.6	6.4	8.0	8.9	8.1	8.6	6.8	3.5	4.7	7.6	6.9	7.4
8	11.7	7.9	10.0	10.7	8.6	9.2	6.5	3.9	5.2	7.5	6.7	7.2
9	11.5	7.4	10	9.8	8.2	8.9	7.5	4.6	6.5	7.6	6.6	7.1
10	11.6	7.4	9.2	9.5	8.3	8.9	6.2	5.4	5.9	7.6	6.5	7.1
11	12.0	9.2	10.4	10.2	9.0	9.5	5.9	3.8	4.8	7.5	6.7	7.3
12	11.1	9.8	10.5	10.0	9.5	9.7	7.1	5.0	6.0	7.3	6.3	6.7
13	12.0	10.5	10.8	10.6	9.3	9.8	7.3	5.7	6.4	7.5	6.7	7.2
14	11.6	10.8	11.1	10.6	9.6	10.3	7.9	5.6	6.6	7.2	6.5	6.8
15	11.3	10.9	11.1	10.1	9.5	9.7	7.6	5.2	6.1	7.0	6.0	6.6
16	11.4	10.6	11.1	10.6	9.4	9.9	7.6	5.1	6.2	7.0	5.9	6.4
17	11.7	11.3	11.4	10.7	9.8	10.2	6.2	4.8	5.0	7.8	6.5	7.1
18	11.8	11.3	11.6	10.1	9.4	9.6	5.0	2.9	3.7	7.2	5.7	6.3
19	11.8	10.9	11.5	9.5	9.1	9.4	3.1	2.1	2.5	7.0	6.2	6.6
20	11.9	10.8	11.4	9.4	7.9	8.5	2.7	1.6	2.0	6.9	6.3	6.6
21	11.5	11.2	11.4	8.5	7.5	8.1	3.9	2.3	3.1	7.5	6.3	7.1
22	11.5	10.9	11.4	9.0	8.3	8.7	6.0	3.7	4.6	7.5	6.0	6.3
23	11.6	11.1	11.5	9.1	8.1	8.5	9.2	5.3	7.2	6.5	5.8	6.1
24	11.8	11.2	11.5	9.1	8.2	8.6	8.0	6.4	7.0	6.4	5.8	6.0
25	11.9	11.1	11.7	9.2	7.5	8.5	7.5	6.9	7.2	7.1	5.9	6.4
26	11.7	10.7	11.2	8.5	7.6	8.1	7.7	7.3	7.4	7.0	4.8	5.8
27	11.7	10.4	11.1	8.3	7.6	8.0	7.6	7.1	7.5	5.5	4.8	5.1
28	11.8	11.0	11.4	8.5	7.0	8.0	7.8	7.3	7.5	5.5	4.9	5.3
29	---	---	---	7.6	6.2	7.1	7.8	6.8	7.3	5.7	5.1	5.4
30	---	---	---	7.7	6.3	7.1	8.1	7.3	7.6	5.5	5.0	5.3
31	---	---	---	7.8	5.9	7.3	---	---	---	7.3	5.1	6.0
MONTH	12.0	6.4	10.4	11.3	5.9	9.1	9.2	1.6	5.6	9.3	4.8	6.8

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	6.4	7.3	7.0	6.7	6.8	8.8	8.5	8.7	9.6	8.6	9.2
2	9.1	6.8	8.3	7.1	6.7	7.0	9.3	8.8	9.0	9.5	8.5	9.2
3	8.0	6.6	7.1	7.4	7.0	7.3	9.0	8.3	8.7	9.8	8.5	9.1
4	6.8	6.0	6.5	7.8	6.9	7.5	8.3	7.9	8.2	9.5	8.9	9.2
5	7.7	5.6	6.2	8.1	7.1	7.7	8.3	7.8	8.0	10.2	9.3	9.6
6	7.0	5.5	6.1	7.5	6.7	7.1	8.1	7.7	7.9	10.5	9.5	10.1
7	6.4	6.0	6.2	7.5	6.5	6.9	8.1	7.7	7.9	9.7	9.3	9.5
8	6.8	6.2	6.4	7.8	7.0	7.3	8.5	7.8	8.1	9.8	9.5	9.6
9	6.9	6.3	6.6	7.3	6.8	7.1	8.0	7.8	7.8	9.8	9.3	9.6
10	7.3	6.7	6.9	7.2	6.9	7.0	8.0	7.8	7.9	10.7	9.6	10.2
11	7.3	6.8	7.0	7.1	6.8	6.9	8.0	7.8	7.9	---	---	---
12	7.1	6.7	7.0	7.1	6.4	6.7	8.1	7.8	8.0	---	---	---
13	6.9	6.6	6.8	7.8	6.5	7.1	8.2	7.8	8.0	---	---	---
14	6.9	6.7	6.8	7.9	6.8	7.2	8.1	7.7	7.9	---	---	---
15	7.0	6.2	6.7	7.3	7.0	7.2	8.0	7.7	7.8	---	---	---
16	6.4	6.0	6.1	7.0	6.7	6.8	8.1	7.8	8.0	---	---	---
17	6.7	5.8	6.2	7.1	6.9	7.0	8.5	8.0	8.1	---	---	---
18	7.5	5.2	6.0	7.6	6.8	7.1	8.7	8.4	8.5	---	---	---
19	7.8	7.3	7.6	7.4	6.8	7.0	9.0	8.1	8.5	---	---	---
20	7.8	7.5	7.6	7.3	6.9	7.1	8.8	8.3	8.6	10.2	9.3	9.7
21	7.6	7.0	7.3	7.4	7.0	7.1	8.3	7.6	8.1	10	8.8	9.5
22	7.6	7.0	7.2	7.7	7.2	7.4	8.3	7.6	7.9	10.5	9.3	9.8
23	7.4	6.8	7.1	8.1	7.3	7.7	8.2	7.3	7.8	10.1	9.4	9.6
24	8.2	7.1	7.5	8.6	7.8	8.2	8.3	7.5	7.9	10.2	9.3	9.6
25	8.6	7.5	8.0	8.9	7.1	8.0	9.4	8.3	9.0	11.3	10.1	10.9
26	8.3	7.1	7.6	8.3	8.0	8.1	9.3	8.1	8.7	11.3	10.2	10.6
27	7.8	7.2	7.5	8.3	7.8	8.1	9.2	8.6	8.8	11.2	10	10.5
28	7.5	6.8	7.0	8.6	7.8	8.2	8.9	8.3	8.6	11.5	10.1	10.9
29	7.5	6.8	7.1	8.9	8.6	8.7	9.6	8.5	8.9	11.1	9.7	10.1
30	7.5	6.7	7.1	8.8	8.6	8.7	9.7	8.5	8.8	11.8	10.4	11.1
31	---	---	---	8.8	8.6	8.7	8.8	8.3	8.6	---	---	---
MONTH	9.1	5.2	7.0	8.9	6.4	7.4	9.7	7.3	8.3	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.1	8.9	15.2	10.6	14.2	12.3	11.4	11.8	14.1	9.7	12.3
2	9.5	7.5	8.5	14.6	10.9	13.2	11.6	11.1	11.2	14.1	11.0	12.9
3	10.9	7.0	8.1	14.7	10.1	11.9	11.4	10.3	10.9	14.3	10.8	13.3
4	10.9	7.1	8.1	14.1	11.4	12.8	12.0	10.7	11.2	14.5	10.5	13.9
5	9.6	6.4	7.2	11.7	11.1	11.4	12.4	9.9	11.5	14.7	9.0	14.1
6	7.8	6.7	7.3	11.9	11.2	11.6	12.5	10.2	12.2	15.1	11.8	14.4
7	7.8	6.2	7.2	12.1	10.9	11.4	12.7	10.4	12.0	15.1	11.3	14.1
8	7.6	6.1	6.8	11.9	11.1	11.5	12.2	10.3	11.1	14.7	10.8	13.0
9	7.9	6.4	7.1	12.2	11.5	11.8	12.0	8.3	11.1	14.5	10.9	11.8
10	7.5	5.9	6.5	12.2	11.7	11.9	11.7	8.9	10.4	13.6	11.1	11.7
11	10.4	6.1	6.7	11.8	11.3	11.6	10.4	9.5	9.9	13.6	11.1	11.6
12	8.3	5.5	7.0	11.8	11.3	11.4	11.7	9.2	9.8	14.3	11.1	11.6
13	14.5	7.1	11.7	11.7	10.9	11.3	10.6	9.7	10.1	---	---	---
14	11.6	6.4	8.1	11.7	11.2	11.3	10.6	9.8	10.1	12.6	11.5	11.9
15	13.1	7.0	9.2	11.5	10.8	11.4	11.0	9.9	10.4	12.8	11.9	12.3
16	8.5	7.1	7.8	11.7	10.3	11.3	11.3	9.4	10.3	12.8	11.4	12.0
17	8.7	8.1	8.5	12.6	10.7	11.8	12.0	9.0	10.2	12.4	11.7	11.9
18	11.8	8.1	9.0	13.2	11.3	12.4	11.7	9.2	10.4	12.3	11.4	11.9
19	11.9	8.3	9.8	14.1	11.1	13.0	11.8	8.8	9.9	12.1	9.8	11.3
20	11.0	8.5	9.4	14.3	12.4	13.7	10.2	8.1	9.1	11.2	10.4	10.8
21	9.8	9.0	9.2	14.7	11.8	13.7	12.5	9.1	10.1	11.1	10.3	10.7
22	9.5	8.9	9.2	14.8	13.0	14.2	13.0	10.0	11.3	11.1	10.2	10.8
23	9.5	9.0	9.3	14.6	11.8	13.4	12.9	9.8	11.4	10.4	9.3	9.9
24	10.6	8.6	9.4	14.3	11.6	12.8	11.5	10	10.4	12.9	10.1	10.8
25	11.1	8.3	10.1	12.4	10.6	11.4	10.7	10.2	10.5	13.3	9.0	11.4
26	13.0	7.5	10.3	12.4	11.4	12.0	11.0	10.3	10.7	12.7	10.4	11.3
27	13.6	10.7	12.4	12.1	11.5	11.9	10.7	10.5	10.6	12.3	9.3	10.1
28	14.1	11.5	13.4	11.8	11.3	11.5	11.8	10.1	10.9	11.0	9.7	10.0
29	13.7	10.6	12.5	11.8	11.2	11.6	11.7	8.5	10.0	11.6	9.9	10.7
30	14.1	9.9	12.9	12.3	11.1	12.0	10.8	9.2	9.4	11.7	9.8	10.4
31	14.6	9.7	13.1	---	---	---	13.9	9.5	10.2	10.8	10.2	10.5
MONTH	14.6	5.5	9.2	15.2	10.1	12.2	13.9	8.1	10.6	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	10.7	8.6	10.2	11.6	10.7	11.2	9.8	6.2	7.9	8.5	7.6	7.9
2	11.5	9.0	10.0	11.3	11.0	11.1	9.1	5.5	7.0	8.3	7.8	8.1
3	11.6	8.7	10.5	11.5	10.2	10.7	7.8	4.9	5.4	8.2	7.8	8.0
4	11.0	9.0	10.3	12.4	10.6	11.3	7.8	4.2	5.6	8.5	7.8	8.1
5	11.9	9.0	10.7	12.3	9.7	10.1	11.0	4.6	7.5	8.8	8.1	8.5
6	12.9	8.3	10.7	10.4	9.1	9.8	10.6	6.1	8.0	9.3	7.0	8.4
7	13.7	12.0	12.8	10.7	8.6	9.0	10.8	6.1	8.5	8.0	7.0	7.6
8	13.8	11.5	13.1	11.2	8.6	9.4	8.4	6.5	7.5	8.1	7.2	7.5
9	14.5	12.0	13.5	10.2	8.7	9.4	7.5	5.4	6.7	8.9	7.3	7.8
10	14.7	9.4	12.1	12.3	9.0	9.7	7.2	5.6	6.1	8.1	7.0	7.8
11	12.2	9.2	10.9	13.0	9.5	10.7	8.2	4.9	7.1	7.6	7.0	7.4
12	13.1	10.7	11.6	10.6	9.5	9.8	8.2	5.7	7.2	9.0	6.5	7.0
13	13.0	11.2	12.2	10.8	9.9	10.4	7.5	5.9	6.6	8.8	7.1	7.4
14	13.0	11.3	12.1	10.6	10.1	10.4	7.9	5.6	6.7	7.7	6.8	7.4
15	12.8	11.3	11.8	10.5	9.7	10.1	7.6	5.2	6.1	9.1	6.6	7.2
16	12.7	11.1	11.7	10.7	9.8	10.2	8.0	5.1	6.3	9.8	6.0	7.0
17	11.7	11.3	11.4	10.7	9.8	10.3	7.6	4.9	6.0	9.2	6.8	7.7
18	12.1	11.5	11.8	10.4	9.4	10.0	8.3	4.4	6.0	7.7	6.5	7.3
19	12.2	11.6	11.8	9.8	9.3	9.5	13.0	4.5	9.7	7.2	6.6	6.9
20	12.1	11.6	11.9	9.5	8.8	9.3	13.7	7.6	12.3	7.0	6.3	6.7
21	12.0	11.4	11.6	10.8	7.8	9.3	13.9	4.0	11.8	7.5	6.4	7.1
22	11.8	11.4	11.5	10.6	8.6	9.2	13.7	5.8	10.0	7.5	6.0	6.5
23	11.7	11.3	11.5	9.5	8.2	8.8	13.4	6.1	9.5	7.0	6.2	6.6
24	11.8	11.2	11.5	10.6	8.5	8.8	8.2	6.6	7.2	8.0	5.9	6.6
25	11.9	11.1	11.7	9.8	8.8	9.3	7.5	7.0	7.3	7.1	5.9	6.5
26	11.9	11.3	11.5	9.1	8.3	8.6	8.5	7.3	7.6	8.1	5.3	6.7
27	12.0	11.1	11.6	8.6	8.1	8.4	8.2	7.3	7.5	10.3	6.3	7.9
28	11.8	11.0	11.4	8.5	6.9	8.0	8.1	7.3	7.7	9.7	5.5	6.9
29	---	---	---	8.3	6.5	7.4	8.9	7.1	7.6	6.4	5.3	5.8
30	---	---	---	10	7.1	8.4	9.7	7.3	7.8	7.2	5.2	5.8
31	---	---	---	9.2	6.2	7.9	---	---	---	11.8	5.9	8.9
MONTH	14.7	8.3	11.6	13.0	6.2	9.6	13.9	4.0	7.6	11.8	5.2	7.3

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.2	7.1	8.7	9.7	7.0	8.0	9.1	8.5	8.8	9.8	8.9	9.4
2	9.4	8.3	8.7	8.8	7.0	7.4	9.1	8.8	8.9	9.7	9.4	9.6
3	9.0	7.3	8.4	8.5	7.2	7.6	9.0	8.5	8.8	10.6	8.9	9.5
4	9.1	7.5	8.7	8.0	7.4	7.6	8.7	8.3	8.5	10.6	9.2	9.6
5	9.1	7.5	8.6	8.2	7.1	7.8	8.7	8.0	8.2	10.2	9.3	9.6
6	8.8	7.8	8.3	7.8	7.0	7.3	8.4	7.9	8.1	10.5	9.5	10.1
7	9.8	6.5	8.2	8.6	7.2	7.9	9.0	7.8	8.1	9.7	9.3	9.5
8	9.8	7.0	8.6	7.7	7.0	7.4	8.5	8.0	8.3	9.8	9.5	9.6
9	9.0	7.6	8.3	8.6	7.0	7.3	8.2	7.8	8.0	10	9.6	9.7
10	8.6	7.0	7.8	8.6	7.1	7.4	8.5	7.8	7.9	10.7	9.5	10.1
11	7.6	6.9	7.2	8.8	6.8	7.4	9.4	7.8	8.1	---	---	---
12	7.9	6.8	7.1	9.9	6.5	7.3	9.7	7.8	8.4	---	---	---
13	7.9	6.8	7.1	10.9	6.5	7.6	9.6	7.8	8.3	---	---	---
14	8.8	6.8	7.1	8.6	7.4	7.9	8.6	7.8	8.0	---	---	---
15	7.6	6.8	7.1	8.1	7.2	7.5	8.1	7.6	7.8	---	---	---
16	7.6	6.2	6.8	11.3	7.1	8.3	10.4	7.9	8.7	---	---	---
17	8.8	6.1	7.3	11.0	7.0	7.8	9.3	7.8	8.1	---	---	---
18	9.8	6.2	7.9	11.2	6.8	7.8	8.9	8.3	8.5	---	---	---
19	8.0	7.5	7.7	8.1	6.9	7.4	9.0	8.5	8.8	---	---	---
20	7.8	7.5	7.7	8.3	7.0	7.4	8.8	8.5	8.7	14.7	10.2	12.3
21	8.0	7.4	7.7	12.4	7.0	7.9	9.0	7.7	8.4	14.2	9.5	10.8
22	8.4	7.0	7.4	9.3	7.3	7.7	9.2	7.7	8.4	13.0	10.0	10.8
23	10.4	7.0	8.2	10.9	7.4	8.4	8.9	8.0	8.3	12.6	9.7	10.5
24	10.2	7.5	8.0	11.5	7.8	9.1	10.9	7.6	8.6	13.2	9.5	10.4
25	8.7	7.6	8.1	9.6	8.2	8.8	11.2	9.2	9.7	12.0	10.6	11.2
26	8.8	7.5	8.0	11.2	8.1	8.4	9.5	8.6	9.3	11.4	10.4	11.0
27	9.2	7.6	8.1	11.3	8.2	8.9	9.4	8.8	9.1	11.3	10.0	10.6
28	9.0	7.5	8.1	9.7	8.0	8.6	9.5	8.8	9.2	11.7	10.9	11.4
29	9.2	7.2	8.3	9.6	8.6	8.9	9.8	8.7	9.2	11.4	10.4	11.1
30	8.6	7.0	7.6	10.0	8.6	8.8	10	9.0	9.6	11.8	10.4	11.1
31	---	---	---	10.0	8.6	8.8	9.3	8.5	8.9	---	---	---
MONTH	11.2	6.1	7.9	12.4	6.5	7.9	11.2	7.6	8.6	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.5	7.7	8.2	7.8	8.0	8.0	7.9	7.9	8.2	8.0	8.1
2	8.0	7.5	7.7	8.1	7.8	8.0	8.1	7.8	8.0	8.1	8.0	8.0
3	8.3	7.4	7.8	8.1	7.8	7.9	8.2	8.1	8.1	8.2	8.1	8.1
4	8.3	7.8	8.0	8.1	7.8	7.9	8.2	8.1	8.2	8.2	8.0	8.2
5	8.2	7.9	8.0	8.0	7.8	7.8	8.3	8.2	8.3	8.3	8.1	8.2
6	8.2	7.8	7.9	8.0	7.8	7.9	8.3	8.2	8.2	8.2	7.9	8.1
7	8.1	7.7	7.9	8.0	7.8	7.9	8.3	8.1	8.2	8.0	7.9	8.0
8	8.3	7.6	7.9	8.0	7.9	7.9	8.3	8.0	8.2	8.0	7.9	8.0
9	8.3	7.7	8.0	8.0	7.8	7.9	8.2	8.0	8.1	8.0	7.9	7.9
10	8.3	7.9	8.1	8.0	7.9	7.9	8.0	7.8	8.0	8.0	7.9	8.0
11	8.3	7.9	8.1	8.0	7.8	7.9	8.1	7.9	8.0	8.0	8.0	8.0
12	8.4	8.0	8.3	7.9	7.6	7.8	8.1	8.0	8.0	8.1	8.0	8.0
13	8.4	8.1	8.3	7.9	7.8	7.8	8.1	7.9	8.0	8.1	7.8	8.0
14	8.1	7.9	8.0	7.9	7.8	7.9	8.1	8.0	8.0	7.9	7.5	7.8
15	8.0	7.8	8.0	8.0	7.9	8.0	8.1	8.0	8.0	7.7	7.6	7.6
16	8.0	7.6	7.8	8.0	7.9	8.0	8.2	8.1	8.2	7.8	7.6	7.7
17	8.0	7.7	7.9	8.1	7.9	8.0	8.3	8.2	8.2	7.7	7.6	7.6
18	8.0	7.8	7.9	8.1	8.0	8.1	8.3	8.2	8.2	7.8	7.6	7.7
19	8.0	7.8	7.9	8.2	8.0	8.1	8.3	8.2	8.2	8.2	7.8	8.0
20	8.1	7.9	8.0	8.2	7.9	8.1	8.2	8.0	8.1	8.1	7.9	8.0
21	8.0	7.8	7.9	8.2	7.8	8.1	8.1	8.0	8.1	8.0	7.8	7.9
22	8.0	7.7	7.8	8.2	7.9	8.1	8.1	7.9	8.0	7.9	7.8	7.9
23	8.0	7.7	7.8	8.2	7.8	8.1	8.0	7.9	7.9	7.9	7.7	7.8
24	8.0	7.8	7.9	8.1	7.8	8.0	7.9	7.9	7.9	7.8	7.6	7.7
25	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.8	7.9	7.8	7.6	7.7
26	8.2	7.8	8.0	7.9	7.8	7.9	7.9	7.8	7.8	7.7	7.6	7.7
27	8.3	7.8	8.1	8.0	7.8	7.9	7.9	7.8	7.8	7.8	7.7	7.7
28	8.2	7.8	8.1	8.0	7.9	7.9	8.0	7.9	7.9	7.7	7.7	7.7
29	8.2	7.7	8.1	8.0	7.8	7.9	8.0	8.0	8.0	7.8	7.7	7.7
30	8.2	8.0	8.1	8.1	7.9	8.0	8.1	8.0	8.0	7.8	7.7	7.7
31	8.2	8.0	8.1	---	---	---	8.1	8.0	8.0	7.8	7.7	7.7
MONTH	8.4	7.4	8.0	8.2	7.6	8.0	8.3	7.8	8.0	8.3	7.5	7.9
		FEBRUARY			MARCH			APRIL			MAY	
1	7.8	7.7	7.7	7.9	7.8	7.9	8.4	7.7	8.1	7.8	7.5	7.6
2	7.8	7.7	7.7	7.8	7.8	7.8	8.0	7.6	7.8	7.9	7.5	7.7
3	7.7	7.7	7.7	7.8	7.8	7.8	8.0	7.7	7.8	8.0	7.5	7.7
4	7.7	7.6	7.7	8.1	7.8	7.9	8.0	7.6	7.8	7.6	7.4	7.6
5	7.7	7.6	7.7	8.1	7.9	8.0	8.3	7.7	8.0	7.5	7.4	7.5
6	7.7	7.6	7.7	8.2	8.0	8.1	8.7	8.0	8.3	7.5	7.4	7.4
7	7.8	7.6	7.7	8.3	8.1	8.2	8.4	7.8	8.2	7.7	7.4	7.5
8	7.8	7.8	7.8	8.2	7.8	7.9	8.2	7.8	8.1	7.9	7.5	7.7
9	7.9	7.8	7.8	8.0	7.8	7.9	8.0	7.7	7.8	8.0	7.6	7.8
10	7.9	7.8	7.8	8.1	7.8	8.0	8.0	7.6	7.8	7.9	7.6	7.8
11	7.8	7.7	7.7	8.1	7.9	8.0	8.6	7.8	8.1	8.1	7.6	7.8
12	7.8	7.7	7.8	8.1	7.8	8.0	8.2	7.7	7.9	8.3	7.8	8.0
13	8.0	7.8	7.8	8.1	7.9	8.0	7.8	7.7	7.8	8.0	7.6	7.7
14	7.9	7.8	7.9	7.9	7.8	7.9	7.9	7.7	7.8	8.2	7.6	7.9
15	8.0	7.8	8.0	8.0	7.8	7.9	7.8	7.7	7.7	8.4	7.6	7.9
16	8.1	8.0	8.0	8.0	7.9	8.0	8.0	7.7	7.8	8.3	8.0	8.1
17	8.1	8.0	8.0	7.9	7.8	7.8	8.2	7.8	8.0	8.2	7.6	7.9
18	8.1	8.0	8.0	7.9	7.7	7.8	8.7	8.2	8.5	8.0	7.6	7.8
19	8.1	8.0	8.0	7.8	7.8	7.8	8.9	8.5	8.7	7.8	7.6	7.7
20	8.1	8.0	8.1	8.0	7.8	7.9	9.0	8.7	8.8	7.8	7.5	7.6
21	8.1	8.0	8.1	8.1	7.9	8.0	8.8	8.4	8.6	7.8	7.3	7.5
22	8.1	8.0	8.0	8.0	7.8	7.9	8.6	8.2	8.5	7.9	7.6	7.8
23	8.0	8.0	8.0	7.8	7.7	7.8	8.3	7.6	8.0	8.3	7.6	7.9
24	8.0	7.9	8.0	7.9	7.7	7.8	8.0	7.7	7.9	8.3	7.8	8.1
25	8.0	7.9	7.9	7.9	7.6	7.8	7.9	7.7	7.8	8.0	7.8	7.9
26	8.1	7.9	8.0	7.9	7.7	7.8	7.8	7.7	7.7	8.3	7.6	7.9
27	8.1	7.9	8.0	7.8	7.7	7.8	7.9	7.6	7.7	8.4	7.9	8.2
28	8.0	7.8	7.9	7.8	7.6	7.7	7.8	7.6	7.7	8.4	8.1	8.2
29	---	---	---	8.0	7.6	7.8	7.9	7.6	7.7	8.5	8.2	8.3
30	---	---	---	8.1	7.7	7.9	7.7	7.4	7.6	8.4	8.1	8.2
31	---	---	---	8.1	7.8	7.9	---	---	---	8.3	7.9	8.1
MONTH	8.1	7.6	7.9	8.3	7.6	7.9	9.0	7.4	8.0	8.5	7.3	7.8

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	7.8	7.9	8.6	8.0	8.3	8.3	7.9	8.1	8.6	8.1	8.3
2	7.9	7.6	7.7	8.5	8.2	8.3	8.6	7.9	8.2	8.7	8.3	8.5
3	8.3	7.5	7.8	8.4	8.2	8.3	8.6	8.2	8.3	8.6	8.3	8.5
4	8.3	7.8	8.1	8.5	8.0	8.3	8.6	8.2	8.4	8.6	8.4	8.5
5	8.8	7.7	8.4	8.3	7.7	8.1	8.7	8.2	8.5	8.5	8.2	8.3
6	8.9	8.0	8.5	8.3	7.5	8.1	8.6	8.3	8.4	8.5	8.2	8.3
7	8.6	8.0	8.2	8.6	8.0	8.3	8.5	8.1	8.3	8.4	8.2	8.3
8	8.5	8.0	8.3	8.3	7.4	8.0	8.4	8.0	8.2	8.3	8.1	8.2
9	8.5	7.9	8.3	8.6	7.6	8.2	8.3	8.0	8.1	8.3	8.0	8.1
10	8.2	7.4	7.9	8.6	7.6	8.2	8.6	7.8	8.1	8.1	8.0	8.0
11	7.6	7.3	7.4	8.7	8.1	8.4	8.8	7.7	8.3	---	---	---
12	7.7	7.3	7.4	8.6	8.0	8.4	8.6	8.2	8.4	---	---	---
13	8.2	7.5	7.8	8.4	7.6	8.0	8.5	8.1	8.3	---	---	---
14	8.2	7.3	7.6	8.5	7.5	8.0	8.5	8.1	8.3	---	---	---
15	8.4	7.5	8.0	8.6	8.0	8.3	8.5	7.8	8.2	---	---	---
16	8.4	8.2	8.3	8.9	8.3	8.6	8.4	8.3	8.4	---	---	---
17	8.4	7.9	8.1	8.7	8.5	8.6	8.4	8.0	8.2	---	---	---
18	8.4	7.8	8.2	8.7	8.2	8.5	8.3	8.1	8.2	---	---	---
19	8.2	7.6	7.9	8.7	8.3	8.5	8.6	7.9	8.3	---	---	---
20	8.1	7.9	8.0	8.6	8.3	8.5	8.6	8.1	8.3	8.6	8.1	8.4
21	8.2	7.8	8.0	8.7	8.3	8.5	8.6	8.2	8.5	8.6	8.2	8.4
22	8.2	7.6	8.0	8.6	8.1	8.4	8.6	8.3	8.5	8.4	8.1	8.3
23	8.3	7.9	8.1	8.7	8.1	8.5	8.6	8.3	8.5	8.7	8.3	8.5
24	8.3	7.7	8.0	8.7	8.2	8.5	8.6	8.3	8.5	8.5	8.2	8.4
25	8.1	7.6	7.9	8.7	8.3	8.5	8.4	8.2	8.3	8.3	8.1	8.2
26	8.0	7.6	7.7	8.7	8.2	8.5	8.6	8.2	8.4	8.3	8.1	8.2
27	8.2	7.6	7.9	8.7	8.3	8.5	8.5	8.2	8.3	8.2	8.0	8.1
28	8.2	7.8	8.1	8.6	8.3	8.5	8.4	8.2	8.3	8.3	8.0	8.2
29	8.1	7.8	8.0	8.4	8.0	8.2	8.3	8.2	8.2	8.4	8.0	8.1
30	8.4	7.5	7.9	8.2	8.0	8.1	8.5	8.1	8.3	8.2	8.0	8.1
31	---	---	---	8.4	8.0	8.1	8.4	8.0	8.3	---	---	---
MONTH	8.9	7.3	8.0	8.9	7.4	8.3	8.8	7.7	8.3	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.2	7.7	7.9	7.5	7.6	7.9	7.8	7.9	8.1	7.7	7.8
2	8.0	7.6	7.7	8.0	7.4	7.7	8.1	7.8	8.0	8.0	7.7	7.8
3	8.0	7.4	7.6	8.1	7.4	7.7	8.2	8.1	8.1	8.0	7.7	7.8
4	8.0	7.3	7.7	7.9	7.3	7.6	8.2	8.0	8.1	8.0	7.7	7.8
5	8.2	7.3	7.9	8.0	7.7	7.8	8.2	7.9	8.0	8.2	7.7	7.8
6	8.2	7.7	7.9	8.0	7.8	7.9	8.2	7.9	8.0	8.0	7.7	7.8
7	8.0	7.5	7.8	8.0	7.8	7.9	8.2	7.8	8.0	8.1	7.6	7.8
8	7.9	7.2	7.7	7.9	7.9	7.9	8.1	7.9	8.0	8.1	7.7	7.9
9	8.1	7.2	7.6	8.0	7.8	7.9	8.2	7.8	8.0	8.0	7.5	7.8
10	8.4	7.5	8.0	8.0	7.9	7.9	8.0	7.7	7.9	8.0	7.7	7.9
11	8.4	7.4	8.1	8.0	7.9	7.9	8.1	7.9	8.0	8.0	7.6	7.9
12	8.5	7.7	8.1	7.9	7.7	7.8	8.1	7.9	8.0	8.0	7.4	7.9
13	8.2	7.7	7.9	7.9	7.8	7.8	8.1	7.9	8.0	8.0	7.4	7.8
14	8.3	7.7	8.0	7.9	7.8	7.9	8.1	8.0	8.0	7.9	7.5	7.8
15	8.2	7.6	7.9	8.0	7.9	7.9	8.1	8.0	8.0	7.7	7.6	7.6
16	8.3	7.9	8.1	8.0	7.8	7.9	8.1	7.9	8.0	7.8	7.6	7.7
17	8.2	8.0	8.1	8.0	7.7	7.8	8.2	7.8	8.0	7.8	7.7	7.7
18	8.3	7.5	8.0	7.9	7.5	7.7	8.2	7.8	8.0	7.8	7.7	7.8
19	8.2	7.5	7.8	7.8	7.6	7.7	8.2	7.8	8.1	8.1	7.7	7.9
20	8.2	7.5	7.8	7.8	7.6	7.8	8.2	8.0	8.1	8.0	7.8	7.9
21	8.2	7.4	8.0	8.0	7.6	7.7	8.0	7.9	8.0	8.0	7.8	7.9
22	8.1	7.8	7.9	8.0	7.7	7.7	8.0	7.9	7.9	8.0	7.9	7.9
23	8.0	7.8	7.9	7.9	7.6	7.7	8.0	7.8	7.9	8.0	7.7	7.8
24	8.0	7.7	7.9	7.8	7.6	7.7	8.0	7.8	8.0	7.7	7.6	7.6
25	8.1	7.7	7.8	8.0	7.7	7.9	7.9	7.8	7.8	7.6	7.6	7.6
26	8.0	7.5	7.8	7.9	7.8	7.8	7.8	7.8	7.8	7.9	7.5	7.7
27	7.9	7.5	7.7	7.9	7.8	7.8	7.9	7.8	7.8	7.9	7.8	7.9
28	7.8	7.6	7.7	7.9	7.8	7.9	7.9	7.8	7.8	7.9	7.9	7.9
29	8.0	7.4	7.6	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.9	7.9
30	7.9	7.4	7.6	8.0	7.8	7.8	8.0	7.8	8.0	7.9	7.9	7.9
31	8.1	7.5	7.6	---	---	---	8.0	7.8	8.0	7.9	7.9	7.9
MONTH	8.5	7.2	7.8	8.1	7.3	7.8	8.2	7.7	8.0	8.2	7.4	7.8
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.9	7.9	8.0	7.9	8.0	8.2	7.5	7.8	7.5	7.4	7.5
2	7.9	7.8	7.9	8.0	7.9	8.0	8.0	7.5	7.8	7.8	7.3	7.5
3	7.9	7.8	7.9	8.0	7.7	7.9	7.9	7.7	7.9	7.7	7.4	7.5
4	7.9	7.8	7.9	8.0	7.6	7.8	8.0	7.6	7.8	7.8	7.5	7.6
5	7.9	7.8	7.9	8.2	7.8	8.0	7.9	7.5	7.7	7.7	7.6	7.7
6	7.9	7.8	7.8	8.3	7.8	8.1	7.8	7.3	7.6	7.7	7.5	7.6
7	7.9	7.7	7.8	8.3	8.0	8.2	8.2	7.3	7.7	7.7	7.5	7.6
8	7.9	7.7	7.8	8.2	7.9	8.0	7.8	7.5	7.7	8.1	7.5	7.8
9	7.9	7.8	7.8	8.2	7.7	8.0	8.0	7.6	7.9	8.2	7.2	7.7
10	8.0	7.8	7.9	8.3	8.0	8.2	8.0	7.6	7.8	8.0	7.4	7.7
11	7.9	7.8	7.9	8.3	7.9	8.1	8.0	7.5	7.7	8.1	7.6	7.7
12	8.0	7.8	7.9	8.3	8.1	8.2	8.1	7.3	7.7	8.2	7.1	7.7
13	8.0	7.8	7.9	8.2	8.1	8.1	7.8	7.7	7.8	7.8	7.1	7.7
14	8.0	7.8	7.9	8.2	8.1	8.2	8.0	7.7	7.8	7.8	7.1	7.6
15	8.2	7.8	7.9	8.3	8.1	8.2	7.9	7.7	7.8	8.0	6.9	7.5
16	8.2	7.8	8.1	8.2	8.0	8.2	8.0	7.7	7.8	8.3	6.9	7.7
17	8.3	8.2	8.2	8.1	8.0	8.1	8.2	7.7	7.9	8.2	6.9	7.7
18	8.2	8.1	8.2	8.1	8.0	8.0	8.3	7.4	7.8	8.0	7.4	7.7
19	8.2	8.1	8.1	8.1	8.0	8.1	8.2	7.5	7.7	7.8	7.4	7.6
20	8.2	8.0	8.1	8.2	8.0	8.1	8.1	7.3	7.5	7.7	7.5	7.6
21	8.2	7.8	8.1	8.2	7.8	8.0	8.3	7.4	7.6	7.7	7.3	7.5
22	8.2	8.0	8.1	8.1	7.8	8.0	8.3	7.4	7.7	7.7	7.4	7.6
23	8.2	8.1	8.2	8.1	7.9	8.0	8.0	7.3	7.6	7.8	7.2	7.5
24	8.2	8.1	8.1	8.0	7.6	8.0	7.9	7.6	7.8	8.0	7.2	7.7
25	8.1	7.9	8.0	8.0	7.9	8.0	7.8	7.6	7.7	8.0	7.7	7.8
26	8.1	7.8	8.0	8.0	7.9	8.0	7.7	7.5	7.6	7.9	7.6	7.7
27	8.2	7.8	8.0	8.0	7.8	7.9	7.7	7.5	7.6	7.8	7.3	7.5
28	8.1	7.9	8.0	8.0	7.7	7.9	7.7	7.5	7.6	8.2	7.2	7.8
29	---	---	---	8.0	7.9	7.9	7.7	7.2	7.6	8.3	7.5	7.9
30	---	---	---	8.0	7.6	7.8	7.6	7.0	7.5	8.2	7.4	8.0
31	---	---	---	8.1	7.7	7.9	---	---	---	7.9	7.1	7.4
MONTH	8.3	7.7	8.0	8.3	7.6	8.0	8.3	7.0	7.7	8.3	6.9	7.6

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	7.1	7.5	8.4	7.0	7.6	8.2	7.9	8.0	8.3	8.0	8.2
2	7.8	7.5	7.6	8.5	7.1	8.2	8.5	7.9	8.1	8.3	7.8	8.1
3	7.7	7.2	7.4	8.4	7.2	8.1	8.3	7.8	8.1	8.4	7.5	8.2
4	7.6	7.2	7.3	8.4	7.5	8.2	8.4	7.3	8.1	8.4	7.4	8.1
5	7.7	7.2	7.3	8.4	7.7	8.1	8.5	7.7	8.2	8.3	8.1	8.2
6	7.4	7.1	7.2	8.2	7.4	7.8	8.4	7.5	8.1	8.2	8.0	8.2
7	7.5	6.8	7.1	8.1	7.2	7.6	8.4	7.3	8.1	8.2	8.1	8.2
8	7.3	6.8	6.9	8.1	7.4	7.8	8.2	7.9	8.0	8.3	8.0	8.2
9	7.4	6.8	7.0	8.1	7.0	7.7	8.2	7.8	8.0	8.3	8.1	8.2
10	7.8	6.7	7.0	8.0	7.0	7.5	8.4	7.5	8.0	8.2	8.1	8.1
11	7.5	6.8	7.0	8.4	7.0	7.6	8.6	7.1	7.9	---	---	---
12	7.5	6.8	7.2	8.4	7.0	8.0	8.4	7.1	8.0	---	---	---
13	7.7	6.8	7.2	8.4	7.0	7.8	8.4	7.2	7.9	---	---	---
14	7.9	6.9	7.4	8.0	7.4	7.6	8.3	7.4	7.9	---	---	---
15	7.9	7.2	7.6	8.5	7.7	8.0	8.5	7.8	8.1	---	---	---
16	8.3	7.2	7.7	8.4	7.0	7.9	8.4	7.2	7.9	---	---	---
17	8.2	7.1	7.8	8.6	7.1	8.3	8.3	7.3	8.1	---	---	---
18	8.3	7.0	7.6	8.5	7.0	8.2	8.3	8.0	8.2	---	---	---
19	8.2	7.3	7.9	8.6	7.7	8.3	8.4	7.8	8.1	---	---	---
20	8.1	8.0	8.0	8.5	7.8	8.3	8.4	8.0	8.2	8.3	7.1	7.6
21	8.1	7.7	7.9	8.5	7.1	8.2	8.6	7.8	8.2	8.6	7.1	7.9
22	8.3	7.3	7.8	8.5	7.9	8.2	8.6	7.6	8.1	8.4	7.2	8.0
23	8.2	7.1	7.7	8.5	7.3	8.1	8.5	8.0	8.3	8.3	7.2	8.0
24	8.3	7.1	7.8	8.6	7.2	8.2	8.6	7.4	8.2	8.4	7.3	8.1
25	8.2	7.3	7.9	8.5	8.0	8.3	8.4	7.3	8.0	8.3	7.6	8.1
26	8.0	7.7	7.9	8.4	7.3	8.2	8.6	8.2	8.3	8.2	8.0	8.1
27	8.1	7.3	7.7	8.4	7.3	7.9	8.5	8.2	8.3	8.2	7.9	8.1
28	8.1	7.2	7.7	8.5	7.4	8.2	8.4	8.0	8.2	8.3	8.0	8.1
29	8.1	7.1	7.5	8.2	7.5	8.0	8.4	8.1	8.2	8.2	7.9	8.0
30	7.7	7.2	7.5	8.2	7.2	8.0	8.5	8.0	8.2	8.2	8.0	8.1
31	---	---	---	8.1	7.2	8.0	8.6	8.2	8.4	---	---	---
MONTH	8.3	6.7	7.5	8.6	7.0	8.0	8.6	7.1	8.1	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.1	23.4	23.8	20.2	18.1	19.4	13.0	11.8	12.6	6.8	5.6	5.9
2	24.7	23.8	24.0	20.7	18.5	19.5	12.5	11.8	12.2	7.9	6.0	7.1
3	25.4	24.0	24.4	19.7	18.9	19.3	12.0	11.3	11.7	8.1	6.3	7.0
4	25.2	24.0	24.5	19.5	18.6	18.9	11.7	10.4	11.1	9.2	6.4	7.8
5	24.6	23.5	24.2	18.8	17.8	18.1	11.6	10.0	10.8	9.9	8.6	9.3
6	23.6	22.5	23.1	18.0	17.2	17.5	11.8	10.6	11.4	9.7	8.8	9.1
7	23.2	21.6	22.1	17.2	16.6	16.9	12.9	11.3	12.0	10.2	9.0	9.6
8	22.3	21.2	21.8	16.8	16.1	16.6	14.5	12.6	13.1	10.4	9.6	10.0
9	22.6	21.4	21.8	16.1	15.1	15.6	13.7	13.0	13.2	10.7	9.8	10.2
10	22.7	21.6	22.0	15.5	14.6	14.9	14.7	13.3	14.0	11.1	9.8	10.3
11	22.2	21.1	21.6	15.1	14.2	14.6	14.4	13.2	13.9	11.0	10.2	10.5
12	21.5	20.0	20.9	15.0	14.4	14.7	13.3	12.4	12.8	12.1	10.2	10.8
13	21.3	20.3	20.9	15.0	13.8	14.6	12.4	11.6	12.0	12.6	11.0	11.6
14	21.2	20.9	21.1	13.8	12.6	13.2	11.8	10.7	11.1	12.7	11.5	11.9
15	20.9	20.1	20.6	13.1	12.2	12.7	10.7	8.9	9.8	11.5	10.0	10.6
16	20.1	18.6	19.4	12.2	11.4	11.9	9.2	8.0	8.5	10.0	9.2	9.6
17	19.7	18.7	19.2	12.5	11.2	11.8	8.2	7.0	7.9	9.5	8.0	8.6
18	19.3	18.6	18.9	12.6	11.2	12.1	8.5	7.9	8.2	8.0	6.1	7.0
19	20.5	19.0	19.6	12.8	11.5	12.0	8.5	7.5	8.1	6.1	4.9	5.2
20	20.2	19.9	20.0	13.5	12.3	12.8	8.1	5.8	7.0	5.8	4.3	5.0
21	20.0	19.6	19.8	14.0	12.9	13.4	6.1	5.1	5.6	5.6	4.8	5.3
22	19.8	18.7	19.2	14.4	12.9	13.6	6.8	5.3	6.0	5.0	4.3	4.6
23	18.8	18.0	18.3	14.3	13.3	14.0	8.3	6.3	7.1	4.6	3.0	3.8
24	18.1	16.7	17.4	14.6	13.6	14.1	7.7	7.0	7.5	3.3	2.4	2.8
25	17.0	16.5	16.8	15.2	14.0	14.6	7.1	6.2	6.8	3.5	2.3	2.6
26	16.9	16.1	16.5	14.1	12.9	13.4	6.3	5.3	5.9	3.8	2.4	3.1
27	17.2	15.7	16.4	12.9	12.3	12.5	5.3	4.3	5.0	3.6	2.9	3.3
28	17.5	16.4	16.9	13.2	12.2	12.8	4.9	3.8	4.2	2.9	2.2	2.5
29	17.4	16.7	17.0	12.8	12.2	12.4	4.3	3.0	3.8	3.1	1.8	2.2
30	18.6	17.0	17.7	12.6	11.4	12.1	5.3	4.1	4.6	3.1	2.4	2.8
31	20.0	18.1	18.8	---	---	---	6.1	4.5	5.3	3.2	2.7	2.9
MONTH	25.4	15.7	20.3	20.7	11.2	14.7	14.7	3.0	9.1	12.7	1.8	6.9
		FEBRUARY			MARCH			APRIL			MAY	
1	3.3	2.9	3.1	8.4	7.8	8.1	16.1	14.6	15.1	18.4	17.3	17.7
2	4.1	2.7	3.3	7.8	6.8	7.4	15.8	14.6	15.4	19.4	17.4	18.2
3	3.8	3.4	3.5	7.1	6.3	6.7	14.9	13.9	14.5	19.8	17.6	18.2
4	3.7	3.3	3.5	8.2	6.0	6.8	15.2	13.3	14.3	18.6	17.3	18.1
5	4.4	3.5	3.9	8.2	6.8	7.4	15.5	14.3	14.9	18.1	17.4	17.9
6	5.1	3.8	4.5	8.7	7.2	7.8	18.0	14.7	15.8	17.4	15.6	16.5
7	5.1	4.5	4.8	9.0	7.6	8.3	17.4	16.4	16.9	16.5	14.8	15.6
8	5.8	4.6	5.1	9.7	8.2	8.8	18.1	16.9	17.6	17.4	15.8	16.5
9	8.0	5.4	6.3	8.6	7.5	8.0	17.8	16.1	16.8	18.9	16.2	17.1
10	8.0	6.3	7.2	8.8	7.4	8.0	16.1	15.0	15.6	18.6	17.0	17.9
11	6.5	5.5	5.9	10.0	7.9	8.5	17.1	14.8	15.7	20.2	17.7	18.6
12	5.9	4.9	5.5	8.6	7.6	8.2	16.0	15.0	15.3	21.2	18.4	19.5
13	6.5	5.3	5.9	10.0	8.0	8.9	15.5	14.4	15.0	20.1	19.0	19.4
14	7.2	6.1	6.6	8.9	8.4	8.7	14.4	13.6	14.1	21.2	18.7	19.8
15	9.6	6.8	7.4	9.9	8.0	8.8	13.8	12.6	13.1	22.2	19.8	20.7
16	9.3	7.3	8.2	9.0	8.5	8.8	12.6	11.7	12.2	21.4	20.6	21.0
17	9.3	8.3	8.6	8.5	7.6	8.1	13.0	11.8	12.4	21.9	20.3	21.0
18	8.3	7.7	8.0	8.4	7.5	8.0	15.6	12.2	13.3	21.8	20.2	20.9
19	9.2	7.2	7.8	8.7	8.0	8.4	16.2	12.9	14.2	21.1	20.7	20.9
20	8.4	7.4	7.8	10.7	8.4	9.1	17.4	14.7	15.9	21.4	20.6	21.0
21	9.2	8.0	8.4	10.7	9.5	10	19.6	15.7	16.7	21.0	20.1	20.6
22	9.2	8.5	8.8	11.0	9.6	10.3	18.4	16.7	17.4	21.0	20.1	20.5
23	9.5	8.6	9.0	12.1	10.5	11.0	17.7	15.3	16.9	22.3	20.2	21.1
24	9.0	8.8	8.9	13.0	11.0	11.8	16.8	14.9	15.7	22.6	21.2	21.7
25	8.8	8.0	8.4	12.1	11.6	11.9	15.4	13.9	14.7	21.5	20.1	20.8
26	9.4	7.6	8.1	12.9	11.7	12.2	15.5	14.7	15.1	21.7	19.6	20.5
27	8.2	7.5	8.0	12.4	12.1	12.3	17.1	15.3	15.7	23.7	20.3	21.4
28	8.4	7.9	8.1	14.1	12.4	12.9	17.4	15.3	16.1	22.9	21.1	22.0
29	---	---	---	14.2	12.5	13.3	16.8	15.9	16.3	23.7	22.0	22.8
30	---	---	---	14.9	13.1	13.9	18.2	16.3	16.9	22.9	22.4	22.6
31	---	---	---	15.2	13.7	14.5	---	---	---	23.2	22.0	22.4
MONTH	9.6	2.7	6.6	15.2	6.0	9.6	19.6	11.7	15.3	23.7	14.8	19.8

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.1	21.1	21.7	29.4	26.7	27.6	29.0	28.5	28.8	30.6	27.8	29.0
2	21.1	20.7	20.9	29.4	27.7	28.0	30.7	28.5	29.3	31.1	28.7	29.6
3	22.6	20.8	21.5	28.5	27.6	28.0	30.8	29.0	29.7	30.4	28.8	29.3
4	22.6	21.7	22.1	29.2	27.6	28.3	32.5	29.6	30.2	28.8	27.9	28.3
5	25.1	21.5	23.1	29.2	27.8	28.4	31.6	29.3	30.0	27.9	26.9	27.3
6	25.6	22.8	24.1	30.3	27.9	28.9	30.6	29.4	29.9	27.0	26.0	26.4
7	26.7	24.0	24.9	31.7	29.2	29.9	30.2	29.5	29.9	26.3	25.8	26.1
8	26.4	24.5	25.5	29.6	28.2	29.0	29.6	28.8	29.3	26.3	25.5	25.9
9	26.9	25.3	26.2	31.1	28.7	29.4	29.7	28.8	29.1	27.0	25.5	26.0
10	26.8	25.3	26.0	32.0	28.5	29.6	31.4	28.6	29.2	26.1	25.0	25.5
11	26.2	24.9	25.5	30.9	29.2	29.9	31.9	28.4	29.5	---	---	---
12	26.8	25.1	25.9	30.8	29.4	29.9	31.7	29.1	30.0	---	---	---
13	27.8	26.0	26.8	29.8	28.2	29.0	31.5	29.4	30.3	---	---	---
14	29.2	26.1	27.2	29.0	27.6	28.2	31.2	29.8	30.3	---	---	---
15	30.5	27.1	28.5	29.1	27.8	28.3	32.4	29.7	30.6	---	---	---
16	30.0	28.7	29.1	30.6	28.2	29.1	31.7	30.5	30.9	---	---	---
17	29.0	27.8	28.2	30.0	28.7	29.3	31.0	29.9	30.3	---	---	---
18	28.2	27.4	27.8	30.4	28.8	29.5	30.8	29.4	29.8	---	---	---
19	27.4	26.7	27.0	30.5	29.0	29.8	31.1	29.4	30.1	---	---	---
20	26.7	25.4	26.0	30.8	29.2	30.0	32.0	29.5	30.6	28.1	26.1	26.9
21	26.4	24.8	25.5	33.0	29.3	30.2	33.0	29.9	31.1	27.4	26.2	26.6
22	27.1	24.7	25.8	31.3	29.1	30.2	31.7	30.3	31.0	26.9	25.7	26.3
23	27.3	25.8	26.3	31.5	29.8	30.3	31.2	30.2	30.7	28.5	26.0	26.7
24	27.5	25.7	26.4	31.0	29.3	30.1	30.3	29.1	29.7	27.6	26.5	27.0
25	26.6	26.1	26.3	31.0	28.9	29.9	29.1	28.1	28.6	27.1	26.0	26.5
26	26.6	25.9	26.2	32.1	29.5	30.4	28.6	27.2	28.0	26.8	25.6	26.3
27	28.2	26.1	27.0	33.2	30.1	31.1	28.2	27.2	27.5	26.7	26.0	26.3
28	27.4	26.8	27.1	32.8	30.5	31.3	28.3	27.1	27.6	26.4	25.3	25.9
29	27.1	26.3	26.7	31.1	29.7	30.3	28.3	27.4	27.8	27.6	25.4	25.9
30	29.2	25.8	26.8	30.2	29.2	29.7	29.4	27.5	28.3	25.8	24.9	25.3
31	---	---	---	29.7	28.9	29.2	29.0	28.0	28.5	---	---	---
MONTH	30.5	20.7	25.7	33.2	26.7	29.4	33.0	27.1	29.6	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.0	23.6	23.8	17.9	17.1	17.3	13.0	12.5	12.8	5.5	5.0	5.3
2	24.2	23.6	23.8	18.6	17.3	17.7	12.6	11.9	12.2	6.0	5.1	5.4
3	24.5	24.0	24.2	19.6	17.5	18.6	12.1	11.5	11.8	5.8	5.3	5.6
4	24.6	24.0	24.3	18.8	17.9	18.4	12.2	11.5	11.9	7.2	5.5	5.9
5	24.5	23.6	24.2	18.8	17.9	18.1	12.2	11.1	11.9	7.9	5.8	6.1
6	23.7	22.5	23.1	17.9	17.2	17.6	12.2	11.4	12.1	8.1	5.8	6.2
7	22.7	21.7	22.1	17.6	16.7	17.1	12.7	11.7	12.2	8.9	6.2	7.1
8	22.4	21.4	21.9	16.8	16.1	16.6	12.9	12.6	12.8	10.4	6.7	8.4
9	22.4	21.6	22.0	16.1	15.1	15.6	13.1	12.7	12.9	10.5	7.7	9.8
10	22.3	21.8	22.1	15.2	14.6	14.9	14.5	12.6	13.8	10.6	8.5	9.8
11	22.2	21.2	21.6	14.8	14.4	14.6	14.4	13.3	14.0	10.5	8.5	10
12	22.0	20.5	21.3	14.9	14.4	14.6	13.3	12.5	12.8	11.4	8.0	10.1
13	21.8	21.2	21.6	15.0	13.8	14.6	12.5	11.7	12.0	11.7	8.3	10.1
14	21.6	21.0	21.3	13.8	12.6	13.2	11.8	10.8	11.2	12.7	11.3	11.9
15	21.5	20.1	21.0	13.1	12.4	12.7	10.8	9.3	10.0	11.6	10.1	10.7
16	20.1	18.9	19.5	12.8	12.2	12.5	9.8	8.3	9.0	10.1	9.3	9.7
17	19.5	18.7	19.1	12.7	11.9	12.4	9.8	8.2	8.9	9.6	8.0	8.7
18	19.9	18.6	19.0	12.9	12.3	12.6	9.4	8.2	8.8	8.0	6.7	7.2
19	20.2	19.0	19.6	13.0	12.2	12.8	9.3	8.2	8.7	6.9	5.1	6.1
20	20.2	19.7	19.9	13.1	12.7	12.8	8.2	6.1	7.3	5.5	4.9	5.2
21	19.9	19.5	19.7	13.2	12.7	12.9	7.0	5.8	6.3	5.6	5.0	5.4
22	19.7	18.5	19.1	13.2	12.9	13.0	7.4	6.1	6.9	5.2	4.5	4.8
23	18.6	17.9	18.2	13.4	12.9	13.1	8.3	6.3	7.5	4.7	3.2	4.0
24	18.0	17.0	17.5	14.2	13.1	13.3	8.4	7.2	7.6	3.4	2.6	3.0
25	18.1	16.7	17.4	15.2	14.0	14.6	7.2	6.4	6.9	3.4	2.5	3.0
26	17.6	16.1	16.9	14.1	12.9	13.4	6.4	5.5	6.0	3.7	2.9	3.2
27	17.6	16.8	17.2	12.9	12.2	12.5	5.5	4.7	5.1	3.7	3.0	3.5
28	17.3	16.9	17.1	13.2	12.4	12.8	5.2	4.3	4.8	3.0	2.4	2.7
29	17.6	17.1	17.3	12.7	12.2	12.5	5.1	4.0	4.5	2.8	2.0	2.3
30	17.5	17.1	17.3	12.8	12.2	12.6	4.8	4.4	4.6	3.2	2.4	2.9
31	18.1	17.0	17.4	---	---	---	5.6	4.8	5.1	3.4	2.8	3.0
MONTH	24.6	16.1	20.3	19.6	11.9	14.5	14.5	4.0	9.4	12.7	2.0	6.4
		FEBRUARY			MARCH			APRIL			MAY	
1	3.4	3.1	3.2	8.5	7.9	8.2	15.5	14.0	14.8	18.0	17.3	17.7
2	3.8	3.1	3.4	7.9	6.9	7.5	15.8	14.3	15.3	19.3	17.6	18.1
3	3.7	3.2	3.5	7.2	6.4	6.8	15.1	14.1	14.7	18.4	17.7	18.0
4	3.8	3.4	3.7	7.5	6.4	7.0	15.1	13.6	14.3	18.5	17.4	18.0
5	4.2	3.7	3.9	8.1	7.0	7.4	15.2	14.2	14.6	18.1	17.4	17.9
6	4.4	4.0	4.1	8.8	7.3	7.8	15.2	14.4	14.8	17.4	15.7	16.5
7	4.3	4.0	4.1	8.8	7.8	8.2	17.1	14.6	15.6	16.0	14.8	15.4
8	4.7	4.1	4.4	9.7	8.2	8.8	16.8	16.0	16.5	17.2	15.8	16.3
9	5.1	4.5	4.7	8.5	7.9	8.2	17.6	16.2	16.8	18.5	16.1	16.7
10	7.4	4.6	5.9	8.9	7.7	8.2	16.2	15.0	15.5	18.3	17.1	17.7
11	6.6	5.6	6.0	9.4	8.2	8.5	15.7	15.2	15.5	19.5	17.7	18.1
12	6.0	5.2	5.6	8.8	7.9	8.5	15.6	15.0	15.3	20.7	17.9	18.7
13	6.2	5.6	5.8	9.2	8.7	8.9	15.4	14.4	14.9	19.9	18.1	19.3
14	6.9	5.9	6.2	9.1	8.8	8.9	14.4	13.6	14.1	19.5	18.9	19.0
15	7.5	6.2	6.7	9.7	8.3	9.0	13.8	12.6	13.1	20.6	18.6	19.7
16	8.7	6.3	7.6	9.6	8.6	9.1	12.6	11.5	12.1	21.2	18.6	20.3
17	9.0	8.3	8.6	8.6	7.8	8.3	12.7	11.7	11.9	21.8	19.1	20.5
18	8.3	7.9	8.1	8.7	7.5	8.0	13.0	11.7	12.3	21.5	20.1	20.7
19	7.9	7.3	7.5	8.9	8.2	8.6	12.9	11.7	12.1	21.2	20.8	21.0
20	7.7	7.4	7.5	9.0	8.7	8.9	12.9	11.8	12.1	21.4	20.6	21.0
21	9.2	7.5	8.3	10.0	8.9	9.4	15.4	12.0	12.8	21.0	20.1	20.6
22	9.0	8.6	8.8	10.9	9.2	10.1	17.8	12.2	14.6	20.8	20.0	20.5
23	9.6	8.7	9.1	12.3	10.6	11.2	17.3	12.7	15.6	21.3	20.3	20.7
24	9.1	8.9	9.0	12.7	11.4	12.0	16.9	15.0	15.7	21.6	20.4	21.3
25	8.9	8.2	8.5	12.3	11.7	12.0	15.5	13.9	14.7	21.4	20.1	20.8
26	8.2	7.9	8.1	12.8	11.8	12.1	15.5	14.8	15.1	20.5	19.7	20.0
27	8.6	8.0	8.2	12.6	12.3	12.5	16.1	15.3	15.6	21.1	19.8	20.1
28	8.4	7.9	8.2	14.2	12.4	13.0	16.6	15.3	15.8	22.5	20.0	21.3
29	---	---	---	13.9	12.6	13.3	16.7	15.8	16.2	23.2	21.9	22.3
30	---	---	---	14.3	13.4	13.6	18.3	15.7	16.9	22.9	22.0	22.5
31	---	---	---	15.4	13.5	14.4	---	---	---	22.5	20.3	21.4
MONTH	9.6	3.1	6.4	15.4	6.4	9.6	18.3	11.5	14.6	23.2	14.8	19.4

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	21.8	20.6	21.3	27.9	26.1	26.5	29.0	28.5	28.8	29.0	28.1	28.4
2	21.1	20.7	20.9	28.3	26.7	27.7	30.0	28.4	28.8	29.1	28.4	28.7
3	21.8	20.8	21.0	28.2	26.8	27.7	30.1	28.8	29.2	29.8	28.6	29.1
4	21.5	20.8	20.9	29.0	27.5	28.0	30.5	29.0	29.5	29.4	27.9	28.5
5	21.7	20.8	21.0	29.0	28.0	28.4	30.6	29.1	29.6	27.9	26.9	27.3
6	21.8	20.8	21.1	29.4	28.0	28.3	30.3	29.2	29.6	27.0	26.0	26.4
7	23.4	20.8	21.7	29.5	28.0	28.7	30.2	29.4	29.7	26.3	25.8	26.1
8	23.4	21.0	22.0	29.3	28.2	28.9	29.5	29.0	29.2	26.0	25.2	25.6
9	24.5	22.0	22.9	29.4	28.6	29.0	29.2	28.8	29.0	26.1	25.2	25.6
10	26.1	21.8	23.6	29.4	28.6	28.9	29.1	28.4	28.6	25.8	24.6	25.2
11	26.1	22.9	24.5	29.9	28.8	29.1	29.2	28.2	28.6	---	---	---
12	26.5	24.1	25.4	30.0	28.8	29.5	30.2	28.5	29.1	---	---	---
13	26.7	24.4	25.9	29.8	28.2	29.0	30.6	28.9	29.5	---	---	---
14	27.8	26.0	26.5	28.4	27.8	28.1	30.4	29.4	29.7	---	---	---
15	28.2	27.1	27.4	28.8	27.9	28.2	30.9	29.4	29.8	---	---	---
16	29.1	27.5	28.4	28.9	28.3	28.4	30.7	29.1	30.0	---	---	---
17	28.8	27.2	28.1	29.6	28.5	29.0	30.5	29.6	30.0	---	---	---
18	28.2	26.8	27.6	29.9	28.3	29.1	30.0	29.3	29.6	---	---	---
19	27.4	26.7	27.0	30.4	29.1	29.7	30.3	29.3	29.7	---	---	---
20	26.7	25.4	26.1	30.3	29.2	29.7	30.4	29.5	30.0	27.0	25.2	25.8
21	25.4	24.6	25.0	30.3	28.6	29.5	31.7	29.8	30.4	27.1	25.7	26.5
22	26.6	24.7	25.2	31.0	29.1	29.8	31.0	30.3	30.6	27.0	26.0	26.5
23	26.2	24.8	25.6	30.5	29.3	29.9	31.0	30.4	30.7	26.8	26.0	26.3
24	27.4	24.9	26.1	30.6	29.2	29.8	30.5	29.7	30.0	27.4	26.1	26.8
25	26.6	26.0	26.3	30.0	29.1	29.4	29.7	28.4	29.1	27.0	26.2	26.5
26	26.5	25.8	26.2	30.1	29.2	29.6	28.7	27.5	28.0	26.7	26.0	26.3
27	27.0	26.0	26.4	30.5	29.1	29.8	28.4	27.5	27.8	26.7	26.0	26.4
28	27.1	26.1	26.7	31.8	29.8	30.7	28.4	27.1	27.7	26.4	25.4	25.8
29	27.0	25.9	26.4	30.9	29.7	30.1	28.6	27.6	28.1	26.1	25.6	25.7
30	26.4	25.9	26.1	29.9	29.2	29.6	28.6	28.0	28.1	25.8	25.0	25.3
31	---	---	---	29.3	28.8	29.1	29.3	28.3	28.8	---	---	---
MONTH	29.1	20.6	24.8	31.8	26.1	29.0	31.7	27.1	29.3	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	6.5	7.2	9.8	8.2	9.0	10.2	9.3	9.6	11.7	10.7	11.2
2	8.4	6.5	7.1	10.1	8.1	9.1	9.8	9.3	9.6	11.3	10.5	10.8
3	9.4	6.3	7.7	9.7	7.8	8.5	10.1	9.4	9.7	11.9	10.7	11.2
4	9.5	7.7	8.3	9.1	7.3	8.0	10.3	9.7	10	11.9	10.9	11.4
5	8.7	7.9	8.3	8.8	7.6	8.0	10.7	10.1	10.3	12.0	10.9	11.4
6	8.9	7.6	8.2	9.1	7.9	8.5	10.7	9.9	10.2	11.5	9.7	10.9
7	8.5	7.4	7.9	9.3	8.3	8.8	10.6	9.2	10	10.5	9.6	10.1
8	9.4	7.1	8.0	8.7	8.4	8.5	10.2	9.0	9.8	10.8	9.6	10.1
9	9.3	7.3	8.2	8.9	8.3	8.6	10.0	9.3	9.7	10.4	9.5	9.8
10	9.4	7.7	8.4	8.7	7.8	8.3	9.4	8.7	9.0	10.1	9.5	9.8
11	9.5	7.9	8.5	9.1	7.8	8.6	9.4	8.6	9.0	10.2	9.4	9.8
12	9.4	8.1	8.9	9.1	8.6	8.9	9.6	8.9	9.1	10.6	9.3	9.8
13	9.4	7.8	8.6	9.1	8.6	8.9	9.7	8.8	9.2	10.2	8.8	9.6
14	8.4	7.0	7.9	9.7	8.9	9.2	9.6	9.0	9.3	9.2	8.1	8.8
15	8.3	7.5	7.8	10.0	9.3	9.7	9.8	9.1	9.4	9.2	8.3	8.7
16	8.7	7.1	7.9	10.4	9.9	10.1	10.4	9.2	9.8	9.6	8.8	9.1
17	9.2	6.6	8.3	10.8	10.2	10.4	10.8	9.6	10.0	10.0	8.9	9.5
18	9.6	8.1	8.6	11.0	10.3	10.6	10.4	9.4	9.9	---	---	---
19	9.3	6.8	8.4	11.4	10.5	10.8	10.7	9.4	10.0	---	---	---
20	8.7	7.8	8.3	11.3	10.0	10.8	10.3	9.6	9.9	---	---	---
21	8.7	7.7	8.1	11.1	9.2	10.5	10.3	9.5	9.9	---	---	---
22	8.5	7.7	8.0	11.0	9.3	10.2	10.0	9.4	9.7	---	---	---
23	8.8	7.7	8.3	10.5	9.1	10.1	9.7	9.0	9.4	---	---	---
24	9.3	8.2	8.6	10.1	9.0	9.7	9.7	8.8	9.1	---	---	---
25	9.5	8.4	9.0	9.7	8.6	9.0	9.3	8.8	9.1	---	---	---
26	10.5	8.8	9.4	9.5	8.9	9.1	9.8	9.1	9.5	---	---	---
27	10.8	8.8	10	9.9	9.3	9.5	10.1	9.3	9.7	12.2	11.8	12.0
28	10.4	8.9	9.8	9.8	9.2	9.5	11.1	9.8	10.3	12.3	11.9	12.2
29	10.7	8.1	9.8	10.0	9.2	9.7	11.6	10.5	11.1	12.6	12.2	12.4
30	10.3	9.1	9.7	10.3	9.8	10	11.0	10.5	10.8	12.5	12.1	12.3
31	10.1	8.9	9.4	---	---	---	11.5	10.4	10.8	12.2	12.0	12.1
MONTH	10.8	6.3	8.5	11.4	7.3	9.4	11.6	8.6	9.8	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	12.0	12.1	10.2	9.9	10.0	---	---	---	8.8	7.8	8.1
2	12.4	12.1	12.3	10.3	9.8	10.1	---	---	---	9.3	8.1	8.6
3	12.4	12.1	12.2	10.6	10.1	10.3	---	---	---	9.6	7.9	8.5
4	12.1	11.8	11.9	11.7	10.4	11.0	---	---	---	---	---	---
5	12.1	11.8	11.9	11.4	10.8	11.1	---	---	---	---	---	---
6	12.1	11.8	12.0	11.8	10.9	11.2	---	---	---	---	---	---
7	12.2	11.8	12.0	11.6	10.9	11.3	10.7	9.1	10.1	---	---	---
8	12.3	11.8	12.0	11.0	9.6	10.1	9.8	8.9	9.4	---	---	---
9	12.2	11.7	12.0	---	---	---	9.4	8.7	9.0	---	---	---
10	12.0	11.1	11.5	---	---	---	10.2	8.8	9.4	---	---	---
11	11.3	10.9	11.1	---	---	---	11.7	9.4	10.4	---	---	---
12	11.6	11.0	11.3	---	---	---	10.3	8.9	9.7	9.6	8.2	8.7
13	11.9	11.3	11.5	---	---	---	9.4	9.0	9.2	8.5	7.7	7.9
14	11.6	11.3	11.4	---	---	---	10.1	9.1	9.6	9.2	7.5	8.2
15	12.1	11.1	11.5	---	---	---	10.2	9.6	9.8	9.3	7.4	8.2
16	12.0	11.6	11.8	---	---	---	10.8	10.0	10.3	9.0	8.0	8.4
17	11.8	11.4	11.6	---	---	---	11.6	10.5	11.0	8.9	7.2	8.1
18	11.5	11.0	11.2	---	---	---	12.9	11.3	12.1	8.6	7.3	7.8
19	11.5	10.8	11.1	---	---	---	13.0	11.9	12.5	8.1	7.4	7.6
20	11.3	10.8	11.1	---	---	---	12.5	11.1	12.0	8.1	7.1	7.5
21	11.3	10.7	11.0	---	---	---	11.6	10.1	10.8	8.1	6.8	7.4
22	10.9	10.5	10.7	---	---	---	10.3	9.1	9.9	8.4	7.5	8.0
23	10.8	10.4	10.6	---	---	---	9.2	8.2	8.7	9.1	7.3	8.2
24	10.5	10.0	10.3	---	---	---	8.8	8.2	8.6	9.4	8.0	8.5
25	10.3	9.8	10.1	---	---	---	9.1	8.4	8.8	8.4	7.7	8.0
26	11.0	10.0	10.5	---	---	---	8.8	8.5	8.6	9.2	7.6	8.3
27	10.9	10.2	10.7	---	---	---	9.2	8.3	8.6	9.8	8.2	9.0
28	10.4	10.0	10.2	---	---	---	9.1	8.4	8.7	9.5	8.5	9.0
29	---	---	---	---	---	---	9.1	8.4	8.8	9.6	8.2	8.9
30	---	---	---	---	---	---	8.8	7.7	8.3	9.1	8.3	8.8
31	---	---	---	---	---	---	---	---	---	8.9	7.4	8.3
MONTH	12.4	9.8	11.3	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	7.2	7.8	10.4	7.6	8.6	---	---	---	9.3	5.6	7.1
2	7.8	6.9	7.4	9.5	7.3	8.0	---	---	---	9.1	6.6	7.8
3	9.5	7.2	8.1	8.4	7.2	7.8	---	---	---	8.2	6.8	7.3
4	10.1	8.2	9.1	9.4	6.8	7.8	11.2	7.2	8.9	7.2	6.4	6.8
5	10.9	7.4	9.4	7.8	5.8	7.0	10.5	6.5	8.2	7.1	6.1	6.6
6	10.5	7.7	9.2	8.5	5.3	7.2	8.5	6.5	7.3	7.6	6.5	7.0
7	10.0	8.0	8.7	9.9	6.8	8.2	7.6	5.6	6.5	7.9	6.7	7.1
8	9.2	7.4	8.3	8.1	4.8	6.4	7.0	5.0	5.6	8.0	6.6	7.2
9	8.8	7.0	8.1	10.6	5.5	7.4	6.6	4.8	5.6	8.2	6.4	7.2
10	8.1	5.8	7.3	10.0	5.2	7.3	9.7	4.6	6.2	7.1	6.5	6.8
11	---	---	---	10.9	6.6	8.3	---	---	---	---	---	---
12	---	---	---	9.3	6.2	7.9	---	---	---	---	---	---
13	---	---	---	7.9	4.7	6.2	---	---	---	---	---	---
14	---	---	---	8.2	4.5	6.2	---	---	---	---	---	---
15	---	---	---	9.8	6.0	7.5	---	---	---	---	---	---
16	8.8	7.3	7.9	12.5	7.6	9.4	---	---	---	---	---	---
17	8.5	6.5	7.3	9.6	7.9	8.7	---	---	---	---	---	---
18	8.1	6.3	7.6	8.7	6.6	7.9	8.3	5.8	6.7	---	---	---
19	7.4	5.6	6.6	9.4	6.6	7.9	9.6	5.4	7.3	---	---	---
20	7.3	6.5	6.9	9.0	6.5	7.6	10.4	6.4	7.7	10.6	6.8	8.4
21	8.4	6.7	7.5	9.9	6.3	7.8	10.2	6.7	8.4	10.0	7.2	8.0
22	8.6	6.4	7.6	8.8	5.8	7.3	9.5	6.4	7.8	8.7	6.6	7.8
23	8.8	7.1	7.8	9.9	6.0	7.7	8.1	5.8	7.2	11.1	7.2	8.5
24	8.5	6.6	7.4	9.5	6.2	8.0	8.1	6.0	6.8	8.7	6.8	7.9
25	7.9	6.3	7.0	9.6	6.5	7.9	7.4	5.4	6.4	8.2	6.3	7.2
26	7.6	6.3	6.9	9.9	5.9	7.9	8.3	6.2	7.1	8.1	6.1	7.1
27	8.8	6.3	7.6	10.1	6.3	8.3	7.4	5.7	6.6	7.6	6.4	7.0
28	8.6	7.1	8.1	8.9	6.5	7.5	7.7	5.7	6.5	8.3	6.3	7.0
29	8.0	7.1	7.6	---	---	---	7.5	5.9	6.7	9.1	6.0	7.2
30	9.3	6.2	7.6	---	---	---	8.4	5.9	7.1	7.2	6.3	6.8
31	---	---	---	---	---	---	7.8	5.5	6.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	4.2	6.7	7.6	5.5	6.2	9.4	8.8	9.1	12.2	10.0	10.8
2	7.5	6.4	6.8	8.3	5.0	6.5	10.0	9.3	9.6	11.8	10.0	10.8
3	8.0	5.2	6.5	8.5	4.8	6.9	10.2	9.6	9.9	12.2	9.7	10.5
4	8.1	4.9	6.7	7.6	4.3	6.0	10.2	9.1	9.7	11.6	9.8	10.2
5	8.6	4.8	7.4	8.5	7.5	7.8	10.3	8.9	9.4	11.3	9.8	10.1
6	8.7	6.9	7.8	8.9	7.7	8.1	10.2	8.5	8.9	10.9	9.6	10.2
7	8.0	6.2	7.2	8.8	7.6	8.3	10.0	8.3	8.9	10.6	9.0	9.9
8	7.8	4.8	6.8	8.7	8.2	8.5	9.6	8.5	9.1	11.0	9.8	10.2
9	8.1	4.4	6.2	9.0	8.3	8.6	9.8	7.8	9.0	10.7	8.8	10.0
10	9.0	5.9	7.6	9.1	8.4	8.7	9.5	8.4	9.1	10.5	9.6	10.3
11	9.1	4.3	7.9	9.1	8.5	8.8	9.6	8.8	9.2	10.6	9.1	10.1
12	9.2	6.6	8.0	8.8	7.8	8.4	9.6	8.7	9.2	10.6	9.0	10.0
13	8.5	5.7	6.7	9.0	8.3	8.7	9.8	8.8	9.3	10.5	8.8	9.6
14	8.6	6.0	7.5	9.4	8.6	9.0	9.7	9.2	9.4	9.7	8.6	9.1
15	8.2	5.1	7.0	9.6	8.9	9.3	10.2	9.3	9.7	9.3	8.6	9.0
16	8.8	7.2	8.0	9.5	8.8	9.1	10.5	9.2	9.9	9.3	9.1	9.2
17	9.3	8.0	8.4	9.7	8.0	8.6	10.7	8.8	9.9	9.7	9.2	9.4
18	9.2	4.9	8.0	9.0	6.9	8.1	10.9	9.0	10.0	10.4	9.5	9.8
19	8.8	4.8	6.9	9.0	7.1	7.8	10.8	9.2	10.2	11.3	9.7	10.3
20	8.2	5.5	6.9	8.2	7.1	7.8	10.9	10.3	10.6	10.9	10.2	10.5
21	8.3	4.7	7.4	9.2	7.6	7.9	11.1	10.0	10.7	10.9	10.3	10.7
22	8.1	7.2	7.7	9.4	7.5	7.9	11.0	9.6	10.3	11.0	10.5	10.7
23	8.7	7.4	8.1	9.0	7.4	7.9	11.0	9.3	10.1	11.1	10.7	10.9
24	8.6	7.1	8.1	8.8	7.1	8.1	10.7	9.6	10.4	11.2	10.4	10.9
25	9.0	7.0	7.8	9.1	7.8	8.7	10.9	10.3	10.5	11.6	10.3	10.9
26	8.6	5.9	7.3	9.1	8.4	8.8	10.9	10.5	10.7	12.2	8.5	10.5
27	8.1	5.8	6.6	9.5	8.9	9.2	11.2	10.7	10.9	11.6	8.6	11.0
28	7.1	6.1	6.7	9.4	8.8	9.2	11.5	10.4	11.0	12.3	10.5	11.1
29	8.3	5.5	6.6	9.6	8.9	9.3	12.1	10.6	11.5	12.6	9.4	11.2
30	7.5	5.1	6.1	9.6	8.6	9.0	11.8	11.2	11.6	12.6	10.1	12.2
31	8.3	5.4	6.2	---	---	---	12.4	10.2	11.5	12.5	10.9	12.2
MONTH	9.3	4.2	7.2	9.7	4.3	8.2	12.4	7.8	10.0	12.6	8.5	10.4
		FEBRUARY			MARCH			APRIL			MAY	
1	12.5	12.1	12.3	---	---	---	10.1	7.8	9.0	8.2	7.7	8.0
2	12.8	11.8	12.2	---	---	---	9.5	8.0	8.9	9.0	7.3	8.1
3	12.4	11.6	12.1	---	---	---	9.4	8.9	9.2	8.7	7.7	8.2
4	12.4	11.6	12.1	---	---	---	9.9	8.5	9.1	8.4	8.0	8.2
5	12.2	9.8	11.6	---	---	---	9.6	7.3	8.5	8.2	7.8	8.1
6	12.3	9.2	11.1	---	---	---	9.2	6.0	7.8	8.4	8.0	8.2
7	11.6	8.3	10.8	---	---	---	9.1	5.6	7.8	8.9	8.0	8.4
8	11.8	8.5	10.7	---	---	---	8.3	7.1	7.8	9.8	7.7	8.9
9	11.7	7.8	9.5	---	---	---	8.5	7.6	8.4	10.3	6.6	8.7
10	11.8	8.8	10.8	11.0	9.4	10.4	9.3	7.9	8.5	9.8	8.2	8.9
11	11.4	9.2	10.4	11.1	9.0	10.2	9.4	7.2	8.2	9.2	7.5	8.5
12	10.9	7.9	9.7	10.7	10.0	10.5	9.4	6.4	8.2	9.2	4.5	7.8
13	---	---	---	10.6	10.0	10.3	8.9	8.4	8.8	8.0	5.2	7.6
14	---	---	---	10.6	10.2	10.4	9.6	8.7	9.1	8.2	5.0	7.3
15	---	---	---	11.3	10.3	10.6	9.7	9.3	9.5	8.5	3.4	6.8
16	---	---	---	10.8	9.7	10.5	10.3	9.6	9.9	8.9	2.9	7.0
17	---	---	---	10.5	10.3	10.4	10.9	9.5	10.1	9.0	2.6	6.9
18	---	---	---	10.7	10.3	10.5	11.2	8.5	10	8.6	7.0	7.8
19	---	---	---	11.0	10.5	10.8	10.9	8.1	9.2	8.0	6.6	7.5
20	---	---	---	11.2	10.5	10.8	10.8	7.2	8.4	8.1	7.3	7.6
21	---	---	---	11.1	9.7	10.5	10.3	7.3	8.2	8.3	7.0	7.6
22	---	---	---	10.9	9.8	10.5	9.6	7.2	8.3	8.2	7.0	7.8
23	---	---	---	10.6	10.1	10.3	8.8	6.9	8.1	8.4	5.9	7.4
24	---	---	---	10.3	8.8	10.0	8.9	8.1	8.6	8.6	4.5	7.6
25	---	---	---	10.2	9.7	10	9.1	8.3	8.8	8.2	7.7	8.0
26	---	---	---	10.3	9.7	10.0	8.8	7.7	8.5	8.4	7.1	7.7
27	---	---	---	10.2	9.5	9.9	8.9	7.8	8.5	8.0	5.7	6.8
28	---	---	---	9.9	8.8	9.7	8.8	8.2	8.6	8.9	4.9	7.7
29	---	---	---	9.9	9.5	9.6	9.0	6.6	8.5	9.0	6.6	8.0
30	---	---	---	9.9	8.7	9.3	8.7	5.1	8.0	8.8	5.9	8.1
31	---	---	---	10.0	8.7	9.5	---	---	---	8.0	2.8	5.6
MONTH	---	---	---	---	---	---	11.2	5.1	8.7	10.3	2.6	7.8

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	2.5	5.7	8.9	1.7	5.4	7.4	5.1	5.9	7.1	4.9	5.7
2	7.6	6.8	7.2	8.7	2.2	7.1	9.1	5.7	6.8	7.4	4.2	6.0
3	7.9	4.5	6.4	8.1	3.1	6.7	8.6	5.3	7.0	7.3	2.8	6.0
4	7.3	4.0	5.2	8.2	4.7	7.1	9.5	3.2	7.0	7.0	2.2	5.8
5	7.7	3.4	4.8	7.9	5.8	7.0	9.0	4.5	6.8	6.8	5.8	6.4
6	6.1	3.1	4.3	7.6	4.5	6.0	7.8	2.6	5.7	7.0	6.2	6.5
7	6.8	1.6	3.7	7.4	2.6	5.0	7.2	2.1	5.5	7.2	6.1	6.6
8	5.3	1.7	3.0	7.8	4.7	6.2	6.9	4.3	5.4	7.8	6.0	6.8
9	5.5	1.5	3.2	6.8	1.4	5.4	6.1	3.7	4.8	8.0	6.5	7.1
10	6.8	0.3	3.0	6.2	1.2	4.5	7.2	2.5	4.8	7.3	6.7	7.0
11	6.6	1.2	3.9	8.0	0.8	4.5	8.6	0.1	4.6	---	---	---
12	6.4	1.8	5.0	7.8	0.8	5.9	7.9	0.3	5.1	---	---	---
13	7.0	1.0	5.0	7.7	1.2	5.2	8.1	0.3	4.9	---	---	---
14	7.2	1.8	5.7	6.3	3.3	4.5	7.1	2.3	4.9	---	---	---
15	7.2	4.2	6.1	8.7	5.0	6.3	7.9	4.5	5.7	---	---	---
16	7.7	4.3	6.1	7.8	0.2	5.0	7.4	0.2	4.4	---	---	---
17	7.2	2.2	6.1	8.3	1.0	6.7	6.8	1.2	5.7	---	---	---
18	7.9	0.7	4.8	7.9	0.8	6.2	7.3	5.0	6.3	---	---	---
19	7.6	4.2	6.6	8.2	4.4	6.7	8.2	4.8	6.1	---	---	---
20	7.6	6.6	7.2	7.2	4.4	6.3	8.0	5.7	6.7	8.0	1.3	4.0
21	7.3	5.8	6.8	7.1	0.1	5.7	8.9	4.7	6.6	9.0	1.1	5.5
22	8.1	4.0	6.6	7.5	4.2	5.9	8.4	3.1	5.8	8.0	1.1	5.8
23	7.7	2.2	5.7	7.3	1.8	5.1	7.3	4.3	6.1	7.2	1.6	5.5
24	8.1	2.3	6.3	7.7	0.1	5.2	7.5	1.2	5.4	7.9	1.6	5.8
25	7.8	4.2	6.7	6.9	4.2	5.8	7.3	0.6	5.0	7.8	3.3	6.4
26	7.6	6.4	6.8	6.7	0.8	5.6	7.7	6.0	6.5	7.2	6.1	6.5
27	7.7	4.7	6.4	7.4	0.8	4.2	7.1	5.0	6.1	7.6	6.0	6.8
28	7.7	3.6	6.1	8.0	1.6	5.8	6.8	5.0	5.7	8.3	6.3	6.9
29	7.5	3.2	5.3	6.3	2.8	5.2	6.9	5.0	5.9	8.0	5.7	6.4
30	6.6	3.9	5.7	6.4	1.3	5.5	7.3	4.2	5.8	---	---	---
31	---	---	---	6.4	1.3	5.4	7.6	5.3	6.4	---	---	---
MONTH	8.1	0.3	5.5	8.9	0.1	5.7	9.5	0.1	5.8	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	100	77	86	108	87	98	95	88	90	93	86	90
2	101	77	85	111	87	99	92	86	90	95	85	89
3	115	75	92	106	84	92	93	87	90	100	88	92
4	116	92	100	99	78	86	94	88	91	101	90	96
5	104	93	99	94	81	86	96	91	93	105	95	100
6	104	89	96	96	83	89	96	91	93	100	85	94
7	99	86	91	97	86	91	98	87	93	93	85	89
8	108	81	92	90	85	88	98	85	94	97	85	89
9	108	83	93	90	84	87	96	89	93	93	85	87
10	109	88	97	87	77	82	91	83	87	92	85	88
11	109	90	96	90	77	85	91	84	87	92	84	88
12	106	90	100	90	84	88	---	---	---	97	85	89
13	106	88	97	90	85	88	90	82	86	94	82	88
14	95	79	89	92	85	88	87	82	84	86	74	82
15	92	84	87	95	88	91	86	81	83	83	75	79
16	95	78	86	96	92	94	88	79	84	85	77	80
17	101	71	90	101	93	97	89	81	85	85	77	81
18	104	87	93	103	96	99	88	80	84	---	---	---
19	103	74	92	106	97	100	91	80	85	---	---	---
20	96	86	91	108	94	102	85	78	82	---	---	---
21	96	84	89	107	87	101	82	75	79	---	---	---
22	92	84	87	107	89	99	81	75	78	---	---	---
23	94	83	89	102	87	98	82	76	78	---	---	---
24	97	86	90	99	87	94	81	73	76	---	---	---
25	98	87	93	95	85	89	76	72	74	---	---	---
26	108	90	97	91	85	88	78	74	76	---	---	---
27	112	91	102	93	87	90	80	73	76	92	89	90
28	109	92	102	92	87	90	85	75	79	91	88	89
29	111	85	102	95	86	91	87	80	85	93	88	90
30	110	95	103	96	90	93	86	81	84	92	90	91
31	110	95	102	---	---	---	92	81	86	91	89	90
MONTH	116	71	94	111	77	92	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	92	89	91	87	84	85	---	---	---	94	82	86
2	95	90	92	86	82	84	---	---	---	100	85	91
3	94	91	92	88	83	85	---	---	---	104	83	90
4	91	89	90	98	84	91	---	---	---	---	---	---
5	93	89	91	97	89	93	---	---	---	---	---	---
6	95	90	93	100	91	95	---	---	---	---	---	---
7	96	92	94	101	93	96	111	94	104	---	---	---
8	97	92	95	94	82	87	104	93	99	---	---	---
9	100	94	97	---	---	---	99	89	93	---	---	---
10	100	90	95	---	---	---	104	88	95	---	---	---
11	91	87	89	---	---	---	122	94	105	---	---	---
12	93	86	90	---	---	---	105	89	97	107	88	95
13	97	90	92	---	---	---	94	89	92	94	84	86
14	95	91	93	---	---	---	99	89	93	104	81	90
15	103	91	96	---	---	---	96	91	94	107	81	92
16	103	97	100	---	---	---	102	92	96	102	89	94
17	102	97	99	---	---	---	110	97	103	102	80	91
18	98	93	95	---	---	---	126	107	116	98	81	88
19	99	90	93	---	---	---	131	113	123	91	83	85
20	96	90	94	---	---	---	126	114	121	92	80	84
21	96	92	94	---	---	---	126	103	112	91	75	83
22	95	91	92	---	---	---	108	96	103	94	84	89
23	95	89	92	---	---	---	97	83	90	105	81	92
24	91	86	89	---	---	---	90	82	86	108	91	97
25	88	84	86	---	---	---	91	82	87	94	86	90
26	94	84	89	---	---	---	88	84	86	104	83	93
27	93	86	90	---	---	---	96	83	87	113	91	102
28	89	85	87	---	---	---	95	84	89	111	96	103
29	---	---	---	---	---	---	94	85	90	113	94	104
30	---	---	---	---	---	---	90	80	86	106	96	102
31	---	---	---	---	---	---	---	---	---	104	85	95
MONTH	103	84	92	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	92	82	89	133	96	110	---	---	---	124	72	92
2	88	77	83	123	93	103	---	---	---	121	86	103
3	110	81	92	109	92	100	---	---	---	110	89	96
4	116	95	105	121	87	101	151	95	119	93	82	87
5	127	84	110	102	75	90	140	86	108	90	77	84
6	126	90	110	113	68	94	114	85	97	95	81	87
7	125	96	105	132	89	109	101	74	87	98	83	88
8	114	91	102	106	62	84	92	65	74	99	81	88
9	111	86	101	140	71	97	87	63	73	103	78	89
10	102	71	90	136	67	97	130	60	82	88	80	83
11	---	---	---	146	86	111	---	---	---	---	---	---
12	---	---	---	125	81	104	---	---	---	---	---	---
13	---	---	---	105	61	80	---	---	---	---	---	---
14	---	---	---	107	57	80	---	---	---	---	---	---
15	---	---	---	130	77	97	---	---	---	---	---	---
16	117	95	103	166	98	123	---	---	---	---	---	---
17	111	83	94	127	103	114	---	---	---	---	---	---
18	104	80	97	116	86	104	112	76	89	---	---	---
19	94	70	84	126	86	105	128	71	98	---	---	---
20	90	81	86	121	85	101	140	84	103	139	89	110
21	104	81	91	133	83	104	139	89	113	130	93	103
22	108	77	94	119	76	98	130	85	105	112	82	98
23	111	88	97	133	79	103	109	78	97	145	89	107
24	108	81	92	128	81	107	108	80	90	111	84	99
25	99	78	87	129	85	104	96	70	83	103	77	89
26	95	78	85	134	78	106	108	78	91	99	72	86
27	113	78	95	140	84	112	95	72	83	92	75	84
28	109	89	102	124	87	102	99	72	83	100	72	83
29	101	88	95	---	---	---	97	75	86	116	73	89
30	122	76	95	---	---	---	109	75	91	88	77	83
31	---	---	---	---	---	---	102	71	87	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	95	50	79	80	57	64	89	83	86	96	79	86
2	89	76	81	89	52	68	94	86	90	93	79	86
3	96	62	78	93	51	74	94	89	91	97	77	84
4	98	58	80	82	46	64	94	85	90	92	78	82
5	103	57	88	90	79	82	94	83	87	95	79	82
6	102	81	91	94	80	86	94	79	83	92	78	83
7	92	71	83	92	80	87	94	78	83	92	76	82
8	89	55	78	90	84	87	91	80	86	98	81	87
9	93	51	71	91	84	87	93	74	85	95	76	89
10	104	68	88	90	83	86	91	79	88	95	84	91
11	104	49	90	90	83	87	93	86	89	95	80	90
12	104	75	91	87	77	83	90	82	87	95	77	89
13	96	65	77	89	82	85	91	82	87	95	76	86
14	97	68	84	89	83	86	89	84	86	90	79	85
15	92	58	78	91	85	88	89	84	86	84	79	81
16	96	78	88	89	83	86	91	81	86	83	79	81
17	102	86	91	90	75	81	91	77	85	83	79	81
18	100	54	86	84	65	77	93	79	86	85	79	82
19	97	53	75	84	68	74	92	80	88	90	79	83
20	90	60	76	78	68	74	91	85	88	86	81	83
21	91	52	82	88	72	75	89	83	86	87	82	85
22	88	78	83	90	71	75	89	80	84	86	82	84
23	93	79	86	86	71	75	89	78	84	86	82	84
24	89	75	85	85	68	77	90	82	87	83	78	81
25	93	74	81	91	76	85	90	85	86	85	78	81
26	88	62	76	87	81	84	88	85	86	91	64	79
27	84	61	68	89	84	86	89	84	86	88	65	83
28	74	64	70	90	83	87	89	82	86	90	77	82
29	87	58	69	91	84	87	93	83	89	92	69	82
30	78	53	64	90	81	85	92	87	90	94	75	90
31	88	57	65	---	---	---	98	80	91	94	81	91
MONTH	104	49	80	94	46	81	98	74	87	98	64	84
		FEBRUARY			MARCH			APRIL			MAY	
1	94	90	92	---	---	---	101	76	89	87	81	84
2	96	89	92	---	---	---	96	78	89	98	77	85
3	94	88	91	---	---	---	93	87	90	93	81	86
4	94	88	91	---	---	---	99	82	90	90	85	87
5	94	75	88	---	---	---	95	71	84	87	82	85
6	94	70	85	---	---	---	92	59	78	86	82	84
7	89	64	83	---	---	---	95	55	79	90	81	84
8	92	66	83	---	---	---	86	72	80	102	78	91
9	91	61	74	---	---	---	89	78	86	110	67	90
10	98	68	87	95	80	88	94	79	86	104	86	93
11	92	74	83	97	77	87	94	72	83	100	79	90
12	87	63	77	91	85	89	94	64	82	103	48	84
13	---	---	---	92	86	89	89	83	87	88	55	82
14	---	---	---	92	88	90	94	85	89	89	54	79
15	---	---	---	98	88	92	92	88	90	95	37	75
16	---	---	---	95	84	91	97	90	92	101	31	78
17	---	---	---	89	88	89	103	88	94	103	28	77
18	---	---	---	92	86	89	106	79	93	98	78	87
19	---	---	---	95	89	92	103	75	86	90	74	84
20	---	---	---	97	91	93	102	67	78	92	82	86
21	---	---	---	98	84	92	103	68	78	93	77	85
22	---	---	---	99	86	93	101	68	82	92	78	87
23	---	---	---	97	92	94	92	65	82	94	66	83
24	---	---	---	97	81	93	90	81	86	98	50	86
25	---	---	---	95	90	93	91	82	87	93	86	89
26	---	---	---	98	90	94	88	77	84	93	78	85
27	---	---	---	96	89	93	91	78	85	90	63	75
28	---	---	---	96	83	92	91	82	87	103	54	87
29	---	---	---	96	90	92	92	67	86	106	76	93
30	---	---	---	97	83	90	89	51	83	103	68	94
31	---	---	---	100	84	93	---	---	---	93	31	64
MONTH	---	---	---	---	---	---	106	51	86	110	28	84

0208455155 PAMLICO RIVER AT LIGHT 3—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	87	28	64	112	21	68	96	66	77	93	63	74
2	86	76	81	112	28	91	121	74	88	96	54	77
3	90	50	72	104	39	85	114	70	92	97	36	79
4	83	45	58	107	60	91	127	42	92	91	29	74
5	88	38	55	102	75	90	120	59	90	86	74	80
6	69	35	48	100	58	78	104	34	75	88	77	82
7	80	18	42	97	33	65	95	28	73	90	76	81
8	62	19	34	102	60	81	91	56	71	96	74	84
9	66	17	38	89	18	70	80	48	62	99	79	88
10	84	3	36	81	16	59	94	32	62	90	82	86
11	82	14	47	106	10	59	112	1	60	---	---	---
12	80	21	61	103	10	78	105	4	67	---	---	---
13	88	12	62	102	16	68	109	4	65	---	---	---
14	92	22	71	81	42	58	95	30	64	---	---	---
15	92	53	77	116	65	82	107	59	75	---	---	---
16	100	55	78	101	3	65	99	3	58	---	---	---
17	93	28	78	109	13	87	91	16	76	---	---	---
18	101	9	61	105	10	81	97	66	83	---	---	---
19	96	53	83	109	58	88	109	63	81	---	---	---
20	94	82	89	96	58	83	107	76	90	106	17	53
21	89	70	83	94	1	75	122	62	88	120	15	72
22	101	48	80	101	56	78	113	41	77	106	14	76
23	96	27	70	98	24	68	98	57	82	94	22	72
24	101	28	79	103	1	69	100	16	72	106	22	77
25	98	52	84	92	55	76	95	8	65	104	44	85
26	95	79	85	89	10	74	100	76	83	95	80	85
27	97	58	80	99	10	56	92	64	78	100	78	90
28	97	45	77	109	21	78	88	63	73	109	82	90
29	94	40	66	84	37	69	89	64	76	99	70	79
30	82	48	70	85	17	72	94	54	75	---	---	---
31	---	---	---	84	17	71	100	68	83	---	---	---
MONTH	101	3	67	116	1	75	127	1	76	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18

LOCATION.--Lat 35°31'05", long 76°29'47", Hyde County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 18.

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): May 2002 to current year.
pH (TOP AND BOTTOM): May 2002 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): May 2002 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): May 2002 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 2002 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from May 2002 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on September 15, 2003 to prevent possible destruction of the equipment during Hurricane Isabel. It was reinstalled on September 21, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Top constituents were monitored at 8 ft above the streambed and bottom constituents, 2 ft above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	18.5, October 11, 2002	0.3, August 17, 23, 2003
SALINITY (BOTTOM), ppt	20.5 October 25, 26, 2002	0.3, August 17, 23, 2003
pH (TOP), standard units	8.6, April 20, 2005	5.5, August 23, 2003
pH (BOTTOM), standard units	8.2, on several days during the period	5.5, August 23, 2003
WATER TEMPERATURE (TOP), °C	32.6, July 9, 2004	0.2, January 25, 2003
WATER TEMPERATURE (BOTTOM), °C	31.2, July 20, 2005	0.4, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	13.6, February 9, 2003	<1.0, July 22, 26, 27, 2004, August 5, 2005
DISSOLVED OXYGEN (BOTTOM), mg/L	13.1, January 25, 2003	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	11.2, November 25	2.0, July 22
SALINITY (BOTTOM), ppt	13.3, February 9, 10	2.8, July 22
pH (TOP), standard units	8.6, April 20	6.6, August 4, 10
pH (BOTTOM), standard units	7.9, on several days during the year	6.5, May 15
WATER TEMPERATURE (TOP), °C	32.2, August 13	1.6, January 29
WATER TEMPERATURE (BOTTOM), °C	31.2, July 20	1.3, January 25
DISSOLVED OXYGEN (TOP), mg/L	13.3, April 20	0.3, August 5
DISSOLVED OXYGEN (BOTTOM), mg/L	12.4, January 28, 29, 30, 31	0.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	136, April 20	4, August 5
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	102, August 31	0, on many days during the year

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.0	9.9	10	10.4	9.9	10.1	10.6	10.2	10.4	9.3	7.6	8.6
2	10	9.9	9.9	10.4	10.0	10.1	10.5	10.2	10.4	10.0	8.1	8.9
3	10	9.9	9.9	10.2	10	10.0	10.6	10.2	10.4	10.4	9.1	9.7
4	10	9.8	9.9	10.4	10.1	10.2	10.6	10.2	10.3	10	8.5	9.0
5	9.9	9.8	9.9	10.3	10.0	10.2	10.4	10.1	10.2	8.7	8.2	8.4
6	9.9	9.7	9.8	10.3	10.2	10.2	10.3	10.1	10.2	8.6	8.5	8.5
7	9.8	9.8	9.8	10.3	10	10.1	10.3	10.2	10.2	8.5	8.1	8.4
8	9.8	9.7	9.8	10.2	10.1	10.1	10.3	9.9	10.1	8.6	8.2	8.5
9	9.8	9.6	9.8	10.2	9.9	10.0	10.3	9.9	10.1	8.5	8.1	8.3
10	9.8	9.3	9.7	10.2	9.8	10.1	10.3	9.8	10.0	8.5	7.8	8.4
11	9.6	9.4	9.5	10.3	10.0	10.1	9.8	9.5	9.7	8.6	8.3	8.4
12	9.7	9.1	9.6	10.2	10.1	10.2	9.7	9.5	9.6	9.3	8.5	8.6
13	9.8	9.5	9.6	10.2	9.7	10	9.8	9.2	9.5	10.5	8.6	9.3
14	9.7	9.7	9.7	10.3	9.7	10	9.6	6.8	8.6	10.4	9.2	9.7
15	9.7	9.4	9.6	10.0	9.9	10.0	7.6	6.2	6.7	9.9	8.6	9.5
16	9.7	9.3	9.5	10.0	9.8	10	9.2	6.1	7.9	9.5	7.3	8.5
17	9.7	9.0	9.5	10.1	9.8	10.0	8.8	6.8	7.8	8.0	7.3	7.5
18	9.7	9.5	9.6	10.3	9.8	10.0	9.1	7.6	8.1	8.1	7.7	7.9
19	9.7	9.1	9.6	10.1	9.9	10	9.5	8.2	8.7	8.3	7.5	7.8
20	9.6	9.3	9.5	10.2	9.8	10.0	8.9	8.1	8.6	8.4	7.9	8.2
21	9.5	9.1	9.2	10.4	9.8	10.1	8.8	8.4	8.6	8.3	7.7	8.0
22	9.4	9.2	9.3	10.6	10	10.1	8.6	8.3	8.5	8.3	7.9	8.1
23	9.8	9.3	9.5	10.5	10.0	10.2	8.6	8.3	8.5	8.4	8.0	8.2
24	9.7	9.4	9.6	11.1	10.1	10.6	8.8	8.1	8.5	8.4	7.5	8.2
25	9.9	9.5	9.7	11.2	10.4	10.8	8.1	7.4	7.7	8.2	7.8	8.0
26	10	9.5	9.8	11.0	10.6	10.8	8.3	7.0	7.6	8.3	8.0	8.1
27	9.9	9.7	9.8	10.7	10.6	10.7	7.8	7.0	7.5	8.4	8.0	8.2
28	10.3	9.7	9.9	10.7	10.6	10.7	8.0	7.3	7.5	8.7	8.1	8.5
29	10.2	10	10.0	10.6	10.3	10.5	7.6	7.3	7.4	8.5	8.0	8.2
30	10.2	10	10.1	10.6	10.3	10.5	7.8	7.5	7.6	8.8	8.1	8.3
31	10.2	9.8	10.0	---	---	---	8.5	7.5	7.8	8.4	8.0	8.2
MONTH	10.3	9.0	9.7	11.2	9.7	10.2	10.6	6.1	8.9	10.5	7.3	8.5
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.1	8.2	10.4	9.8	10.2	8.9	8.3	8.7	5.6	5.3	5.4
2	8.6	8.1	8.4	10.2	9.7	9.9	9.0	8.1	8.7	5.5	5.4	5.5
3	8.8	8.5	8.6	10.2	9.9	10.0	8.3	6.7	7.5	5.7	5.3	5.5
4	8.6	8.1	8.4	10.1	9.2	9.9	7.9	7.0	7.5	6.0	5.6	5.8
5	9.2	8.3	8.7	10	9.4	9.8	7.7	6.6	7.2	6.1	5.6	5.9
6	9.1	8.8	8.9	9.6	8.5	9.1	7.2	6.7	7.0	6.3	4.7	5.8
7	9.7	8.9	9.5	9.4	9.0	9.1	7.3	6.8	7.0	5.3	4.3	5.0
8	11.0	9.4	10.1	9.4	8.4	8.9	7.1	6.4	6.8	5.3	4.1	4.5
9	11.1	9.8	10.7	9.3	8.9	9.1	6.8	6.2	6.5	5.5	3.5	4.5
10	10.2	9.6	9.8	9.3	9.1	9.2	6.7	5.3	5.8	5.4	3.8	4.6
11	10	9.7	9.9	9.5	8.8	9.2	6.5	5.6	6.2	5.3	4.4	4.8
12	10.0	9.8	9.9	9.1	8.7	8.9	6.5	6.1	6.3	5.0	4.3	4.5
13	10.1	9.8	9.9	9.2	8.5	8.9	6.7	6.3	6.5	4.8	4.5	4.6
14	10.3	10	10.2	9.3	8.3	8.9	6.8	6.4	6.6	4.8	4.4	4.6
15	10.3	9.9	10.2	9.2	8.5	8.7	6.8	6.2	6.6	4.7	4.4	4.5
16	10.2	9.8	10.0	9.5	8.6	9.0	6.7	6.4	6.6	4.6	4.4	4.5
17	10.3	9.7	10	9.6	9.2	9.4	6.5	5.9	6.2	5.1	4.5	4.8
18	10	9.6	9.9	9.4	8.8	9.2	6.2	5.9	6.1	4.9	4.8	4.9
19	10.2	9.4	9.8	9.3	8.9	9.1	6.2	6.0	6.1	5.1	4.8	5.0
20	10	9.5	9.7	9.1	8.6	8.9	6.2	6.0	6.1	5.2	4.7	5.0
21	10.0	9.6	9.8	9.0	8.7	8.8	6.1	5.7	5.9	5.1	4.7	4.9
22	10.0	9.7	9.8	9.2	8.6	9.0	6.2	5.4	6.0	5.0	4.8	4.9
23	10.2	9.9	10.0	9.3	9.1	9.3	5.8	5.4	5.6	4.8	4.7	4.8
24	10.3	10	10.2	9.2	8.2	8.7	6.0	5.7	5.8	5.0	4.7	4.8
25	10.2	9.7	10.0	9.0	8.5	8.7	6.0	5.6	5.7	5.0	4.7	4.8
26	10.2	9.8	10	8.9	8.6	8.7	5.9	5.6	5.8	---	---	---
27	10.6	10	10.2	8.8	8.7	8.8	5.9	5.7	5.8	---	---	---
28	10.5	10.2	10.3	9.1	8.7	8.9	5.9	5.4	5.7	4.8	4.7	4.7
29	---	---	---	8.8	8.3	8.6	6.0	5.5	5.7	4.9	4.6	4.8
30	---	---	---	8.7	8.5	8.6	5.9	4.9	5.5	4.9	4.8	4.8
31	---	---	---	9.0	8.3	8.7	---	---	---	5.1	4.8	4.9
MONTH	11.1	8.1	9.7	10.4	8.2	9.1	9.0	4.9	6.5	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	5.2	5.0	5.1	5.5	5.4	5.5	4.4	3.6	4.0	7.2	7.0	7.1
2	5.9	5.2	5.6	5.6	5.2	5.5	4.3	3.5	3.7	7.3	7.1	7.2
3	5.5	5.2	5.3	5.3	4.8	5.0	5.1	3.0	3.8	7.4	7.2	7.3
4	5.4	5.1	5.3	5.2	4.9	5.0	6.4	3.0	4.0	7.5	7.3	7.4
5	5.6	5.0	5.3	5.1	4.8	5.0	6.7	4.9	6.1	7.5	7.4	7.5
6	5.4	5.1	5.2	5.0	4.7	4.9	6.7	4.8	5.5	8.0	7.5	7.8
7	5.2	4.7	5.0	5.1	4.7	4.9	5.4	4.4	4.9	8.1	7.8	7.9
8	5.3	4.7	5.0	5.1	4.2	4.7	5.7	5.0	5.4	8.1	7.9	8.0
9	5.5	5.0	5.3	4.7	4.2	4.5	6.0	5.0	5.2	8.4	8.0	8.2
10	5.6	5.1	5.4	4.6	4.4	4.5	5.3	4.4	4.9	8.6	8.4	8.5
11	5.4	5.0	5.2	4.7	4.3	4.5	4.9	4.6	4.7	---	---	---
12	5.5	5.2	5.4	4.6	4.3	4.4	4.7	4.6	4.7	---	---	---
13	5.4	4.9	5.3	4.6	4.3	4.5	4.8	4.7	4.7	---	---	---
14	4.9	4.6	4.8	4.5	4.1	4.3	4.8	4.7	4.7	---	---	---
15	5.2	4.4	4.9	4.3	4.1	4.2	4.9	4.7	4.8	---	---	---
16	5.0	3.5	4.6	4.2	3.5	3.9	4.9	4.8	4.8	---	---	---
17	5.1	4.2	4.5	4.2	3.1	3.5	4.9	4.4	4.7	---	---	---
18	5.0	4.0	4.6	3.7	3.2	3.3	4.9	4.5	4.7	---	---	---
19	5.3	4.8	5.1	3.8	2.9	3.4	5.1	4.8	4.9	---	---	---
20	5.3	5.0	5.1	3.8	2.6	3.4	5.4	4.8	4.9	9.1	9.0	9.0
21	5.2	5.1	5.2	3.6	2.5	3.1	5.0	4.6	4.8	9.1	8.8	9.0
22	5.2	5.1	5.2	3.0	2.0	2.6	5.1	4.7	4.9	9.2	8.9	9.0
23	5.4	5.2	5.2	3.3	2.4	2.7	5.2	4.8	4.9	9.1	8.8	9.0
24	5.7	5.3	5.4	3.0	2.6	2.8	5.4	5.0	5.1	9.3	9.0	9.1
25	5.7	5.4	5.5	4.1	2.9	3.1	5.7	5.3	5.5	9.4	9.1	9.2
26	5.8	5.4	5.7	3.4	3.0	3.3	6.5	5.6	5.8	9.5	9.3	9.4
27	5.7	5.7	5.7	4.2	3.1	3.4	6.4	5.7	6.0	9.4	9.2	9.3
28	5.7	5.7	5.7	4.2	3.3	3.6	6.8	6.0	6.3	9.4	9.2	9.3
29	5.7	5.6	5.6	5.9	3.8	4.1	7.1	6.2	6.6	9.6	9.3	9.4
30	5.6	5.4	5.5	4.5	4.3	4.4	8.2	6.6	6.9	9.5	9.3	9.4
31	---	---	---	4.5	4.3	4.4	7.3	7.1	7.2	---	---	---
MONTH	5.9	3.5	5.2	5.9	2.0	4.1	8.2	3.0	5.1	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.2	9.8	10	10.8	10.2	10.5	10.8	10.3	10.6	10.6	10.1	10.4
2	9.9	9.8	9.8	10.7	10.4	10.6	10.8	10.6	10.7	10.9	9.5	10.7
3	9.9	9.8	9.9	10.4	10.0	10.3	10.8	10.4	10.5	11.1	10.4	11.0
4	9.9	9.8	9.8	10.6	10.2	10.3	10.7	10.4	10.6	11.1	10.6	10.8
5	9.8	9.7	9.8	10.6	10.2	10.3	10.7	10.4	10.6	10.8	8.5	10.4
6	9.9	9.7	9.8	10.6	10.2	10.3	10.6	10.4	10.6	10.7	9.0	10.2
7	9.8	9.8	9.8	10.4	10.1	10.2	10.6	10.2	10.4	10.8	8.9	10.2
8	9.8	9.7	9.8	10.3	10.1	10.1	10.6	10.2	10.4	10.9	10.3	10.6
9	9.8	9.7	9.8	10.3	9.9	10.1	10.7	10.4	10.6	11.8	10.2	11.0
10	9.8	9.5	9.7	10.4	10.0	10.1	10.7	9.8	10.2	12.4	11.2	11.8
11	9.7	9.5	9.6	10.4	10.2	10.3	10	9.5	9.7	12.4	11.2	12.1
12	9.7	9.5	9.6	10.7	10.2	10.4	9.9	9.5	9.7	12.4	11.7	12.3
13	9.8	9.5	9.7	10.8	9.7	10.2	9.8	9.3	9.5	12.4	10.6	12.0
14	9.7	9.7	9.7	10.3	9.8	10.1	9.8	9.3	9.6	12.4	9.5	11.0
15	10.0	9.5	9.6	10.3	10	10.1	9.8	7.0	8.6	9.9	8.6	9.6
16	9.7	9.5	9.5	10.2	10.0	10.1	10.0	9.5	9.8	9.8	7.6	8.9
17	9.8	9.5	9.6	10.6	10.0	10.3	10.0	9.7	9.9	8.8	7.3	8.0
18	9.8	9.5	9.6	11.1	10.4	10.8	10.1	9.8	10.0	8.7	7.8	8.1
19	9.7	9.6	9.6	11.5	11.1	11.2	10.4	8.5	10.0	9.2	8.0	8.7
20	9.7	9.5	9.6	11.7	11.1	11.5	9.4	8.3	8.6	9.2	7.9	8.6
21	9.7	9.3	9.6	11.8	11.2	11.5	9.0	8.2	8.7	9.2	8.2	9.0
22	9.7	9.3	9.4	12.2	11.6	11.9	9.4	8.8	9.0	9.7	8.3	9.2
23	9.9	9.3	9.6	12.4	11.6	12.2	9.5	8.5	8.9	8.5	8.0	8.3
24	9.7	9.5	9.7	12.5	11.4	12.2	9.4	8.1	8.6	8.5	8.2	8.4
25	10.1	9.7	10	12.5	10.7	11.5	8.5	7.3	8.0	8.7	8.0	8.4
26	10.1	9.5	9.9	11.4	10.8	11.0	8.2	7.2	7.8	9.3	8.3	8.8
27	10.5	10.0	10.3	11.1	10.7	10.9	8.1	7.3	7.7	9.3	8.1	8.6
28	11.0	10.4	10.7	10.9	10.7	10.8	9.7	8.1	8.8	8.8	8.1	8.6
29	11.2	10.7	11.1	10.8	10.7	10.7	9.8	8.7	9.5	9.7	8.0	8.6
30	11.0	10.2	10.7	10.8	10.7	10.8	9.9	8.4	9.4	9.8	8.3	9.3
31	10.7	10.0	10.3	---	---	---	10.4	9.6	10.1	8.5	8.1	8.3
MONTH	11.2	9.3	9.9	12.5	9.7	10.7	10.8	7.0	9.6	12.4	7.3	9.7
		FEBRUARY			MARCH			APRIL			MAY	
1	9.4	8.2	8.7	10.6	9.8	10.2	9.0	8.7	8.8	6.0	5.3	5.6
2	10.6	8.6	9.9	10.2	9.7	10	8.8	8.2	8.6	6.1	5.6	5.9
3	10.7	9.8	10.4	10.2	10	10.1	8.2	6.6	7.5	6.0	5.5	5.7
4	10.1	8.2	8.8	10.6	10.0	10.4	8.0	7.3	7.6	6.5	5.7	6.2
5	10.7	8.5	9.1	10.4	9.5	10	8.2	7.8	8.0	6.5	5.6	5.9
6	11.3	10.5	10.9	9.8	9.5	9.7	8.1	7.8	8.0	6.2	4.8	5.7
7	12.2	11.0	11.5	10.0	9.3	9.8	8.0	6.9	7.6	5.6	4.3	5.1
8	13.1	12.2	12.7	9.9	8.5	9.1	7.8	7.1	7.6	5.6	4.1	5.1
9	13.3	12.4	13.0	9.7	9.0	9.4	7.6	6.2	6.7	5.6	5.4	5.5
10	13.3	9.7	11.5	9.7	9.1	9.3	6.8	5.4	6.2	6.1	5.6	5.8
11	10.2	9.8	10.0	9.3	8.8	9.1	7.6	6.5	7.1	6.2	5.6	5.9
12	10.6	9.9	10.1	9.5	8.6	8.8	7.6	6.6	7.2	6.0	5.0	5.7
13	11.2	10.2	10.8	9.9	9.1	9.7	6.8	6.4	6.5	6.0	5.0	5.8
14	11.7	10.5	11.2	9.3	8.7	9.0	6.8	6.4	6.6	5.9	5.0	5.6
15	11.8	11.1	11.5	9.5	8.6	9.3	6.8	6.3	6.6	5.4	4.5	4.9
16	11.7	10.7	11.6	10.4	8.7	9.6	6.7	6.5	6.6	5.3	4.6	4.9
17	11.3	10	10.5	9.5	9.1	9.3	7.0	6.4	6.6	5.4	4.8	5.2
18	10.5	9.8	10.0	9.5	9.0	9.2	7.2	6.4	6.8	5.7	5.1	5.3
19	10.5	10.0	10.3	10.1	9.3	9.9	7.1	6.4	6.7	5.7	5.1	5.5
20	10.9	10.2	10.6	10.2	9.5	10.0	7.1	6.2	6.8	5.2	4.7	5.0
21	11.0	10.0	10.6	10.2	8.8	9.6	6.7	6.2	6.4	5.1	4.7	4.9
22	10.9	10.3	10.6	10.5	9.3	10.2	6.8	6.0	6.4	5.0	4.8	4.9
23	11.3	10.2	10.9	10.3	9.2	9.3	6.1	5.4	5.7	4.8	4.7	4.8
24	11.3	10	10.5	9.3	8.8	9.1	6.0	5.7	5.8	5.0	4.7	4.8
25	10.2	10	10.1	9.2	8.7	9.1	6.0	5.6	5.7	5.0	4.7	4.8
26	10.6	10.0	10.4	9.5	8.6	9.0	6.1	5.7	5.9	5.0	4.6	4.8
27	11.3	10.2	10.9	9.7	8.8	9.3	5.9	5.7	5.8	5.0	4.7	4.8
28	10.6	10.2	10.3	9.9	8.6	9.1	6.4	5.7	5.9	5.0	4.7	4.9
29	---	---	---	8.8	8.2	8.6	6.0	5.6	5.9	4.9	4.7	4.8
30	---	---	---	9.2	8.8	9.0	5.9	5.0	5.6	5.0	4.8	4.9
31	---	---	---	9.1	8.6	8.9	---	---	---	5.2	4.9	5.0
MONTH	13.3	8.2	10.6	10.6	8.2	9.5	9.0	5.0	6.8	6.5	4.1	5.3

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.4	5.1	5.5	5.6	5.4	5.5	7.0	5.8	6.5	7.9	7.2	7.4
2	6.3	5.5	5.7	5.6	5.4	5.5	7.0	6.2	6.8	8.6	7.4	8.1
3	5.8	5.4	5.7	5.6	5.4	5.5	7.4	6.5	7.0	8.3	7.3	7.8
4	6.0	5.5	5.7	5.9	5.2	5.5	8.0	7.0	7.4	8.5	7.5	7.7
5	6.5	5.7	6.3	6.0	5.1	5.8	8.5	7.8	8.2	7.6	7.5	7.5
6	6.5	6.3	6.5	5.7	4.8	5.1	8.4	7.0	7.9	8.1	7.5	7.8
7	6.6	5.9	6.4	5.4	5.0	5.3	8.3	6.5	7.7	8.1	7.8	8.0
8	6.5	5.8	6.3	5.4	4.3	4.8	8.3	7.4	7.9	8.5	8.0	8.1
9	6.5	6.0	6.3	5.3	4.8	5.1	8.3	7.0	8.0	9.0	8.4	8.7
10	6.5	6.0	6.3	5.2	4.6	4.9	7.9	7.1	7.6	9.0	8.6	8.7
11	6.4	5.9	6.2	5.1	4.5	4.8	7.8	6.3	7.0	---	---	---
12	6.4	5.7	6.2	4.8	4.6	4.7	7.7	5.9	6.9	---	---	---
13	6.1	5.4	5.8	4.7	4.4	4.5	7.7	6.0	7.0	---	---	---
14	6.1	5.1	5.5	4.5	4.3	4.5	7.7	6.1	7.1	---	---	---
15	5.4	5.0	5.2	4.4	4.2	4.3	7.5	5.3	6.3	---	---	---
16	5.3	4.5	5.1	4.3	4.0	4.2	7.3	5.7	6.5	---	---	---
17	5.4	4.7	5.1	4.2	3.7	4.0	6.9	4.6	5.5	---	---	---
18	6.5	5.3	5.7	4.3	3.7	4.0	6.7	4.7	6.1	---	---	---
19	6.7	4.8	6.0	4.0	3.7	3.9	7.1	6.1	6.7	---	---	---
20	5.3	5.1	5.2	3.9	3.5	3.7	7.6	6.5	7.0	9.8	9.2	9.6
21	5.3	5.1	5.2	3.9	3.5	3.7	7.6	6.8	7.2	9.7	9.0	9.4
22	5.2	5.1	5.2	3.9	2.8	3.6	7.2	5.0	6.2	10.3	9.5	9.9
23	6.0	5.2	5.4	4.3	3.5	3.8	8.1	5.9	7.0	10.3	9.4	9.9
24	7.1	5.6	6.5	5.5	4.1	4.6	9.1	6.4	7.9	10.2	9.3	9.7
25	6.9	6.3	6.7	6.1	5.3	5.7	10.6	8.6	9.4	10.2	9.6	9.9
26	6.8	5.5	6.0	6.7	5.2	5.8	11.3	9.9	10.6	10.4	9.4	9.9
27	5.8	5.7	5.7	7.3	6.0	6.7	11.5	10.8	11.2	9.5	9.2	9.4
28	5.7	5.7	5.7	7.6	5.9	6.8	11.3	10.6	11.1	9.7	9.3	9.5
29	5.7	5.6	5.6	7.7	5.5	7.3	11.2	10.0	10.9	9.7	9.4	9.5
30	5.6	5.5	5.6	7.4	5.6	7.1	11.1	10.4	10.9	9.5	9.3	9.4
31	---	---	---	7.3	6.2	6.9	10.9	7.1	9.8	---	---	---
MONTH	7.1	4.5	5.8	7.7	2.8	5.1	11.5	4.6	7.8	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.6	7.6	7.9	7.6	7.7	7.7	7.6	7.6	7.6	7.4	7.5
2	7.8	7.6	7.6	7.9	7.6	7.7	7.9	7.6	7.7	7.6	7.4	7.5
3	7.8	7.5	7.6	7.7	7.5	7.6	7.9	7.8	7.8	7.6	7.5	7.6
4	7.8	7.5	7.6	7.6	7.5	7.6	7.9	7.8	7.8	7.6	7.5	7.6
5	7.7	7.5	7.6	7.7	7.5	7.6	8.0	7.8	7.9	7.7	7.6	7.6
6	7.8	7.6	7.7	7.7	7.6	7.7	7.9	7.8	7.9	7.7	7.5	7.6
7	7.9	7.6	7.7	7.8	7.6	7.6	7.9	7.8	7.9	7.6	7.4	7.5
8	8.0	7.7	7.8	7.7	7.6	7.7	7.9	7.8	7.8	7.6	7.4	7.5
9	7.9	7.7	7.8	7.7	7.6	7.7	7.9	7.7	7.8	7.5	7.4	7.4
10	7.9	7.7	7.8	7.7	7.6	7.7	7.8	7.6	7.7	7.6	7.4	7.5
11	7.7	7.5	7.6	7.7	7.6	7.7	7.7	7.7	7.7	7.7	7.5	7.6
12	7.8	7.5	7.6	7.7	7.6	7.7	7.8	7.6	7.7	7.9	7.5	7.7
13	7.7	7.5	7.6	7.7	7.6	7.6	7.8	7.7	7.8	7.8	7.3	7.6
14	7.6	7.5	7.6	7.7	7.6	7.7	7.8	7.3	7.6	7.5	7.3	7.4
15	7.6	7.5	7.5	7.7	7.6	7.7	7.4	7.2	7.3	7.5	7.3	7.4
16	7.6	7.5	7.6	7.7	7.6	7.7	7.7	7.1	7.4	7.4	7.2	7.4
17	7.7	7.6	7.6	7.8	7.6	7.7	7.7	7.3	7.5	7.4	7.2	7.3
18	7.8	7.6	7.7	7.8	7.6	7.7	7.7	7.6	7.6	7.5	7.4	7.4
19	7.8	7.6	7.7	7.7	7.6	7.7	7.8	7.6	7.7	7.4	7.4	7.4
20	7.7	7.5	7.6	7.7	7.6	7.7	7.7	7.6	7.7	7.5	7.4	7.5
21	7.7	7.5	7.6	7.7	7.6	7.6	7.7	7.6	7.7	7.4	7.3	7.3
22	7.6	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.7	7.4	7.3	7.4
23	7.8	7.6	7.7	7.7	7.6	7.7	7.7	7.6	7.7	7.4	7.3	7.4
24	7.7	7.7	7.7	7.7	7.5	7.6	7.6	7.4	7.6	7.4	7.2	7.3
25	7.7	7.6	7.7	7.6	7.4	7.6	7.5	7.3	7.3	7.4	7.2	7.3
26	7.8	7.7	7.7	7.7	7.6	7.6	7.5	7.3	7.4	7.5	7.3	7.4
27	7.9	7.7	7.8	7.7	7.6	7.7	7.5	7.4	7.4	7.6	7.5	7.5
28	7.9	7.7	7.8	7.7	7.6	7.7	7.5	7.4	7.4	7.6	7.5	7.6
29	7.8	7.7	7.7	7.7	7.6	7.7	7.5	7.4	7.5	7.6	7.4	7.5
30	7.8	7.7	7.8	7.7	7.6	7.7	7.5	7.4	7.5	7.6	7.5	7.6
31	7.8	7.6	7.7	---	---	---	7.6	7.4	7.5	7.6	7.5	7.6
MONTH	8.0	7.5	7.7	7.9	7.4	7.7	8.0	7.1	7.6	7.9	7.2	7.5
		FEBRUARY			MARCH			APRIL			MAY	
1	7.6	7.5	7.5	7.8	7.7	7.8	8.1	7.5	7.6	7.4	7.3	7.4
2	7.6	7.5	7.6	7.7	7.7	7.7	7.6	7.4	7.5	7.7	7.4	7.4
3	7.6	7.6	7.6	7.8	7.7	7.7	7.5	7.2	7.3	7.6	7.3	7.4
4	7.6	7.5	7.6	7.8	7.7	7.8	7.5	7.3	7.4	7.7	7.3	7.5
5	7.7	7.5	7.6	7.8	7.7	7.8	7.8	7.1	7.4	7.6	7.3	7.5
6	7.8	7.7	7.7	7.8	7.6	7.7	7.9	7.3	7.5	7.5	7.2	7.4
7	7.9	7.7	7.8	7.8	7.6	7.7	7.8	7.3	7.6	7.5	7.2	7.4
8	7.8	7.7	7.8	7.7	7.6	7.6	7.7	7.4	7.5	7.4	7.0	7.2
9	7.9	7.6	7.7	7.8	7.6	7.7	7.4	7.3	7.4	7.3	6.9	7.1
10	8.0	7.8	7.9	7.9	7.7	7.8	7.6	7.2	7.3	7.1	6.9	7.0
11	7.9	7.8	7.8	8.0	7.8	7.9	7.6	7.3	7.5	7.4	6.8	7.1
12	7.8	7.8	7.8	7.8	7.7	7.8	7.6	7.5	7.5	7.3	7.0	7.2
13	7.8	7.8	7.8	8.0	7.7	7.8	7.6	7.5	7.5	7.3	7.1	7.2
14	7.9	7.8	7.8	7.9	7.6	7.8	7.7	7.5	7.6	7.2	6.9	7.0
15	7.9	7.7	7.8	7.9	7.7	7.8	7.7	7.5	7.6	7.1	6.9	7.0
16	7.9	7.7	7.8	7.8	7.7	7.8	7.7	7.6	7.6	7.0	6.9	7.0
17	7.9	7.8	7.8	7.8	7.7	7.7	7.8	7.6	7.6	7.1	6.9	7.0
18	7.9	7.8	7.8	7.8	7.7	7.8	8.0	7.6	7.8	7.4	7.0	7.2
19	7.9	7.7	7.8	7.8	7.7	7.8	8.2	7.8	8.0	7.4	7.2	7.3
20	7.9	7.7	7.8	7.9	7.7	7.7	8.6	8.0	8.2	7.3	7.2	7.3
21	7.8	7.7	7.8	7.9	7.7	7.8	8.1	7.9	7.9	7.5	7.3	7.4
22	7.8	7.7	7.8	7.9	7.7	7.8	8.2	7.3	7.8	7.6	7.4	7.4
23	7.9	7.8	7.8	7.8	7.7	7.7	7.6	7.3	7.5	7.5	7.3	7.4
24	7.8	7.6	7.7	7.7	7.6	7.7	7.6	7.5	7.6	7.5	7.3	7.4
25	7.7	7.6	7.7	7.8	7.6	7.7	7.7	7.5	7.6	7.5	7.3	7.4
26	7.8	7.6	7.7	7.8	7.6	7.7	7.7	7.5	7.6	7.5	7.3	7.4
27	7.9	7.8	7.9	7.8	7.6	7.7	7.8	7.6	7.6	7.7	7.3	7.5
28	7.9	7.8	7.8	7.7	7.6	7.7	7.8	7.5	7.6	7.6	7.3	7.4
29	---	---	---	7.7	7.5	7.6	7.8	7.4	7.6	7.8	7.3	7.5
30	---	---	---	7.9	7.5	7.6	7.6	7.3	7.4	7.6	7.3	7.4
31	---	---	---	7.7	7.5	7.6	---	---	---	7.5	7.2	7.4
MONTH	8.0	7.5	7.8	8.0	7.5	7.7	8.6	7.1	7.6	7.8	6.8	7.3

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	7.3	7.3	7.8	7.3	7.5	7.2	6.8	7.0	8.0	7.6	7.8
2	7.5	7.3	7.4	7.6	7.4	7.5	7.0	6.8	6.9	8.4	7.5	7.9
3	7.6	7.2	7.3	7.5	7.3	7.3	7.0	6.7	6.8	8.3	7.8	8.0
4	7.6	7.1	7.3	7.4	7.2	7.3	6.8	6.6	6.7	7.8	7.5	7.7
5	7.3	6.9	7.1	7.3	7.1	7.2	7.0	6.8	6.8	7.9	7.5	7.7
6	7.2	7.0	7.0	7.4	7.1	7.2	7.2	6.8	6.9	7.8	7.5	7.7
7	7.1	6.8	7.0	7.7	7.2	7.4	7.2	6.9	7.0	7.7	7.5	7.6
8	7.3	7.0	7.1	7.2	7.1	7.2	7.2	7.0	7.1	7.8	7.4	7.6
9	7.2	7.0	7.1	7.4	7.1	7.2	7.3	7.0	7.1	7.8	7.5	7.6
10	7.3	7.0	7.2	7.6	7.1	7.3	7.1	6.6	6.8	7.6	7.4	7.5
11	7.3	7.1	7.2	7.8	7.2	7.4	7.0	6.8	6.9	---	---	---
12	7.3	7.1	7.2	7.3	7.1	7.2	7.0	6.8	6.9	---	---	---
13	7.5	7.2	7.3	7.2	7.1	7.1	7.2	6.8	7.0	---	---	---
14	7.3	7.2	7.2	7.1	7.0	7.0	7.2	7.0	7.0	---	---	---
15	7.3	7.0	7.2	7.0	7.0	7.0	7.3	7.0	7.1	---	---	---
16	7.2	6.9	7.1	7.3	6.9	7.1	7.2	7.0	7.2	---	---	---
17	7.1	7.0	7.0	7.2	6.9	7.0	7.2	7.0	7.1	---	---	---
18	7.0	6.9	7.0	7.2	7.0	7.0	7.1	7.0	7.1	---	---	---
19	7.1	7.0	7.0	7.2	7.0	7.1	7.3	7.1	7.1	---	---	---
20	7.3	7.0	7.2	7.2	7.0	7.1	7.4	7.0	7.1	8.0	7.4	7.7
21	7.4	7.2	7.3	7.2	6.9	7.0	7.4	7.0	7.2	7.7	7.4	7.6
22	7.5	7.2	7.3	7.0	6.8	7.0	7.5	7.2	7.3	7.6	7.4	7.5
23	7.6	7.3	7.5	7.0	6.9	7.0	7.7	7.1	7.4	8.0	7.1	7.5
24	7.8	7.3	7.5	7.0	6.9	7.0	7.2	7.1	7.2	7.8	7.5	7.6
25	7.6	7.3	7.4	7.1	6.9	7.0	7.3	7.2	7.2	7.7	7.3	7.5
26	7.5	7.3	7.4	7.2	7.0	7.1	7.4	7.2	7.2	7.6	7.4	7.5
27	7.7	7.3	7.4	7.1	6.8	7.0	7.4	7.2	7.3	7.6	7.3	7.4
28	7.4	7.3	7.3	7.1	6.9	7.1	7.4	7.2	7.3	7.5	7.3	7.4
29	7.4	7.2	7.3	7.2	7.0	7.1	7.6	7.2	7.4	7.7	7.2	7.5
30	7.7	7.2	7.3	7.2	7.1	7.2	8.3	6.9	7.5	7.6	7.5	7.6
31	---	---	---	7.2	7.1	7.2	7.9	7.5	7.7	---	---	---
MONTH	7.8	6.8	7.2	7.8	6.8	7.2	8.3	6.6	7.1	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.3	7.5	7.6	7.1	7.4	7.7	7.6	7.6	7.6	7.5	7.6
2	7.6	7.4	7.5	7.6	7.2	7.3	7.8	7.6	7.7	7.6	7.5	7.6
3	7.6	7.4	7.5	7.7	7.2	7.5	7.9	7.7	7.8	7.6	7.5	7.5
4	7.6	7.4	7.6	7.8	7.6	7.7	7.9	7.8	7.8	7.5	7.4	7.4
5	7.6	7.4	7.5	7.8	7.7	7.7	7.8	7.7	7.8	7.4	7.3	7.4
6	7.8	7.5	7.6	7.9	7.7	7.8	7.8	7.6	7.7	7.4	7.1	7.2
7	7.8	7.6	7.6	7.9	7.7	7.8	7.8	7.6	7.7	7.4	7.1	7.2
8	7.8	7.6	7.7	7.9	7.8	7.8	7.8	7.7	7.8	7.2	7.1	7.2
9	7.7	7.5	7.6	7.9	7.8	7.8	7.8	7.6	7.7	7.2	7.1	7.2
10	7.8	7.5	7.6	7.9	7.8	7.8	7.7	7.6	7.6	7.2	7.0	7.1
11	7.7	7.5	7.6	7.8	7.7	7.7	7.7	7.6	7.7	7.2	7.0	7.1
12	7.8	7.6	7.6	7.7	7.5	7.6	7.8	7.6	7.7	7.1	7.0	7.1
13	7.7	7.6	7.6	7.7	7.5	7.7	7.8	7.7	7.8	7.3	6.9	7.0
14	7.6	7.5	7.5	7.8	7.7	7.7	7.8	7.7	7.8	7.4	6.9	7.2
15	7.5	7.4	7.5	7.8	7.7	7.8	7.8	7.3	7.6	7.5	7.3	7.4
16	7.6	7.4	7.5	7.8	7.7	7.8	7.8	7.7	7.8	7.5	7.3	7.4
17	7.6	7.4	7.6	7.8	7.6	7.7	7.8	7.7	7.7	7.5	7.3	7.4
18	7.6	7.4	7.6	7.7	7.7	7.7	7.7	7.6	7.7	7.5	7.4	7.4
19	7.7	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.7	7.6	7.4	7.5
20	7.7	7.5	7.6	7.6	7.5	7.6	7.7	7.6	7.7	7.5	7.4	7.5
21	7.7	7.6	7.7	7.6	7.5	7.5	7.7	7.6	7.7	7.5	7.4	7.4
22	7.8	7.6	7.6	7.5	7.4	7.4	7.7	7.7	7.7	7.5	7.4	7.4
23	7.8	7.6	7.7	7.5	7.4	7.4	7.7	7.5	7.7	7.4	7.3	7.4
24	7.8	7.7	7.7	7.5	7.3	7.4	7.6	7.4	7.6	7.4	7.3	7.4
25	7.7	7.6	7.7	7.7	7.3	7.5	7.5	7.3	7.4	7.4	7.3	7.3
26	7.8	7.7	7.7	7.8	7.7	7.7	7.5	7.3	7.4	7.4	7.2	7.4
27	7.7	7.6	7.6	7.8	7.6	7.7	7.5	7.4	7.5	7.5	7.3	7.4
28	7.7	7.6	7.6	7.7	7.6	7.6	7.6	7.5	7.6	7.4	7.3	7.4
29	7.6	7.5	7.6	7.7	7.6	7.7	7.6	7.5	7.6	7.5	7.3	7.4
30	7.8	7.3	7.4	7.7	7.5	7.6	7.6	7.5	7.5	7.5	7.4	7.5
31	7.7	7.3	7.5	---	---	---	7.6	7.6	7.6	7.4	7.4	7.4
MONTH	7.8	7.3	7.6	7.9	7.1	7.6	7.9	7.3	7.7	7.6	6.9	7.3
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	7.4	7.4	7.7	7.6	7.6	7.6	7.2	7.5	7.1	7.0	7.0
2	7.5	7.4	7.4	7.6	7.6	7.6	7.6	7.4	7.5	7.1	6.8	7.0
3	7.5	7.4	7.4	7.7	7.6	7.6	7.5	7.1	7.3	7.1	6.9	7.0
4	7.5	7.3	7.4	7.7	7.6	7.6	7.4	7.3	7.3	7.1	6.9	7.0
5	7.6	7.4	7.5	7.7	7.6	7.7	7.5	7.3	7.4	7.2	7.0	7.1
6	7.6	7.5	7.6	7.7	7.5	7.6	7.3	7.2	7.2	7.2	6.8	7.0
7	7.6	7.6	7.6	7.8	7.5	7.6	7.5	7.0	7.3	7.3	6.8	7.1
8	7.6	7.5	7.6	7.7	7.5	7.6	7.5	7.3	7.4	7.3	6.8	7.1
9	7.6	7.4	7.5	7.6	7.5	7.5	7.3	7.2	7.3	7.3	7.0	7.2
10	7.8	7.4	7.6	7.8	7.5	7.6	7.4	7.1	7.3	7.3	7.0	7.1
11	7.7	7.6	7.7	7.8	7.6	7.7	7.5	7.4	7.5	7.3	7.0	7.2
12	7.7	7.6	7.7	7.7	7.5	7.6	7.5	7.4	7.4	7.2	6.9	7.1
13	7.8	7.6	7.7	7.8	7.6	7.7	7.5	7.4	7.4	7.2	6.8	6.9
14	7.7	7.5	7.6	7.8	7.5	7.6	7.6	7.4	7.5	7.0	6.7	6.9
15	7.6	7.5	7.6	7.7	7.5	7.6	7.6	7.4	7.5	7.0	6.5	6.7
16	7.7	7.5	7.5	7.7	7.6	7.6	7.6	7.5	7.5	7.0	6.6	6.8
17	7.7	7.5	7.7	7.7	7.6	7.6	7.6	7.5	7.5	7.0	6.6	6.8
18	7.8	7.6	7.7	7.7	7.5	7.6	7.5	7.4	7.5	7.3	6.8	7.0
19	7.8	7.7	7.7	7.7	7.5	7.6	7.5	7.2	7.4	7.4	7.1	7.2
20	7.7	7.6	7.7	7.7	7.5	7.6	7.3	6.9	7.1	7.3	7.2	7.3
21	7.7	7.4	7.6	7.6	7.3	7.5	7.3	6.8	7.0	7.5	7.3	7.4
22	7.7	7.5	7.6	7.5	7.3	7.4	7.5	6.8	7.1	7.6	7.4	7.4
23	7.6	7.5	7.5	7.6	7.4	7.6	7.4	7.1	7.2	7.4	7.2	7.4
24	7.7	7.6	7.7	7.6	7.4	7.5	7.3	7.2	7.2	7.5	7.3	7.4
25	7.7	7.6	7.7	7.6	7.4	7.5	7.3	7.1	7.2	7.5	7.3	7.4
26	7.7	7.6	7.6	7.6	7.3	7.5	7.3	7.2	7.3	7.5	7.2	7.4
27	7.7	7.6	7.6	7.6	7.3	7.5	7.3	7.1	7.2	7.5	7.2	7.3
28	7.8	7.6	7.7	7.6	7.2	7.5	7.5	7.1	7.2	7.5	7.1	7.3
29	---	---	---	7.6	7.4	7.5	7.4	7.0	7.2	7.5	7.1	7.2
30	---	---	---	7.6	7.4	7.5	7.2	6.9	7.1	7.5	7.0	7.3
31	---	---	---	7.7	7.3	7.5	---	---	---	7.5	7.2	7.3
MONTH	7.8	7.3	7.6	7.8	7.2	7.6	7.6	6.8	7.3	7.6	6.5	7.1

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	7.0	7.3	7.3	7.0	7.1	6.9	6.8	6.8	7.8	7.2	7.6
2	7.4	7.0	7.3	7.4	6.9	7.1	6.9	6.8	6.8	7.5	7.0	7.1
3	7.4	7.0	7.2	7.4	6.9	7.1	7.0	6.8	6.9	7.8	7.0	7.3
4	7.2	6.9	7.0	7.2	7.0	7.1	7.0	7.0	7.0	7.8	7.0	7.5
5	7.0	6.9	7.0	7.2	7.0	7.0	7.1	7.0	7.0	7.9	7.5	7.7
6	7.0	6.8	6.9	7.4	6.9	7.1	7.1	7.0	7.0	7.9	7.6	7.7
7	6.9	6.7	6.8	7.1	6.8	6.9	7.1	7.0	7.0	7.8	7.6	7.7
8	6.8	6.7	6.8	7.3	6.9	7.2	7.1	7.0	7.0	7.7	7.4	7.5
9	6.7	6.7	6.7	7.3	7.0	7.1	7.1	6.9	7.1	7.5	7.3	7.3
10	6.9	6.7	6.7	7.2	6.9	7.0	7.1	6.9	7.0	7.6	7.3	7.5
11	6.8	6.7	6.8	7.2	6.8	7.0	7.1	6.9	6.9	---	---	---
12	7.0	6.7	6.7	7.3	6.8	7.0	7.1	6.8	7.0	---	---	---
13	7.2	6.7	6.9	7.2	7.1	7.2	7.2	6.8	7.0	---	---	---
14	7.2	6.7	7.0	7.2	7.0	7.1	7.2	6.9	7.0	---	---	---
15	7.3	6.9	7.1	7.1	7.1	7.1	7.2	6.8	6.9	---	---	---
16	7.3	6.9	7.1	7.1	7.0	7.1	7.1	6.9	7.0	---	---	---
17	7.3	7.0	7.2	7.2	6.8	7.1	7.2	6.8	7.0	---	---	---
18	7.2	7.0	7.1	7.3	6.8	7.1	7.0	6.8	6.9	---	---	---
19	7.3	7.0	7.1	7.3	7.1	7.2	7.0	6.9	6.9	---	---	---
20	7.4	7.2	7.3	7.3	7.1	7.1	6.9	6.8	6.9	7.4	7.2	7.3
21	7.4	7.2	7.3	7.2	6.9	7.1	6.9	6.9	6.9	7.8	7.1	7.3
22	7.4	7.2	7.3	7.2	6.8	7.0	7.1	6.8	6.9	7.5	7.2	7.2
23	7.3	7.1	7.2	7.1	6.9	7.0	7.0	6.8	6.9	7.3	7.1	7.2
24	7.3	7.0	7.1	7.1	7.0	7.0	7.1	6.9	7.0	7.6	7.1	7.2
25	7.1	6.9	7.0	7.1	7.0	7.0	7.1	7.0	7.1	7.7	7.2	7.4
26	7.4	6.9	7.2	7.0	6.9	6.9	7.2	7.1	7.1	7.8	7.3	7.4
27	7.4	7.0	7.2	6.9	6.8	6.8	7.2	7.1	7.2	7.7	7.5	7.6
28	7.4	7.1	7.3	6.9	6.8	6.8	7.2	7.1	7.2	7.7	7.5	7.6
29	7.3	7.1	7.3	6.9	6.8	6.8	7.2	7.0	7.2	7.6	7.3	7.5
30	7.3	7.1	7.2	6.9	6.8	6.8	7.2	7.2	7.2	7.6	7.5	7.6
31	---	---	---	6.8	6.8	6.8	7.9	7.1	7.3	---	---	---
MONTH	7.4	6.7	7.1	7.4	6.8	7.0	7.9	6.8	7.0	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.2	23.6	23.9	19.5	18.4	18.8	13.0	12.4	12.7	5.3	4.5	4.7
2	24.7	23.7	24.1	19.9	18.6	19.1	13.0	12.1	12.4	6.2	4.6	5.0
3	25.1	24.0	24.3	20.0	19.2	19.6	12.4	11.6	12.0	6.4	5.0	5.3
4	24.6	23.9	24.1	19.2	18.8	19.0	12.0	11.4	11.7	8.5	5.4	7.1
5	24.2	23.4	23.8	19.1	18.3	18.7	11.5	10.8	11.1	10.1	7.7	9.1
6	23.4	22.2	22.7	18.3	17.3	17.9	11.5	11.1	11.3	10.3	9.4	9.9
7	22.2	21.7	22.0	17.4	16.7	17.1	12.4	11.3	11.9	11.3	10.2	10.7
8	22.4	21.3	21.7	17.0	16.2	16.8	13.3	12.4	12.8	11.7	10.6	11.0
9	22.0	21.3	21.6	16.2	14.9	15.5	13.8	12.7	13.2	11.6	10.9	11.2
10	22.4	21.7	22.0	14.9	14.0	14.4	14.5	13.3	13.9	11.4	10.8	11.1
11	22.2	20.8	21.5	15.0	13.8	14.1	14.6	13.8	14.3	11.3	10.7	11.0
12	21.5	20.7	21.0	14.9	14.0	14.6	13.8	12.7	13.2	12.1	10.6	11.3
13	21.3	20.8	21.0	14.9	13.7	14.4	12.7	11.7	12.2	12.5	11.2	11.8
14	21.1	20.7	20.9	13.8	12.5	13.0	11.7	9.7	10.7	12.9	11.7	12.3
15	20.7	19.8	20.4	12.5	11.8	12.1	9.7	7.4	8.6	12.2	10.6	11.2
16	19.8	18.8	19.2	12.0	10.9	11.6	9.3	7.7	8.6	10.6	9.3	9.9
17	18.8	18.2	18.5	12.3	11.0	11.5	9.3	7.0	8.1	9.4	7.6	8.4
18	18.7	18.0	18.4	12.0	11.4	11.8	8.8	8.1	8.4	7.6	4.8	6.5
19	19.6	18.4	19.0	11.9	11.5	11.7	8.9	8.2	8.4	5.5	4.3	4.9
20	19.8	19.3	19.6	12.7	11.4	12.0	8.3	6.0	7.0	5.1	4.4	4.7
21	19.8	19.5	19.6	13.1	12.4	12.7	6.0	4.8	5.5	5.2	4.3	4.6
22	19.5	18.5	19.0	13.5	12.8	13.0	6.1	5.0	5.6	4.3	3.8	4.1
23	18.5	17.4	18.1	13.8	13.0	13.5	7.2	5.9	6.4	4.3	2.7	3.6
24	17.6	16.9	17.3	14.3	13.7	14.0	7.3	6.7	7.0	2.7	1.7	2.2
25	17.0	16.1	16.7	15.1	14.1	14.7	6.7	5.8	6.3	3.6	1.8	2.2
26	16.9	15.5	16.3	14.4	13.1	13.7	5.8	4.6	5.4	3.0	2.1	2.5
27	17.0	15.9	16.4	13.1	12.4	12.8	4.7	3.4	4.3	3.2	2.6	2.9
28	17.2	16.3	16.7	13.3	12.7	13.0	4.2	3.3	3.6	2.6	2.0	2.3
29	16.7	16.3	16.5	13.0	12.5	12.7	4.2	3.4	3.8	2.5	1.6	2.0
30	17.7	16.6	17.1	13.0	12.3	12.7	4.5	4.0	4.2	2.8	2.2	2.5
31	18.9	17.5	18.1	---	---	---	5.0	4.3	4.6	3.2	2.6	2.9
MONTH	25.1	15.5	20.0	20.0	10.9	14.6	14.6	3.3	9.0	12.9	1.6	6.7
		FEBRUARY			MARCH			APRIL			MAY	
1	3.4	2.9	3.2	8.6	7.8	8.2	16.9	14.7	15.3	18.8	18.3	18.5
2	3.7	3.0	3.3	8.0	7.0	7.4	16.1	15.4	15.8	19.7	18.2	18.7
3	3.7	3.4	3.6	7.1	6.6	6.9	15.6	14.2	14.7	19.3	18.0	18.5
4	4.1	3.6	3.8	7.2	5.2	6.6	15.1	13.9	14.4	19.2	17.6	18.4
5	4.5	3.6	4.0	8.1	6.7	7.3	16.7	14.7	15.3	18.7	18.0	18.4
6	5.1	3.9	4.4	8.3	7.1	7.7	17.2	15.5	16.0	18.0	15.5	16.8
7	5.5	4.6	4.9	9.0	7.7	8.3	17.5	16.2	17.0	16.3	14.5	15.5
8	5.8	4.8	5.0	9.9	8.8	9.4	18.3	17.3	17.7	16.9	15.3	16.1
9	6.7	4.8	5.2	9.0	8.2	8.6	17.8	16.2	17.0	18.5	16.7	17.2
10	7.6	6.5	7.1	9.0	8.0	8.4	16.2	15.3	15.8	18.2	17.2	17.7
11	7.1	6.4	6.7	9.4	8.4	8.9	16.7	15.4	16.0	20.4	17.6	18.1
12	6.5	5.9	6.3	9.2	8.5	9.0	16.2	15.3	15.7	21.2	18.8	19.9
13	6.9	5.9	6.5	10.8	8.7	9.5	15.3	14.3	14.8	21.1	19.4	19.9
14	7.4	6.8	7.0	9.9	9.4	9.6	14.3	13.7	13.9	20.3	19.0	19.6
15	8.8	7.2	7.6	10.2	8.8	9.6	13.8	12.1	12.9	21.2	19.8	20.5
16	9.5	7.3	8.3	10.0	8.9	9.5	12.1	11.4	11.7	21.8	21.1	21.4
17	9.9	8.9	9.3	8.9	7.7	8.4	12.7	10.8	11.6	21.8	20.5	21.2
18	9.7	8.3	8.9	8.6	7.5	8.1	13.9	11.8	12.5	22.3	20.8	21.2
19	9.1	8.0	8.4	9.0	7.9	8.5	15.7	13.2	14.4	21.4	20.9	21.1
20	8.8	7.8	8.3	10.3	8.8	9.1	18.3	15.1	15.8	21.4	20.8	21.1
21	9.2	8.5	8.8	10.9	9.6	10.0	17.8	15.8	16.9	21.1	20.0	20.6
22	9.6	8.9	9.3	11.1	9.6	10.4	18.2	16.6	17.3	21.2	20.1	20.7
23	9.9	9.0	9.4	12.1	10.7	11.2	18.7	17.8	18.2	21.8	20.5	21.1
24	9.3	8.9	9.1	13.0	11.9	12.4	18.2	15.9	17.2	21.6	21.0	21.2
25	8.9	7.8	8.4	12.8	12.2	12.5	16.0	15.6	15.8	21.2	19.4	20.3
26	8.8	7.6	8.1	13.0	12.1	12.5	16.0	15.4	15.7	20.5	19.2	19.8
27	8.4	7.9	8.2	12.9	12.5	12.7	17.1	15.9	16.3	21.6	20.0	20.7
28	8.4	7.8	8.1	13.8	12.8	13.3	18.1	15.9	16.7	22.4	21.1	21.7
29	---	---	---	14.2	13.3	13.7	17.6	16.6	17.0	23.7	22.2	22.8
30	---	---	---	15.3	13.8	14.3	18.5	16.9	17.5	23.4	22.8	23.1
31	---	---	---	15.1	14.0	14.5	---	---	---	23.4	22.7	22.9
MONTH	9.9	2.9	6.8	15.3	5.2	9.9	18.7	10.8	15.6	23.7	14.5	19.8

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.8	22.0	22.4	29.6	27.4	28.2	28.6	27.8	28.1	29.2	28.6	28.9
2	22.0	21.1	21.5	29.3	28.6	28.9	28.6	27.5	28.0	30.3	28.2	28.9
3	22.9	21.3	21.7	29.1	28.2	28.6	29.2	27.5	28.3	29.7	28.7	29.2
4	22.8	22.1	22.4	29.2	27.8	28.2	29.0	28.0	28.4	28.8	27.7	28.2
5	23.9	22.0	22.8	28.8	27.8	28.3	29.8	28.6	28.9	27.7	26.8	27.2
6	24.9	23.2	24.0	30.1	28.4	29.0	30.8	28.3	29.2	26.8	25.8	26.3
7	26.2	24.3	24.7	31.2	29.6	30.1	30.1	29.0	29.5	26.1	25.5	25.8
8	27.4	25.1	26.2	29.8	29.0	29.5	29.6	28.6	29.1	26.0	25.2	25.5
9	26.4	25.2	25.7	30.7	29.2	29.7	30.0	28.6	28.9	26.3	25.1	25.5
10	27.0	25.0	25.9	31.0	29.4	29.8	29.1	28.1	28.5	25.6	24.9	25.3
11	27.0	25.6	26.3	31.4	29.6	30.3	30.1	28.8	29.2	---	---	---
12	27.3	25.9	26.6	30.5	30.1	30.3	30.7	29.5	29.9	---	---	---
13	28.6	26.4	27.2	30.2	28.8	29.5	32.2	29.9	30.4	---	---	---
14	29.0	27.4	28.2	29.4	28.5	28.7	31.9	30.3	31.0	---	---	---
15	30.1	28.5	29.2	29.2	28.1	28.5	31.9	30.6	31.2	---	---	---
16	30.3	29.0	29.5	30.6	28.3	29.0	31.6	30.4	31.1	---	---	---
17	29.5	28.6	28.9	30.4	29.3	29.7	30.9	30.0	30.4	---	---	---
18	28.7	27.5	28.2	30.8	29.6	30.1	30.5	29.4	29.7	---	---	---
19	27.5	26.7	27.1	30.8	30.0	30.4	30.4	28.9	29.4	---	---	---
20	26.7	25.4	25.9	31.4	29.9	30.6	31.2	29.0	29.6	28.0	26.5	27.0
21	25.9	24.7	25.3	31.4	30.2	30.7	31.4	29.3	30.2	27.3	26.6	27.0
22	26.4	24.8	25.6	31.7	30.5	31.0	31.3	30.4	30.7	26.9	26.2	26.6
23	27.2	25.9	26.4	31.7	30.4	30.9	31.1	30.2	30.8	28.2	26.0	26.6
24	27.4	26.0	26.5	31.1	30.0	30.5	30.2	29.2	29.7	27.6	26.8	27.2
25	26.8	26.1	26.4	31.4	29.7	30.2	29.2	28.2	28.7	27.2	26.6	26.8
26	26.5	26.1	26.3	32.0	30.1	30.4	28.2	27.4	27.8	27.0	26.1	26.6
27	27.6	26.1	26.6	32.1	30.4	31.0	27.8	27.1	27.5	27.2	26.5	26.7
28	27.6	26.8	27.2	31.9	30.6	31.3	28.1	27.0	27.5	26.7	25.9	26.3
29	27.2	26.6	27.0	31.2	29.6	30.3	28.6	27.4	28.0	26.4	25.6	25.9
30	28.9	26.4	27.0	29.6	29.0	29.2	29.7	27.8	28.3	26.1	24.8	25.3
31	---	---	---	29.1	28.4	28.7	29.7	28.5	29.0	---	---	---
MONTH	30.3	21.1	26.0	32.1	27.4	29.7	32.2	27.0	29.3	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.1	23.6	23.8	18.0	17.5	17.7	13.0	12.6	12.7	5.0	4.7	4.8
2	24.2	23.7	23.9	18.4	17.8	18.0	12.8	11.9	12.3	5.1	4.9	5.0
3	24.3	23.9	24.1	19.8	18.2	19.0	12.2	11.6	11.9	5.3	5.0	5.2
4	24.2	23.8	24.0	19.2	18.8	19.0	12.0	11.1	11.8	5.6	5.2	5.4
5	24.1	23.4	23.8	19.1	18.1	18.5	11.9	11.2	11.7	6.6	5.5	5.7
6	23.4	22.2	22.7	18.4	17.2	17.7	11.8	11.5	11.6	9.2	6.0	6.6
7	22.2	21.7	21.8	17.4	16.9	17.1	12.4	11.6	11.9	9.4	6.7	7.7
8	21.7	21.2	21.4	17.0	16.3	16.8	12.9	12.3	12.7	9.2	7.0	7.7
9	21.6	21.1	21.3	16.3	15.0	15.6	13.2	12.7	12.8	9.0	7.9	8.4
10	22.3	21.3	21.7	15.0	14.0	14.5	14.4	12.9	13.7	9.1	8.3	8.6
11	22.1	21.1	21.4	14.4	13.9	14.1	14.6	13.7	14.3	9.0	8.5	8.7
12	21.4	20.7	21.0	14.8	14.1	14.6	13.7	12.6	13.1	9.1	8.6	8.8
13	21.2	20.7	21.0	14.9	13.8	14.4	12.6	11.7	12.2	11.2	8.9	9.3
14	21.0	20.7	20.9	13.8	12.7	13.1	11.8	10.0	10.9	12.6	9.0	10.9
15	20.9	19.8	20.4	12.9	11.9	12.2	10.9	8.7	9.7	11.8	10.6	11.2
16	19.8	18.8	19.2	12.2	11.5	11.7	9.7	9.1	9.5	10.6	9.5	9.9
17	18.8	18.2	18.4	12.5	11.4	11.8	9.7	8.7	9.1	9.5	7.4	8.4
18	18.5	18.0	18.2	12.0	11.8	11.9	9.2	8.4	8.8	7.6	5.4	6.4
19	19.5	18.4	18.9	12.3	12.0	12.2	8.9	8.4	8.7	6.2	4.9	5.8
20	19.8	19.2	19.6	12.6	12.2	12.4	8.8	6.1	7.0	5.0	4.1	4.6
21	19.7	19.4	19.6	12.8	12.5	12.6	6.2	5.1	5.7	5.0	4.3	4.8
22	19.6	18.5	19.0	13.0	12.7	12.9	6.1	5.2	5.6	5.3	4.3	5.0
23	18.5	17.7	18.1	13.3	13.0	13.1	6.9	5.8	6.3	4.4	2.7	3.6
24	17.9	16.9	17.3	13.8	13.2	13.3	7.2	6.7	7.0	2.7	1.7	2.2
25	17.6	16.7	17.1	15.0	13.4	14.3	6.8	5.8	6.3	2.8	1.3	2.1
26	16.8	15.6	16.4	14.4	11.9	13.3	5.8	5.0	5.4	3.2	2.4	2.7
27	16.7	16.4	16.6	13.0	12.0	12.6	5.1	3.4	4.4	3.8	2.7	3.2
28	16.8	16.6	16.7	13.3	12.6	13.0	4.7	4.2	4.4	2.7	2.0	2.3
29	16.9	16.7	16.8	13.0	12.5	12.8	4.9	4.3	4.6	2.6	1.7	2.0
30	17.6	16.7	16.9	12.8	12.5	12.6	4.9	4.5	4.7	2.8	2.3	2.5
31	17.9	17.0	17.4	---	---	---	4.8	4.6	4.7	3.3	2.6	3.0
MONTH	24.3	15.6	20.0	19.8	11.4	14.4	14.6	3.4	9.2	12.6	1.3	5.9
		FEBRUARY			MARCH			APRIL			MAY	
1	3.4	3.0	3.2	8.6	7.8	8.3	15.7	14.6	15.0	18.3	17.8	18.1
2	3.5	3.0	3.3	8.0	7.1	7.4	16.2	15.3	15.8	18.6	17.8	18.1
3	3.6	3.2	3.4	7.2	6.6	6.9	15.7	14.3	14.8	18.3	17.5	18.0
4	4.1	3.6	3.8	7.1	6.5	6.8	15.2	14.0	14.4	18.9	17.8	18.3
5	4.5	3.6	4.0	8.2	6.8	7.2	15.2	14.4	15.0	18.7	18.0	18.3
6	4.5	4.1	4.3	8.2	7.1	7.6	15.0	14.8	14.9	18.0	15.5	16.8
7	4.7	4.4	4.5	8.8	7.6	8.3	17.4	14.9	15.9	16.2	14.1	15.4
8	4.7	4.6	4.6	9.9	8.8	9.4	17.3	16.6	16.8	16.9	15.6	16.2
9	4.8	4.6	4.7	9.0	7.1	8.2	17.3	16.2	17.0	17.1	16.7	16.9
10	7.6	4.7	6.0	9.3	7.6	8.4	16.2	15.4	15.8	17.3	16.7	16.9
11	7.1	6.5	6.7	9.5	8.6	9.0	16.5	16.0	16.1	17.1	16.7	16.9
12	6.6	5.6	6.2	9.5	8.6	9.1	16.1	15.5	15.9	18.0	16.8	17.0
13	6.6	6.2	6.5	10.1	9.2	9.4	15.5	14.2	14.8	18.9	17.1	17.8
14	7.0	6.3	6.5	9.9	9.5	9.7	14.2	13.6	13.9	18.8	18.3	18.6
15	6.8	6.4	6.6	10.0	9.4	9.7	13.8	12.1	12.9	20.8	18.3	19.2
16	8.5	6.5	6.8	9.9	9.0	9.6	12.1	11.4	11.7	20.8	19.8	20.4
17	9.4	7.7	8.7	9.0	7.8	8.5	11.8	11.0	11.4	20.8	19.8	20.4
18	9.4	8.5	9.0	8.6	7.7	8.1	12.3	11.7	11.9	21.1	20.5	20.7
19	9.1	8.1	8.5	8.8	8.0	8.4	13.2	11.8	12.2	21.2	20.7	20.8
20	8.3	7.9	8.1	8.7	8.4	8.5	13.2	11.9	12.3	21.4	20.8	21.1
21	9.0	7.8	8.3	9.6	8.5	8.9	14.9	12.2	13.5	21.1	20.0	20.5
22	9.2	8.7	8.9	9.8	8.6	9.1	17.6	13.4	15.6	21.2	20.1	20.7
23	9.2	8.7	9.0	11.8	9.6	11.1	18.5	17.1	18.0	21.5	20.4	20.8
24	9.2	9.0	9.2	12.5	11.6	12.0	18.1	15.7	17.0	21.4	20.9	21.1
25	9.0	8.1	8.6	12.6	12.0	12.3	15.9	15.4	15.6	21.2	19.4	20.3
26	8.5	8.1	8.4	12.7	12.2	12.3	15.8	15.4	15.6	20.5	19.1	19.7
27	8.5	8.0	8.3	12.7	12.3	12.5	16.5	15.7	15.9	21.4	20.0	20.2
28	8.5	7.9	8.2	13.8	12.4	13.2	16.3	15.6	15.8	22.1	20.7	21.2
29	---	---	---	14.2	13.3	13.7	17.1	15.8	16.4	23.3	21.6	21.9
30	---	---	---	14.4	13.9	14.1	18.3	16.7	17.3	23.2	22.1	22.8
31	---	---	---	15.1	14.0	14.5	---	---	---	23.1	22.6	22.8
MONTH	9.4	3.0	6.6	15.1	6.5	9.7	18.5	11.0	15.0	23.3	14.1	19.3

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.8	22.0	22.3	27.6	26.0	26.5	29.4	28.5	29.1	29.3	28.2	28.7
2	22.0	21.1	21.4	28.6	26.5	27.2	29.1	28.9	29.0	28.6	28.3	28.5
3	21.4	21.1	21.2	28.6	26.6	27.4	29.0	28.8	29.0	29.2	28.4	28.6
4	21.7	21.1	21.3	27.9	27.4	27.7	29.0	28.9	28.9	28.6	27.7	28.2
5	21.6	21.2	21.3	28.5	27.6	27.8	28.9	28.8	28.9	27.7	26.8	27.2
6	21.7	21.4	21.5	29.8	27.8	28.3	28.9	28.4	28.7	26.8	25.8	26.3
7	22.3	21.4	21.5	29.4	27.7	28.2	28.8	28.6	28.7	26.1	25.6	25.8
8	22.4	21.4	21.9	29.8	28.3	29.4	28.8	28.6	28.8	25.8	25.2	25.5
9	22.4	21.5	21.8	29.8	29.2	29.5	28.9	28.5	28.7	25.7	25.3	25.5
10	24.2	21.6	22.3	29.4	29.0	29.3	28.7	28.4	28.6	25.6	24.9	25.3
11	24.2	22.4	23.2	29.9	28.7	29.3	28.6	28.3	28.5	---	---	---
12	26.2	22.5	23.3	30.1	29.1	29.7	28.7	28.3	28.5	---	---	---
13	26.2	23.2	24.9	30.0	28.8	29.4	28.8	28.2	28.5	---	---	---
14	27.4	23.3	25.7	28.9	28.5	28.6	28.8	28.2	28.5	---	---	---
15	28.7	26.4	27.6	28.8	28.1	28.4	30.0	28.2	28.9	---	---	---
16	29.7	26.6	28.4	29.1	28.2	28.4	29.6	28.5	28.9	---	---	---
17	29.0	28.1	28.5	29.7	28.6	29.0	30.4	28.7	29.6	---	---	---
18	28.3	27.4	27.8	30.7	28.8	29.8	29.5	28.7	29.1	---	---	---
19	27.4	26.7	27.2	30.7	29.7	30.1	29.6	29.2	29.4	---	---	---
20	26.7	25.4	25.9	31.2	29.9	30.4	29.4	29.2	29.4	26.4	25.8	26.0
21	25.4	24.4	24.8	30.9	30.1	30.4	29.4	29.2	29.3	27.0	25.9	26.3
22	25.9	24.8	25.2	30.8	30.1	30.4	30.3	29.1	29.5	26.3	26.0	26.1
23	26.0	25.1	25.5	30.8	29.6	30.1	29.8	29.0	29.3	26.2	26.1	26.2
24	26.1	25.4	25.6	30.4	30.0	30.2	29.6	29.2	29.4	27.1	26.1	26.3
25	25.8	25.4	25.6	30.1	29.8	30.0	29.5	29.2	29.4	26.6	26.3	26.4
26	26.3	25.5	26.0	30.1	29.6	29.8	29.2	28.9	29.1	26.8	26.2	26.5
27	27.0	25.9	26.2	29.8	29.4	29.6	29.1	28.8	29.0	26.7	26.2	26.5
28	27.2	26.4	26.9	29.8	29.4	29.5	28.9	28.6	28.8	26.6	25.8	26.1
29	27.1	26.6	26.9	29.9	29.4	29.6	28.7	28.4	28.6	26.2	25.7	25.9
30	26.7	26.2	26.4	29.7	29.4	29.5	28.7	28.5	28.6	26.1	24.8	25.3
31	---	---	---	29.5	29.2	29.4	29.5	28.4	28.7	---	---	---
MONTH	29.7	21.1	24.6	31.2	26.0	29.1	30.4	28.2	28.9	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	6.4	6.8	9.2	8.2	8.6	---	---	---	12.4	11.5	11.8
2	7.6	6.6	7.0	9.1	8.0	8.5	---	---	---	12.1	11.1	11.6
3	8.0	6.6	7.0	8.6	7.9	8.2	10.1	9.4	9.7	11.9	10.7	11.5
4	7.5	6.5	7.0	8.3	7.9	8.0	10.4	9.4	10	11.7	10.8	11.4
5	7.5	6.6	7.0	8.6	7.9	8.2	10.6	9.8	10.2	11.7	11.0	11.3
6	7.8	7.1	7.4	8.8	8.2	8.5	10.6	9.6	10.1	11.2	10.3	10.8
7	8.2	7.0	7.6	9.0	8.3	8.6	10.3	9.5	10	10.5	10.0	10.3
8	8.6	7.5	8.0	8.9	8.4	8.6	10.1	9.4	9.7	10.4	9.8	10.1
9	8.3	7.6	7.8	9.1	8.7	8.9	10.0	9.4	9.8	10.1	9.5	9.8
10	8.6	7.8	8.2	---	---	---	9.7	9.0	9.2	10.4	9.7	10.0
11	8.4	7.5	7.9	---	---	---	9.3	9.0	9.1	10.6	9.8	10.1
12	8.2	7.4	7.8	---	---	---	9.7	9.0	9.3	10.9	9.4	10.3
13	8.1	7.4	7.6	---	---	---	9.8	9.3	9.6	---	---	---
14	7.8	7.3	7.5	---	---	---	10.3	9.6	10	---	---	---
15	7.9	7.1	7.5	---	---	---	11.3	9.8	10.4	---	---	---
16	8.2	7.8	8.0	---	---	---	11.2	9.9	10.3	---	---	---
17	8.6	8.1	8.3	---	---	---	11.1	9.9	10.6	---	---	---
18	8.9	7.9	8.3	---	---	---	11.6	10.4	11.0	---	---	---
19	8.7	8.0	8.3	---	---	---	11.3	9.9	10.7	---	---	---
20	8.3	7.8	8.1	---	---	---	11.5	10.5	11.1	---	---	---
21	8.2	7.6	7.9	---	---	---	11.7	11.1	11.4	---	---	---
22	8.3	7.7	8.0	---	---	---	11.9	11.2	11.6	---	---	---
23	8.7	7.9	8.3	---	---	---	11.8	11.2	11.6	---	---	---
24	8.6	8.1	8.5	---	---	---	11.4	11.0	11.2	---	---	---
25	8.8	8.2	8.4	---	---	---	11.5	11.0	11.2	---	---	---
26	9.3	8.2	8.7	---	---	---	11.9	11.1	11.5	---	---	---
27	9.7	8.7	9.1	---	---	---	12.5	11.6	11.9	12.0	11.7	11.9
28	9.6	8.8	9.3	---	---	---	12.5	11.9	12.2	12.2	11.8	12.1
29	9.3	8.6	8.9	---	---	---	12.6	12.1	12.4	12.3	12.1	12.2
30	9.5	8.6	9.0	---	---	---	12.5	11.9	12.2	12.3	12.1	12.2
31	9.1	8.3	8.7	---	---	---	12.7	11.8	12.2	12.2	12.0	12.1
MONTH	9.7	6.4	8.0	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	12.2	12.1	12.2	---	---	---	11.9	9.4	9.9	8.7	8.3	8.5
2	12.4	12.1	12.2	---	---	---	9.5	8.9	9.2	9.4	8.2	8.5
3	12.4	12.1	12.2	---	---	---	9.6	9.0	9.3	8.8	8.0	8.2
4	12.3	11.9	12.0	---	---	---	10.0	9.2	9.6	---	---	---
5	---	---	---	---	---	---	11.7	9.3	9.9	---	---	---
6	---	---	---	---	---	---	10.3	8.9	9.7	---	---	---
7	---	---	---	---	---	---	10.0	8.2	9.3	---	---	---
8	---	---	---	---	---	---	9.9	8.6	9.2	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	10.8	10.2	10.5	---	---	---	---	---	---
11	---	---	---	10.9	10.4	10.7	---	---	---	---	---	---
12	---	---	---	10.6	10.3	10.4	---	---	---	8.3	7.4	7.9
13	---	---	---	11.1	10.0	10.4	---	---	---	8.1	7.5	7.7
14	---	---	---	10.5	10.1	10.3	---	---	---	7.7	7.3	7.5
15	---	---	---	11.0	10.1	10.5	---	---	---	7.5	7.1	7.3
16	---	---	---	10.8	10.2	10.5	---	---	---	7.6	7.3	7.4
17	---	---	---	10.8	10.3	10.5	---	---	---	8.0	7.3	7.6
18	---	---	---	11.2	10.6	10.9	---	---	---	8.1	7.3	7.5
19	---	---	---	11.3	10.7	11.0	---	---	---	7.9	7.0	7.5
20	---	---	---	11.6	10.7	11.0	---	---	---	---	---	---
21	---	---	---	11.3	10.8	11.1	11.3	10.3	10.7	---	---	---
22	---	---	---	11.4	10.8	11.0	10.9	8.9	10	---	---	---
23	---	---	---	10.8	10.0	10.4	9.1	8.8	8.9	---	---	---
24	---	---	---	11.0	9.9	10.2	9.2	8.7	8.9	---	---	---
25	---	---	---	10.6	10.0	10.3	9.5	8.9	9.2	---	---	---
26	---	---	---	10.6	9.9	10.2	9.4	9.1	9.3	---	---	---
27	---	---	---	10.5	10.0	10.3	9.8	9.0	9.2	8.4	7.6	7.9
28	---	---	---	10.3	9.4	9.9	9.9	8.9	9.4	8.1	7.3	7.6
29	---	---	---	10.0	9.0	9.7	9.6	8.6	9.1	8.4	7.2	7.7
30	---	---	---	10.9	9.4	9.8	8.9	8.4	8.7	8.1	7.2	7.7
31	---	---	---	10.2	9.6	9.9	---	---	---	7.7	6.9	7.4
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.0	7.2	---	---	---	5.7	5.3	5.5	7.5	5.5	6.6
2	7.6	6.9	7.4	---	---	---	---	---	---	9.9	5.5	7.2
3	8.5	7.1	7.5	---	---	---	---	---	---	8.6	6.3	7.2
4	8.3	6.4	7.4	---	---	---	4.8	0.6	3.4	6.7	5.4	6.0
5	7.6	4.6	6.4	---	---	---	2.6	0.3	1.1	6.8	5.6	6.2
6	6.8	5.4	6.2	---	---	---	5.8	1.6	3.2	6.9	5.8	6.4
7	6.7	4.2	5.8	---	---	---	6.0	3.8	4.8	6.8	5.9	6.3
8	6.8	4.4	6.0	6.5	5.6	6.1	5.1	3.8	4.6	7.4	5.5	6.5
9	---	---	---	7.2	5.4	6.2	6.1	2.9	4.9	8.0	6.6	6.9
10	---	---	---	7.6	5.9	6.4	5.0	4.3	4.6	7.1	5.9	6.6
11	---	---	---	7.7	6.2	6.7	5.8	4.6	5.1	---	---	---
12	---	---	---	6.4	5.5	5.9	5.7	5.1	5.4	---	---	---
13	---	---	---	6.0	5.4	5.6	6.2	4.4	5.4	---	---	---
14	---	---	---	5.8	4.9	5.3	6.3	5.1	5.6	---	---	---
15	---	---	---	5.6	4.9	5.2	6.2	5.4	5.7	---	---	---
16	5.9	5.2	5.6	7.1	5.4	5.9	5.8	4.4	5.3	---	---	---
17	5.7	5.1	5.5	6.4	5.7	6.1	5.8	4.4	5.3	---	---	---
18	5.4	4.8	5.1	6.5	5.7	6.2	5.7	5.1	5.4	---	---	---
19	5.6	4.5	5.0	6.5	5.8	6.1	6.0	4.9	5.3	---	---	---
20	6.5	4.8	5.8	5.9	5.5	5.7	6.7	3.5	5.2	8.1	5.8	6.4
21	6.9	5.8	6.4	5.8	5.0	5.5	6.8	4.5	5.7	6.7	5.3	6.2
22	7.1	6.1	6.6	5.6	5.2	5.4	6.7	5.5	6.0	6.4	5.6	6.0
23	7.7	6.7	7.1	5.6	5.1	5.3	7.1	4.8	6.2	8.3	5.0	5.9
24	---	---	---	5.4	5.2	5.3	5.7	4.8	5.2	6.9	5.8	6.3
25	---	---	---	5.9	4.0	5.2	5.8	4.9	5.3	7.0	5.1	5.9
26	---	---	---	6.3	5.0	5.4	6.1	5.1	5.5	6.5	5.5	6.0
27	---	---	---	5.9	3.1	4.9	6.2	5.2	5.7	6.8	5.2	6.0
28	6.9	6.0	6.4	5.5	3.1	5.1	6.2	4.4	5.7	6.7	5.6	6.0
29	6.7	5.9	6.4	5.9	2.6	5.3	6.8	4.9	6.0	6.4	5.0	5.7
30	---	---	---	---	---	---	9.5	0.6	5.7	6.3	5.5	6.0
31	---	---	---	6.0	5.3	5.5	7.2	5.6	6.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	5.1	6.2	7.8	4.6	6.4	9.5	8.5	9.1	---	---	---
2	6.8	5.7	6.3	7.8	5.6	6.3	9.6	8.9	9.1	---	---	---
3	6.9	5.6	6.3	8.1	5.6	7.2	9.7	8.8	9.5	---	---	---
4	6.8	6.0	6.5	8.1	7.5	7.8	9.9	9.2	9.5	---	---	---
5	7.7	5.8	7.0	8.4	7.7	8.0	9.5	8.8	9.1	---	---	---
6	7.8	7.1	7.4	8.6	7.9	8.2	9.1	8.3	8.7	---	---	---
7	8.2	7.1	7.5	8.9	7.8	8.4	9.8	8.0	9.0	---	---	---
8	8.0	7.3	7.7	8.8	8.0	8.5	9.6	8.9	9.3	---	---	---
9	8.0	6.9	7.4	9.0	8.4	8.8	9.3	8.9	9.1	---	---	---
10	8.4	6.8	7.3	9.2	8.6	9.0	9.4	8.6	9.2	---	---	---
11	8.4	6.6	7.8	9.0	8.4	8.8	9.4	9.2	9.3	---	---	---
12	8.0	7.4	7.6	8.9	7.4	8.3	9.8	9.3	9.5	---	---	---
13	7.9	6.8	7.4	9.0	7.3	8.5	10.0	9.6	9.8	---	---	---
14	7.9	7.4	7.6	9.2	8.6	8.9	10.4	9.8	10.0	---	---	---
15	8.1	7.1	7.7	9.2	8.6	8.9	10.8	9.9	10.4	---	---	---
16	9.0	8.0	8.3	9.3	8.9	9.0	10.6	10.2	10.4	---	---	---
17	9.0	7.7	8.5	9.2	7.6	8.7	10.7	10.0	10.3	---	---	---
18	9.2	7.5	8.7	8.8	8.3	8.5	10.9	10.0	10.4	---	---	---
19	9.1	7.9	8.2	8.4	7.7	8.1	---	---	---	---	---	---
20	8.2	7.7	7.9	8.1	7.5	7.8	---	---	---	---	---	---
21	7.8	7.5	7.6	8.3	7.1	7.5	---	---	---	---	---	---
22	8.0	7.3	7.7	7.4	6.7	7.0	---	---	---	---	---	---
23	8.3	7.8	8.0	7.4	6.6	6.8	---	---	---	---	---	---
24	8.4	8.0	8.2	7.1	5.5	6.4	---	---	---	---	---	---
25	8.3	7.5	8.0	8.6	5.7	7.4	---	---	---	---	---	---
26	8.7	8.1	8.4	9.3	8.4	8.8	---	---	---	---	---	---
27	8.5	7.8	8.0	9.2	8.4	9.0	---	---	---	12.2	11.7	12.0
28	8.0	7.6	7.8	9.2	8.7	9.0	---	---	---	12.4	12.0	12.2
29	7.9	6.8	7.4	9.4	9.0	9.2	---	---	---	12.4	12.1	12.3
30	8.3	6.0	6.8	9.2	8.5	8.9	---	---	---	12.4	12.0	12.2
31	8.1	5.4	7.3	---	---	---	---	---	---	12.4	12.1	12.3
MONTH	9.2	5.1	7.6	9.4	4.6	8.1	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	12.3	11.7	12.1	10.1	9.9	10.1	9.8	7.7	9.2	8.4	7.9	8.2
2	12.2	11.5	11.8	10.4	10.1	10.3	9.3	8.8	9.0	8.1	6.8	7.5
3	11.9	11.3	11.7	10.9	10.3	10.5	9.4	8.9	9.1	8.3	6.7	7.8
4	12.0	11.6	11.8	10.8	10.2	10.6	9.6	8.9	9.3	---	---	---
5	12.1	11.3	11.8	11.0	10.3	10.7	9.5	8.7	9.1	---	---	---
6	11.7	11.2	11.5	10.9	9.8	10.5	8.7	7.3	8.0	---	---	---
7	11.6	11.3	11.5	10.9	9.8	10.4	9.2	6.3	7.9	---	---	---
8	11.4	10.8	11.1	10.5	9.8	10.1	8.9	7.8	8.3	---	---	---
9	11.3	10.2	10.8	10.8	9.7	10.2	8.7	7.8	8.4	---	---	---
10	11.8	10.1	10.9	11.1	9.9	10.5	9.0	8.5	8.7	---	---	---
11	11.3	11.0	11.1	11.1	10.5	10.8	9.2	8.2	8.6	---	---	---
12	11.3	10.9	11.1	10.8	10.4	10.6	8.9	7.8	8.3	6.4	5.2	5.8
13	11.2	10.6	11.0	10.8	10.0	10.4	9.1	8.6	8.9	6.8	4.4	5.0
14	11.1	10.2	10.8	10.8	10.3	10.6	9.6	9.0	9.3	6.6	3.8	5.1
15	10.8	9.9	10.4	10.7	9.6	10.2	9.9	9.4	9.7	7.2	3.4	5.0
16	10.8	9.9	10.2	10.8	9.5	10.1	10.3	9.8	10.1	7.4	4.5	6.3
17	10.9	10.0	10.6	10.9	10.6	10.7	10.4	9.6	10.1	7.5	4.4	6.3
18	10.9	10.2	10.7	11.1	10.0	10.8	10.1	9.2	9.6	7.6	5.1	6.3
19	10.7	10.2	10.5	10.9	10.0	10.4	10.1	8.2	9.1	7.5	5.0	5.9
20	10.6	9.9	10.3	10.8	9.4	10.1	9.5	6.9	8.1	---	---	---
21	10.5	9.2	10.1	10.9	8.8	9.9	9.2	6.0	7.5	---	---	---
22	10.4	9.4	9.9	10.4	8.8	9.3	9.1	6.4	8.0	---	---	---
23	10.1	9.0	9.4	10.6	9.3	10.2	9.1	8.1	8.4	---	---	---
24	10.2	9.2	9.9	10.2	9.7	9.9	8.7	8.0	8.3	---	---	---
25	10.3	9.7	10.0	10.2	9.1	9.6	8.9	8.1	8.5	---	---	---
26	10.1	9.5	9.7	10.2	8.6	9.6	8.9	8.2	8.6	---	---	---
27	10.3	9.2	9.6	9.9	8.5	9.2	9.0	8.0	8.5	7.9	6.6	7.2
28	10.3	10.0	10.2	9.8	7.9	9.2	8.8	8.2	8.5	8.0	6.3	7.2
29	---	---	---	9.9	9.4	9.6	9.1	7.4	8.3	7.9	5.9	6.7
30	---	---	---	9.8	8.5	9.3	8.7	8.2	8.4	7.6	5.3	6.8
31	---	---	---	10.0	8.2	9.3	---	---	---	7.6	6.5	7.2
MONTH	12.3	9.0	10.7	11.1	7.9	10.1	10.4	6.0	8.7	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	4.1	6.5	---	---	---	2.5	0.1	1.0	7.0	2.2	5.5
2	7.6	4.2	7.1	---	---	---	1.6	0.2	0.5	4.5	0.2	1.5
3	7.3	4.6	6.5	---	---	---	0.7	0.1	0.4	5.9	0.0	2.5
4	6.5	3.8	4.9	---	---	---	0.3	0.0	0.1	6.4	0.3	4.5
5	5.0	3.2	3.9	---	---	---	0.4	0.1	0.1	6.9	5.6	6.2
6	3.7	2.6	3.2	---	---	---	0.9	0.1	0.2	6.9	5.8	6.4
7	3.1	1.1	2.0	---	---	---	0.9	0.2	0.3	6.8	5.9	6.3
8	2.8	0.5	1.4	6.2	2.8	5.5	1.3	0.1	0.2	6.5	4.9	5.9
9	1.0	0.1	0.5	6.0	3.7	5.0	0.5	0.1	0.1	5.7	3.7	4.4
10	3.1	0.1	0.7	5.4	3.0	4.1	0.8	0.0	0.1	6.3	4.1	5.5
11	2.7	0.2	1.2	5.4	2.6	3.8	1.6	0.0	0.2	---	---	---
12	4.6	0.1	0.9	5.8	1.8	4.3	1.4	0.0	0.2	---	---	---
13	6.0	0.5	3.2	5.6	4.7	5.3	0.9	0.0	0.1	---	---	---
14	6.1	0.1	3.8	5.4	3.9	4.9	0.3	0.0	0.0	---	---	---
15	6.1	3.5	5.0	5.4	4.7	5.0	2.4	0.0	0.6	---	---	---
16	6.2	3.0	4.9	5.4	4.3	5.0	2.2	0.0	0.5	---	---	---
17	5.9	4.0	5.3	6.1	3.6	5.1	5.2	0.1	2.9	---	---	---
18	4.8	2.0	3.7	6.3	3.6	5.3	4.9	0.1	1.4	---	---	---
19	5.8	1.6	3.1	6.4	5.0	5.9	2.4	0.2	0.9	---	---	---
20	6.5	5.1	6.0	5.9	4.8	5.5	1.2	0.0	0.3	4.0	1.9	3.0
21	6.5	5.6	6.1	5.6	3.8	4.9	0.2	0.0	0.0	6.2	1.5	3.1
22	6.7	5.8	6.3	5.1	3.0	4.3	5.0	0.0	1.5	4.6	0.8	2.0
23	6.8	5.0	5.8	4.8	3.1	4.0	1.5	0.0	0.2	3.2	0.4	1.4
24	6.3	3.2	4.2	4.0	2.9	3.6	3.0	0.0	0.5	5.0	0.3	1.2
25	4.7	2.9	3.6	3.0	1.9	2.5	0.8	0.0	0.2	5.0	0.5	2.4
26	---	---	---	2.4	1.2	1.9	0.4	0.0	0.1	6.0	1.0	2.9
27	---	---	---	1.7	0.2	0.9	0.2	0.0	0.0	6.0	4.6	5.4
28	---	---	---	1.9	0.2	1.0	0.1	0.0	0.0	6.0	4.7	5.4
29	---	---	---	3.2	0.1	0.6	0.2	0.0	0.0	6.3	4.4	5.3
30	---	---	---	2.9	0.2	0.6	0.1	0.0	0.0	6.6	5.7	6.3
31	---	---	---	1.6	0.1	0.6	7.8	0.0	1.8	---	---	---
MONTH	---	---	---	---	---	---	7.8	0.0	0.5	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	86	76	81	100	88	93	---	---	---	97	90	92
2	92	78	84	100	86	92	---	---	---	95	87	91
3	97	79	84	95	86	90	94	87	91	95	85	91
4	90	78	83	90	85	87	96	87	92	99	87	94
5	89	78	83	93	85	88	97	89	93	101	96	98
6	91	83	87	93	86	90	97	88	93	99	92	96
7	94	80	87	94	86	89	95	89	93	96	90	93
8	99	85	91	92	87	89	97	89	92	95	89	92
9	95	86	89	91	87	89	96	89	93	93	86	90
10	99	89	94	---	---	---	93	86	90	95	88	91
11	95	85	90	---	---	---	91	87	89	97	88	92
12	93	83	88	---	---	---	93	86	89	101	86	94
13	91	83	86	---	---	---	91	87	89	---	---	---
14	88	82	85	---	---	---	93	87	90	---	---	---
15	87	79	83	---	---	---	95	86	90	---	---	---
16	89	84	87	---	---	---	95	86	88	---	---	---
17	92	86	89	---	---	---	94	86	90	---	---	---
18	95	84	88	---	---	---	100	89	94	---	---	---
19	95	85	90	---	---	---	97	86	91	---	---	---
20	91	86	88	---	---	---	94	89	91	---	---	---
21	90	83	86	---	---	---	93	88	91	---	---	---
22	89	83	86	---	---	---	96	89	92	---	---	---
23	92	83	88	---	---	---	96	92	94	---	---	---
24	90	85	88	---	---	---	94	90	93	---	---	---
25	90	85	87	---	---	---	93	89	91	---	---	---
26	95	84	89	---	---	---	93	89	91	---	---	---
27	100	88	93	---	---	---	95	90	92	89	87	88
28	100	91	95	---	---	---	95	90	92	89	87	88
29	95	88	92	---	---	---	97	92	94	90	87	88
30	100	88	94	---	---	---	96	92	94	91	89	90
31	98	87	92	---	---	---	99	91	95	91	88	90
MONTH	100	76	88	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	92	90	91	---	---	---	123	93	99	94	88	91
2	94	90	92	---	---	---	96	89	92	103	88	92
3	93	92	92	---	---	---	94	89	92	95	85	88
4	93	91	92	---	---	---	100	90	94	---	---	---
5	---	---	---	---	---	---	121	92	98	---	---	---
6	---	---	---	---	---	---	106	90	98	---	---	---
7	---	---	---	---	---	---	105	84	96	---	---	---
8	---	---	---	---	---	---	105	90	96	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	93	86	90	---	---	---	---	---	---
11	---	---	---	95	90	92	---	---	---	---	---	---
12	---	---	---	92	88	90	---	---	---	92	81	87
13	---	---	---	100	87	91	---	---	---	91	82	85
14	---	---	---	92	89	90	---	---	---	85	80	82
15	---	---	---	98	88	93	---	---	---	85	78	82
16	---	---	---	96	90	92	---	---	---	87	82	84
17	---	---	---	92	88	90	---	---	---	91	81	86
18	---	---	---	96	89	92	---	---	---	93	82	85
19	---	---	---	98	91	94	---	---	---	90	79	84
20	---	---	---	102	93	96	---	---	---	---	---	---
21	---	---	---	102	95	98	119	106	111	---	---	---
22	---	---	---	104	95	99	115	95	104	---	---	---
23	---	---	---	98	93	95	96	93	95	---	---	---
24	---	---	---	104	92	96	95	91	93	---	---	---
25	---	---	---	100	93	97	96	90	93	---	---	---
26	---	---	---	101	92	96	95	91	94	---	---	---
27	---	---	---	100	94	97	102	91	94	96	84	89
28	---	---	---	98	90	95	105	90	96	92	83	87
29	---	---	---	98	86	93	101	88	95	100	83	90
30	---	---	---	109	91	96	94	89	91	95	85	90
31	---	---	---	101	93	97	---	---	---	91	80	86
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	87	81	84	---	---	---	74	68	71	98	71	86
2	86	79	84	---	---	---	---	---	---	132	71	94
3	99	80	86	---	---	---	---	---	---	113	82	94
4	97	74	86	---	---	---	62	8	44	87	69	77
5	89	53	75	---	---	---	34	4	14	86	71	78
6	82	64	74	---	---	---	78	21	41	86	72	79
7	81	50	70	---	---	---	80	50	64	84	73	77
8	86	54	75	86	73	80	67	50	60	92	67	79
9	---	---	---	97	71	82	81	38	64	99	80	85
10	---	---	---	102	78	85	65	56	60	87	72	80
11	---	---	---	105	83	90	77	60	67	---	---	---
12	---	---	---	86	73	78	77	67	71	---	---	---
13	---	---	---	80	70	73	85	59	73	---	---	---
14	---	---	---	76	63	68	86	68	75	---	---	---
15	---	---	---	73	63	67	85	72	77	---	---	---
16	78	68	74	95	70	77	79	59	72	---	---	---
17	75	66	71	85	76	81	78	59	71	---	---	---
18	70	61	66	88	76	83	76	67	71	---	---	---
19	70	57	63	87	78	82	80	64	69	---	---	---
20	80	60	71	80	73	77	91	46	69	104	73	81
21	85	71	78	78	67	74	92	59	75	85	67	77
22	88	74	82	76	70	73	91	74	81	80	70	75
23	97	83	89	76	68	71	96	64	84	107	62	74
24	---	---	---	73	69	71	76	63	68	88	73	80
25	---	---	---	80	53	69	76	63	68	88	64	74
26	---	---	---	87	67	73	78	65	70	82	68	75
27	---	---	---	81	42	66	79	66	72	86	65	75
28	88	76	81	75	42	69	80	56	73	84	69	74
29	84	74	80	79	34	71	88	63	78	80	62	70
30	---	---	---	---	---	---	125	8	73	77	67	73
31	---	---	---	78	69	72	94	73	83	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	82	60	74	82	48	67	90	80	86	---	---	---
2	81	68	75	83	59	67	89	83	85	---	---	---
3	83	67	75	89	60	78	91	82	88	---	---	---
4	81	72	78	88	81	85	90	85	88	---	---	---
5	91	69	83	90	82	85	87	81	83	---	---	---
6	91	82	86	91	84	86	84	77	80	---	---	---
7	94	81	86	93	81	87	92	74	84	---	---	---
8	91	83	88	91	83	88	90	84	88	---	---	---
9	91	78	84	91	85	88	89	84	86	---	---	---
10	97	77	84	91	85	88	92	82	89	---	---	---
11	95	76	88	88	82	86	93	90	91	---	---	---
12	91	83	86	88	73	82	93	90	91	---	---	---
13	89	76	83	88	72	84	93	90	92	---	---	---
14	89	83	85	88	82	85	94	89	91	---	---	---
15	90	80	86	86	81	84	94	88	91	---	---	---
16	98	87	90	86	82	83	93	90	91	---	---	---
17	96	82	91	85	71	80	92	87	90	---	---	---
18	98	80	93	81	77	79	93	87	90	---	---	---
19	97	84	88	78	72	75	---	---	---	---	---	---
20	89	84	86	76	71	73	---	---	---	---	---	---
21	86	82	83	78	67	71	---	---	---	---	---	---
22	86	80	84	70	64	67	---	---	---	---	---	---
23	88	82	85	70	63	65	---	---	---	---	---	---
24	88	84	86	69	53	61	---	---	---	---	---	---
25	86	78	83	85	55	72	---	---	---	---	---	---
26	90	83	86	88	82	85	---	---	---	---	---	---
27	87	80	82	87	79	85	---	---	---	93	88	90
28	82	78	80	88	82	86	---	---	---	91	88	90
29	82	70	77	89	85	87	---	---	---	90	88	89
30	87	62	70	87	80	84	---	---	---	92	88	90
31	85	57	76	---	---	---	---	---	---	93	90	91
MONTH	98	57	83	93	48	80	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	92	88	91	87	84	86	98	76	91	89	84	87
2	92	86	89	87	84	86	95	89	91	86	72	79
3	90	85	88	90	85	87	92	88	90	88	71	83
4	92	88	90	89	84	87	96	87	91	---	---	---
5	93	87	91	93	85	89	95	86	91	---	---	---
6	90	86	89	93	82	88	86	72	79	---	---	---
7	90	88	89	93	82	89	96	63	80	---	---	---
8	89	84	87	91	85	88	93	81	86	---	---	---
9	88	80	84	94	83	86	89	81	87	---	---	---
10	99	79	88	97	83	90	92	85	88	---	---	---
11	94	90	91	97	90	94	94	83	88	---	---	---
12	92	88	90	94	91	92	89	79	84	67	54	61
13	92	86	89	96	88	92	90	86	88	73	46	53
14	91	83	88	95	91	93	94	87	90	71	41	54
15	89	80	85	94	85	90	94	89	92	81	36	54
16	92	81	84	94	84	89	96	91	93	83	49	70
17	94	84	91	93	91	92	95	89	92	84	48	70
18	95	89	93	95	85	92	94	85	89	85	57	71
19	93	87	90	94	85	89	96	76	85	85	56	66
20	90	84	87	93	80	86	91	64	76	---	---	---
21	91	79	86	96	76	85	91	57	72	---	---	---
22	90	81	86	92	76	81	96	61	80	---	---	---
23	88	78	81	97	82	93	96	85	89	---	---	---
24	89	80	86	96	89	92	90	83	86	---	---	---
25	88	83	86	96	85	90	90	81	86	---	---	---
26	86	81	83	96	81	89	90	83	87	---	---	---
27	87	79	82	93	80	87	92	81	87	90	73	80
28	88	85	86	95	74	88	90	83	86	90	71	81
29	---	---	---	97	90	93	94	75	85	93	67	77
30	---	---	---	96	83	91	92	85	88	89	61	79
31	---	---	---	100	80	92	---	---	---	89	76	84
MONTH	99	78	88	100	74	89	98	57	87	---	---	---

0208455560 PUNGO RIVER AT CHANNEL LIGHT 18—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	85	47	75	---	---	---	32	1	14	92	28	71
2	86	48	80	---	---	---	21	3	7	58	3	20
3	83	52	74	---	---	---	9	1	5	77	0	33
4	74	43	56	---	---	---	4	0	1	83	4	59
5	57	36	44	---	---	---	5	1	2	87	71	79
6	42	29	36	---	---	---	12	1	3	86	72	79
7	35	12	22	---	---	---	12	3	4	84	73	77
8	32	6	16	82	36	73	17	1	3	80	60	72
9	12	1	6	79	48	65	6	1	1	70	45	54
10	37	1	8	71	39	54	10	0	1	77	50	67
11	32	2	15	72	34	50	21	0	3	---	---	---
12	57	1	10	77	24	57	18	0	3	---	---	---
13	74	6	39	74	62	70	12	0	2	---	---	---
14	77	1	48	70	50	64	4	0	0	---	---	---
15	79	44	63	70	61	65	32	0	7	---	---	---
16	82	38	64	71	56	65	29	0	6	---	---	---
17	76	52	68	80	47	67	70	1	38	---	---	---
18	62	25	47	85	47	71	64	1	18	---	---	---
19	73	20	39	86	66	78	32	3	11	---	---	---
20	80	64	75	80	64	74	16	0	3	49	23	37
21	80	67	74	76	51	65	3	0	0	78	19	39
22	83	71	77	68	40	58	67	0	20	57	10	24
23	84	62	72	64	41	53	20	0	3	40	5	18
24	78	39	51	53	39	48	39	0	6	63	4	15
25	58	36	44	40	25	33	10	0	3	63	6	30
26	---	---	---	32	16	25	5	0	2	75	12	37
27	---	---	---	22	3	11	3	0	0	75	57	67
28	---	---	---	25	3	13	1	0	0	75	58	67
29	---	---	---	42	1	8	3	0	0	78	54	65
30	---	---	---	38	3	8	1	0	0	80	70	76
31	---	---	---	21	1	8	102	0	23	---	---	---
MONTH	---	---	---	---	---	---	102	0	6	---	---	---

02084557 VAN SWAMP NEAR HOKE, NC

LOCATION.--Lat 35°43'51", long 76°44'46", Washington County, Hydrologic Unit 03020104, on left bank at upstream side of culvert on State Highway 32, and 4.8 mi east of Hoke.

DRAINAGE AREA.--23 mi^2.

PERIOD OF RECORD.--May 1977 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs periodically. Minimum discharge for current water year also occurred Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e3.2	e3.3	e13	e15	e15	48	68	11	3.8	23	23	0.06
2	e2.9	e3.5	e13	e16	e15	46	69	11	5.9	20	27	0.05
3	e2.6	e4.0	e12	e17	e15	41	80	9.8	11	15	26	0.05
4	e2.4	e4.4	e12	e18	e14	38	75	8.9	12	12	19	0.04
5	e2.2	e4.8	e12	e18	e14	34	69	8.0	11	11	14	0.04
6	e2.0	e5.1	e12	e17	e13	31	64	37	11	15	11	0.03
7	e1.8	e4.9	e12	e18	e12	28	58	90	17	13	8.4	0.02
8	e1.6	e4.6	e12	e18	e12	26	68	89	16	9.9	6.5	0.02
9	e1.4	e4.2	e12	e18	e12	25	78	84	15	8.0	5.6	0.02
10	e1.1	e4.4	e12	e18	11	24	76	76	18	6.3	7.4	0.01
11	e1.0	e5.1	e12	e18	10	22	70	66	15	4.8	6.5	0.01
12	e1.1	e7.0	e12	e17	9.9	21	63	55	12	3.8	4.5	0.02
13	e1.2	e8.5	e12	e17	9.6	20	64	45	10	4.4	3.4	0.03
14	e1.4	e11	e12	e18	9.5	19	74	38	8.2	6.9	2.6	0.06
15	e1.6	e11	e13	e20	11	21	72	32	6.7	6.8	1.9	0.79
16	e1.6	e11	e13	e24	11	21	66	28	5.3	5.5	1.4	1.9
17	e1.6	e12	e13	e26	12	47	60	24	4.2	4.2	1.4	1.2
18	e1.7	e11	e13	e27	11	67	53	20	3.4	3.3	1.2	2.2
19	e1.7	e11	e13	e25	11	66	47	18	2.8	2.7	0.99	3.6
20	e1.9	e11	e12	e22	11	64	41	16	e2.5	2.3	0.82	1.0
21	e2.4	e14	e12	e20	11	61	36	15	e2.1	1.9	0.62	0.68
22	e2.9	e14	e11	e20	11	56	31	14	e1.6	1.7	0.47	0.73
23	e3.3	e14	e12	e21	11	61	27	12	e0.91	2.4	0.34	0.94
24	e3.4	e14	e12	e22	13	81	24	11	e0.52	2.3	0.29	0.76
25	e3.3	e14	e12	e24	18	80	21	10	e0.52	1.8	0.25	0.68
26	e3.5	e13	e12	e23	19	77	19	9.3	e0.46	1.4	0.19	0.54
27	e3.7	e13	e13	e20	18	72	17	8.2	e0.41	1.0	0.19	0.41
28	e3.7	e13	e13	e18	32	74	15	7.1	e0.41	0.79	0.18	0.28
29	e3.8	e13	e13	e16	---	84	14	6.1	e3.3	0.95	0.16	0.32
30	e3.9	e13	e14	e15	---	80	13	5.1	24	8.2	0.17	0.32
31	e3.4	---	e14	e15	---	74	---	4.4	---	12	0.09	---
TOTAL	73.3	276.8	385	601	372.0	1,509	1,532	868.9	225.03	212.34	175.56	16.81
MEAN	2.36	9.23	12.4	19.4	13.3	48.7	51.1	28.0	7.50	6.85	5.66	0.56
MAX	3.9	14	14	27	32	84	80	90	24	23	27	3.6
MIN	1.0	3.3	11	15	9.5	19	13	4.4	0.41	0.79	0.09	0.01
CFSM	0.10	0.40	0.54	0.84	0.58	2.12	2.22	1.22	0.33	0.30	0.25	0.02
IN.	0.12	0.45	0.62	0.97	0.60	2.44	2.48	1.41	0.36	0.34	0.28	0.03

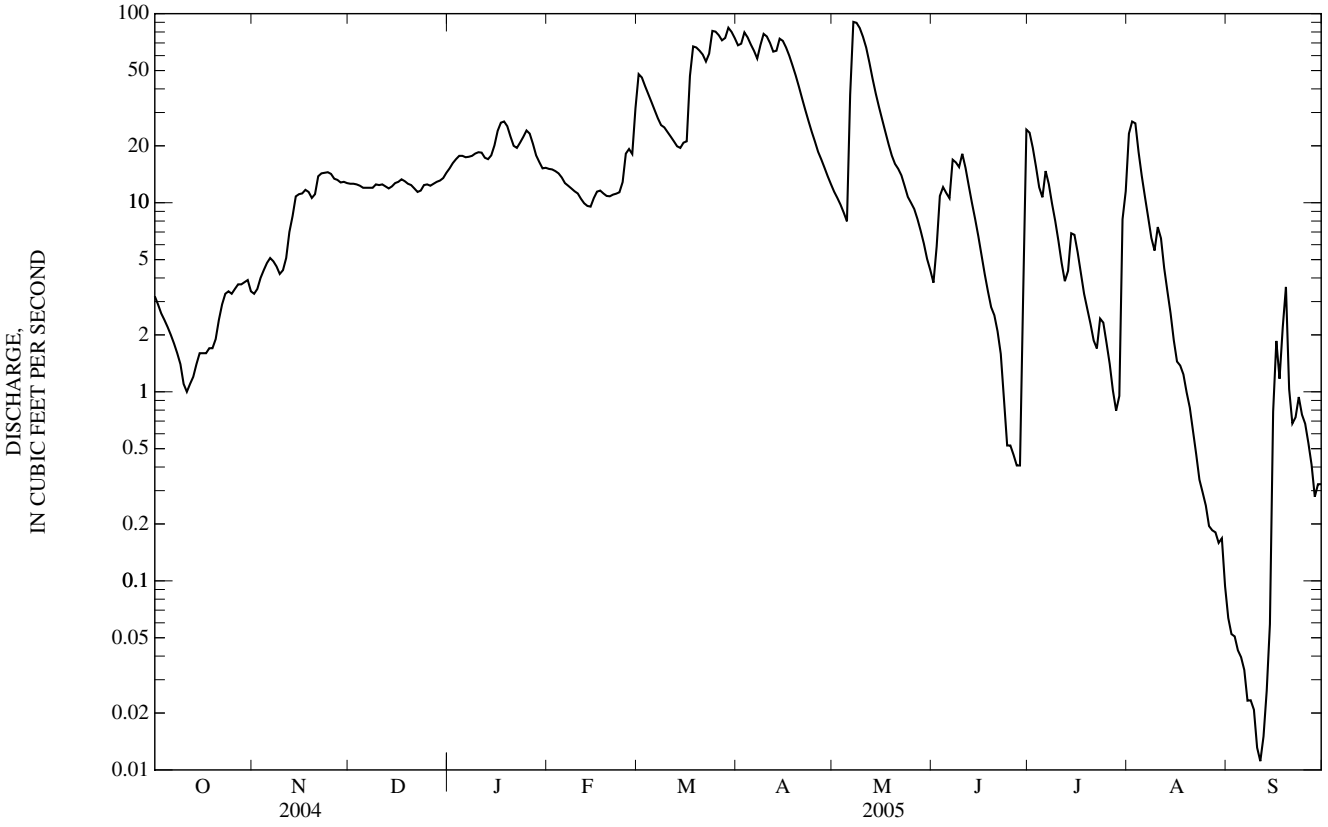
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	18.8	15.8	18.4	39.5	44.4	55.2	40.8	24.8	10.9	6.13	13.9	20.5
MAX	166	121	98.5	124	122	142	101	122	43.8	55.2	74.9	189
(WY)	(2000)	(1978)	(2004)	(1978)	(1998)	(1983)	(1983)	(1978)	(2001)	(1989)	(2003)	(1999)
MIN	0.02	0.01	0.03	0.72	9.76	8.78	4.68	0.58	0.29	0.01	0.00	0.03
(WY)	(1979)	(2002)	(2002)	(1989)	(2002)	(1992)	(1985)	(1985)	(1985)	(1997)	(1997)	(1995)

02084557 VAN SWAMP NEAR HOKE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	8,722.41		6,247.74			
ANNUAL MEAN	23.8		17.1		25.8	
HIGHEST ANNUAL MEAN					51.7	1978
LOWEST ANNUAL MEAN					6.91	2002
HIGHEST DAILY MEAN	177	Aug 16	90	May 7	385	Nov 7, 1977
LOWEST DAILY MEAN	0.32	Jun 3	0.01	Sep 10	0.00	Aug 21, 1983
ANNUAL SEVEN-DAY MINIMUM	1.2	May 29	0.02	Sep 6	0.00	Sep 12, 1985
MAXIMUM PEAK FLOW			93	May 7	409	Nov 6, 1977
MAXIMUM PEAK STAGE			3.06	May 7	7.43	Sep 16, 1999
INSTANTANEOUS LOW FLOW			0.01*	Sep 10	0.00	Oct 1, 1978
ANNUAL RUNOFF (CFSM)	1.04		0.744		1.12	
ANNUAL RUNOFF (INCHES)	14.11		10.11		15.27	
10 PERCENT EXCEEDS	48		55		74	
50 PERCENT EXCEEDS	18		12		9.7	
90 PERCENT EXCEEDS	3.2		0.68		0.14	

* See REMARKS.
e Estimated



02085000 ENO RIVER AT HILLSBOROUGH, NC

LOCATION.--Lat 36°04'16", long 79°05'44", Orange County, Hydrologic Unit 03020201, on left bank 900 ft downstream of bridge on State Highway 86 at Hillsborough, and 2 mi downstream of Sevenmile Creek.

DRAINAGE AREA.--66.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1927 to September 1971, October 1985 to current year.

REVISED RECORD.--WDR NC-96-1: 1945(M).

GAGE.--Water-stage recorder. Datum of gage is 487.44 ft above NGVD of 1929. Telephone and satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Diversions upstream from station of 0.80 ft^3/s by Orange-Alamance Water System, Inc. and 1.8 ft^3/s by town of Hillsborough for municipal supply, part of which is returned downstream of station as treated effluent. Maximum gage height for period of record, 21.13 ft, from high-water mark in gage shelter. No flow for part of Sept. 13, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	14	49	22	77	202	97	69	8.1	7.3	7.4	3.1
2	36	13	44	20	56	109	114	52	15	6.0	5.7	2.4
3	62	14	38	20	78	76	117	36	35	5.2	2.4	1.9
4	34	40	29	20	142	58	84	25	22	5.6	1.2	0.92
5	31	56	25	21	93	51	69	22	15	9.0	5.2	0.84
6	25	34	23	22	67	48	60	28	14	8.3	4.7	0.47
7	19	24	27	21	53	42	55	27	20	7.3	5.0	0.35
8	16	20	26	20	47	147	107	23	36	10	5.5	0.36
9	14	17	24	20	43	120	210	19	24	8.6	20	0.31
10	14	13	830	17	48	79	100	16	118	5.0	12	e0.28
11	12	13	398	17	42	64	75	15	53	3.1	5.5	e0.30
12	12	85	162	16	36	76	63	15	19	1.8	2.8	e0.36
13	37	356	92	21	34	56	71	51	9.7	1.4	3.2	e0.75
14	61	130	61	1,160	39	54	67	21	5.6	3.4	16	e1.0
15	34	69	45	391	57	46	54	16	6.5	8.9	14	e1.7
16	23	44	37	154	49	68	44	17	12	7.7	6.4	e1.8
17	17	33	34	101	41	305	37	13	8.9	5.3	8.7	e1.8
18	14	28	32	72	33	216	35	11	4.9	4.5	5.9	e1.8
19	13	24	31	56	28	123	36	37	5.0	3.9	3.3	e2.0
20	27	21	29	51	28	91	34	87	5.2	3.5	3.7	2.2
21	29	21	23	58	30	72	31	88	4.0	2.8	4.7	3.9
22	24	16	24	53	32	59	30	37	3.4	2.4	2.6	e2.6
23	21	41	35	51	29	95	31	22	3.6	e2.3	3.4	e2.1
24	18	118	57	37	58	139	30	16	3.2	e2.2	8.4	e2.0
25	19	109	40	37	85	96	25	15	2.7	e1.8	3.9	e1.9
26	17	71	33	41	55	77	23	13	2.2	e1.6	2.7	e1.7
27	15	45	27	39	43	66	24	11	13	2.4	4.2	e1.7
28	14	164	23	31	242	412	22	9.9	12	1.4	4.5	e2.1
29	14	102	22	28	---	341	23	9.4	7.2	9.3	3.6	e1.9
30	14	65	23	78	---	162	29	8.7	9.7	9.2	4.0	e1.7
31	15	---	22	115	---	116	---	8.4	---	7.1	4.3	---
TOTAL	728	1,800	2,365	2,810	1,665	3,666	1,797	838.4	497.9	158.3	184.9	46.24
MEAN	23.5	60.0	76.3	90.6	59.5	118	59.9	27.0	16.6	5.11	5.96	1.54
MAX	62	356	830	1,160	242	412	210	88	118	10	20	3.9
MIN	12	13	22	16	28	42	22	8.4	2.2	1.4	1.2	0.28
CFSM	0.36	0.91	1.16	1.37	0.90	1.79	0.91	0.41	0.25	0.08	0.09	0.02
IN.	0.41	1.01	1.33	1.58	0.94	2.07	1.01	0.47	0.28	0.09	0.10	0.03

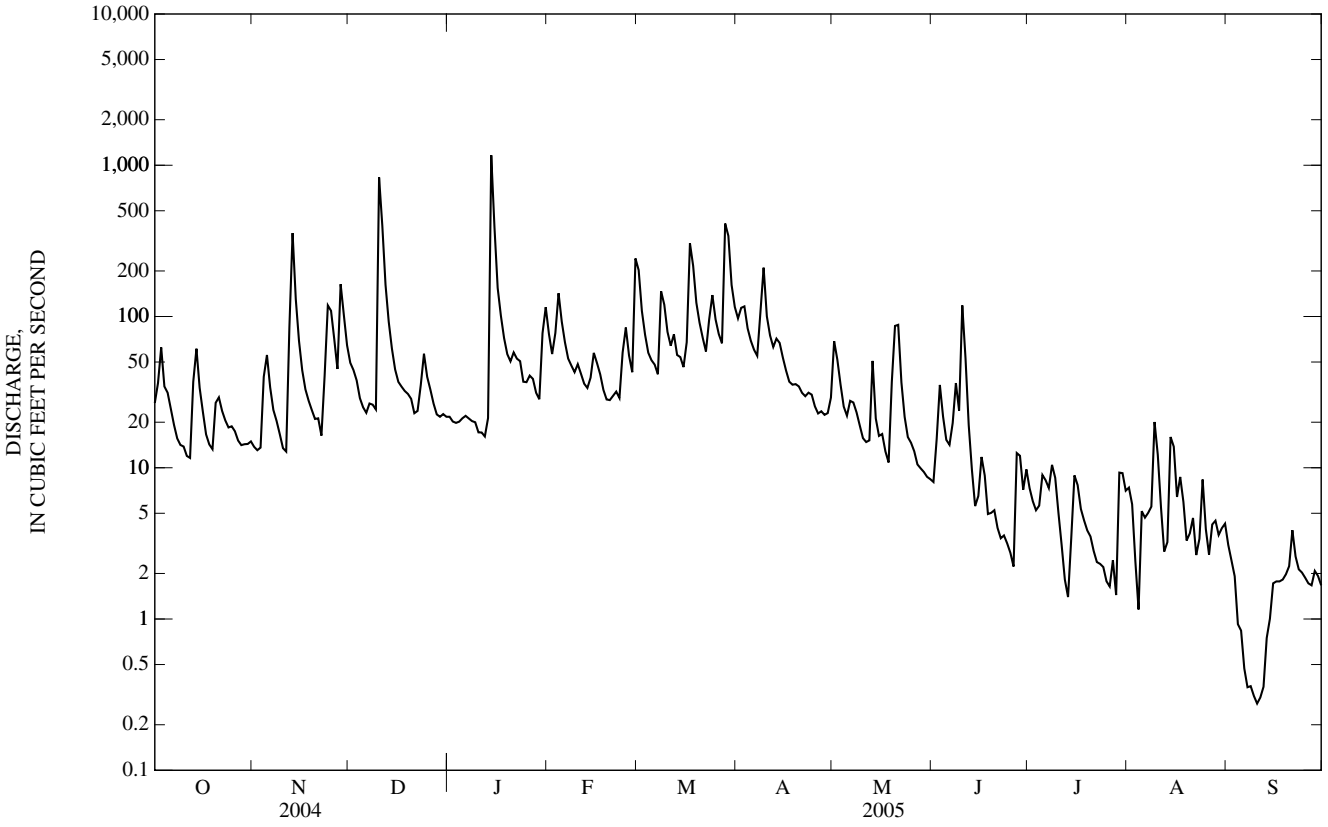
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005,@ BY WATER YEAR (WY)

MEAN	29.2	43.8	56.9	89.1	111	120	95.1	50.9	38.4	37.0	32.7	38.1
MAX	181	213	183	326	311	354	304	175	210	359	256	342
(WY)	(1930)	(1986)	(2003)	(1936)	(1998)	(1998)	(2003)	(2003)	(1995)	(1938)	(1939)	(1945)
MIN	0.63	0.82	3.64	5.16	17.2	22.4	12.4	4.17	1.75	1.28	0.85	0.28
(WY)	(1987)	(1942)	(1942)	(1942)	(2002)	(2002)	(2002)	(2002)	(1986)	(1986)	(1987)	(1954)

02085000 ENO RIVER AT HILLSBOROUGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005[@]	
ANNUAL TOTAL	17,608.9		16,556.74			
ANNUAL MEAN	48.1		45.4		61.6	
HIGHEST ANNUAL MEAN					154	2003
LOWEST ANNUAL MEAN					9.67	2002
HIGHEST DAILY MEAN	830	Dec 10	1,160	Jan 14	4,600	Sep 6, 1996
LOWEST DAILY MEAN	2.2	Jul 15	0.28	Sep 10	0.02	Jul 10, 1986
ANNUAL SEVEN-DAY MINIMUM	2.8	Jul 9	0.35	Sep 6	0.10	Oct 6, 1954
MAXIMUM PEAK FLOW			2,540	Jan 14	10,800	Sep 6, 1996
MAXIMUM PEAK STAGE			13.85	Jan 14	21.13*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	0.729		0.687		0.933	
ANNUAL RUNOFF (INCHES)	9.93		9.33		12.67	
10 PERCENT EXCEEDS	92		95		117	
50 PERCENT EXCEEDS	29		23		26	
90 PERCENT EXCEEDS	6.5		2.4		4.0	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02085000 ENO RIVER AT HILLSBOROUGH, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
OCT													
18...	0945	14	25	753	8.3	82	7.0	100	13.9	32	7.82	3.05	1.93
DEC													
09...	0900	24	40	752	9.2	83	7.3	91	10.3	31	7.36	3.08	1.85
20...	1100	32	--	754	12.5	92	7.0	83	2.5	29	6.67	3.07	1.71
JAN													
26...	1400	39	--	741	12.0	92	7.2	88	3.2	29	6.75	2.89	1.62
FEB													
08...	0900	51	75	755	10.8	88	7.0	90	6.1	27	6.43	2.65	1.71
MAR													
28...	1130	698	150	734	9.8	95	6.5	73	12.4	25	6.00	2.43	1.47
APR													
13...	1115	72	62	745	8.3	83	6.6	83	14.8	29	7.00	2.92	1.27
29...	0830	22	--	749	8.3	83	6.9	97	14.7	31	7.22	3.19	1.19
JUN													
16...	0930	12	30	744	5.0	62	6.6	108	24.9	33	7.72	3.35	1.78
17...	1630	7.6	--	747	4.6	58	7.2	115	26.2	34	7.86	3.54	1.67
AUG													
10...	0900	14	100	750	5.4	66	6.5	92	24.6	27	6.53	2.64	1.84

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
18...	5.57	--	30	37	5.85	E.1	14.5	4.1	62	--	.30	.012	.247
DEC													
09...	5.33	--	29	35	6.49	E.1	13.9	4.3	64	--	.31	.022	.374
20...	5.51	--	31	37	5.87	E.1	--	4.6	--	.28	--	.07	.42
JAN													
26...	6.76	34	--	--	7.84	<.1	--	5.0	--	.26	--	.06	.44
FEB													
08...	6.34	--	35	43	8.10	<.1	12.0	5.3	65	--	.37	.036	.386
MAR													
28...	4.83	--	21	27	5.45	<.1	9.74	4.6	69	--	1.0	.041	.309
APR													
13...	5.70	--	24	29	6.24	E.1	10.3	4.2	65	--	.36	.030	.267
29...	5.65	28	--	--	6.51	E.1	--	4.3	--	.24	--	<.04	.29
JUN													
16...	6.20	--	31	37	6.16	E.1	10.3	4.9	62	--	.37	.047	.277
17...	7.02	30	--	--	6.82	.1	--	5.4	--	.33	--	E.04	.27
AUG													
10...	5.31	--	29	35	5.57	E.1	8.57	4.4	62	--	.42	.044	.147

02085000 ENO RIVER AT HILLSBOROUGH, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)
OCT													
18...	E.001	E.003	.020	6.0	92	<2	<.04	<.8	.324	1.3	690	.18	78
DEC													
09...	.004	E.004	.021	4.7	--	--	--	--	--	--	--	--	--
20...	E.004	<.02	--	--	--	--	--	--	--	--	--	--	--
JAN													
26...	E.005	<.02	--	--	--	--	--	--	--	--	--	--	--
FEB													
08...	.004	<.006	.032	5.8	--	--	--	--	--	--	--	--	--
MAR													
28...	.004	.007	.18	12.5	1,730	<2	E.04	1.6	3.60	5.6	4,060	4.10	625
APR													
13...	.003	<.006	.031	6.5	145	<2	<.04	E.5	.493	1.4	990	.35	140
29...	<.008	<.02	--	--	--	--	--	--	--	--	--	--	--
JUN													
16...	.004	<.006	.027	5.5	--	--	--	--	--	--	--	--	--
17...	E.005	<.02	--	--	--	--	--	--	--	--	--	--	--
AUG													
10...	.003	<.006	.043	6.9	--	--	--	--	--	--	--	--	--

Date	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)	Sus-pended sedi-ment concen-tration mg/L (80154)
OCT							
18...	<.01	<.2	.48	.5	<.16	E2	4
DEC							
09...	--	--	--	--	--	--	4
20...	--	--	--	--	--	--	--
JAN							
26...	--	--	--	--	--	--	--
FEB							
08...	--	--	--	--	--	--	8
MAR							
28...	E.01	<.2	1.31	<.4	<.16	14	254
APR							
13...	<.01	<.2	.53	.6	<.16	2	8
29...	--	--	--	--	--	--	--
JUN							
16...	--	--	--	--	--	--	8
17...	--	--	--	--	--	--	--
AUG							
10...	--	--	--	--	--	--	15

Remark codes used in this table:
< -- Less than.
E -- Estimated.

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'20", long 78°54'28", Durham County, Hydrologic Unit 03020201, on right bank 275 ft downstream of bridge on U.S. Highway 501, 0.2 mi downstream of Crooked Creek, and 5 mi north of Durham.

DRAINAGE AREA.--141 mi^2

PERIOD OF RECORD.--Occasional low-flow measurements, water year 1955. August 1963 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-71(M), 1971(P).

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Prior to Nov. 19, 1966, at site 275 ft upstream, at datum 272.35 ft. Nov. 20, 1966, to Sept. 30, 1967, water-stage recorder at present site, at datum 270.94 ft. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some regulation during periods of low flow caused by mill 600 ft upstream. Maximum gage height for period of record, 23.58 ft, from floodmark. Minimum discharge for period of record also occurred on Aug. 15, 1977. Minimum discharge for current water year also occurred Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	32	113	63	152	556	187	85	23	23	14	4.7
2	64	30	100	60	118	250	264	105	39	24	13	5.0
3	96	29	90	59	131	158	252	74	87	18	11	4.3
4	70	42	80	58	290	127	163	64	87	15	8.9	3.5
5	56	82	72	59	186	114	132	57	52	15	6.2	2.9
6	50	70	67	61	135	107	116	66	42	16	5.7	2.7
7	42	57	69	61	113	100	173	67	273	31	7.4	2.6
8	37	47	71	60	103	342	344	60	191	55	8.0	2.3
9	33	42	70	59	96	396	607	54	114	37	43	1.9
10	31	36	824	57	94	189	238	48	170	22	54	1.7
11	28	30	800	55	92	152	156	45	161	16	28	1.8
12	26	85	349	54	82	163	128	43	88	10	13	1.8
13	133	525	176	77	77	139	146	58	66	7.2	13	2.3
14	119	237	122	1,630	79	124	143	60	56	5.6	28	2.5
15	82	115	98	880	93	116	116	48	49	5.2	24	4.3
16	60	83	86	353	96	154	98	43	39	7.4	34	4.4
17	47	70	79	196	87	728	89	42	30	15	35	4.4
18	39	62	76	137	77	581	84	37	23	9.9	25	4.4
19	35	57	74	112	69	317	82	34	17	7.2	14	5.5
20	36	54	72	103	66	210	80	96	14	6.5	10	5.9
21	48	52	66	106	69	165	75	135	14	5.7	6.8	5.2
22	47	53	62	105	71	143	71	89	14	5.7	5.3	14
23	43	79	80	98	69	178	74	55	12	5.3	5.3	9.0
24	41	207	104	86	95	339	71	47	e10	4.1	5.3	6.0
25	38	184	93	78	155	225	67	44	e9.7	3.8	4.6	5.6
26	38	137	79	82	115	171	61	39	e8.9	3.6	9.3	4.2
27	37	99	73	82	94	150	59	35	e22	4.4	6.1	3.5
28	34	403	66	74	507	1,030	57	30	31	4.4	5.2	4.1
29	32	250	65	69	---	846	58	28	40	8.7	4.9	4.0
30	34	143	65	134	---	417	62	26	23	14	6.3	3.6
31	35	---	64	225	---	250	---	24	---	24	5.3	---
TOTAL	1,563	3,392	4,305	5,333	3,411	8,937	4,253	1,738	1,805.6	429.7	459.6	128.1
MEAN	50.4	113	139	172	122	288	142	56.1	60.2	13.9	14.8	4.27
MAX	133	525	824	1,630	507	1,030	607	135	273	55	54	14
MIN	26	29	62	54	66	100	57	24	8.9	3.6	4.6	1.7
CFSM	0.36	0.80	0.98	1.22	0.86	2.04	1.01	0.40	0.43	0.10	0.11	0.03
IN.	0.41	0.89	1.14	1.41	0.90	2.36	1.12	0.46	0.48	0.11	0.12	0.03

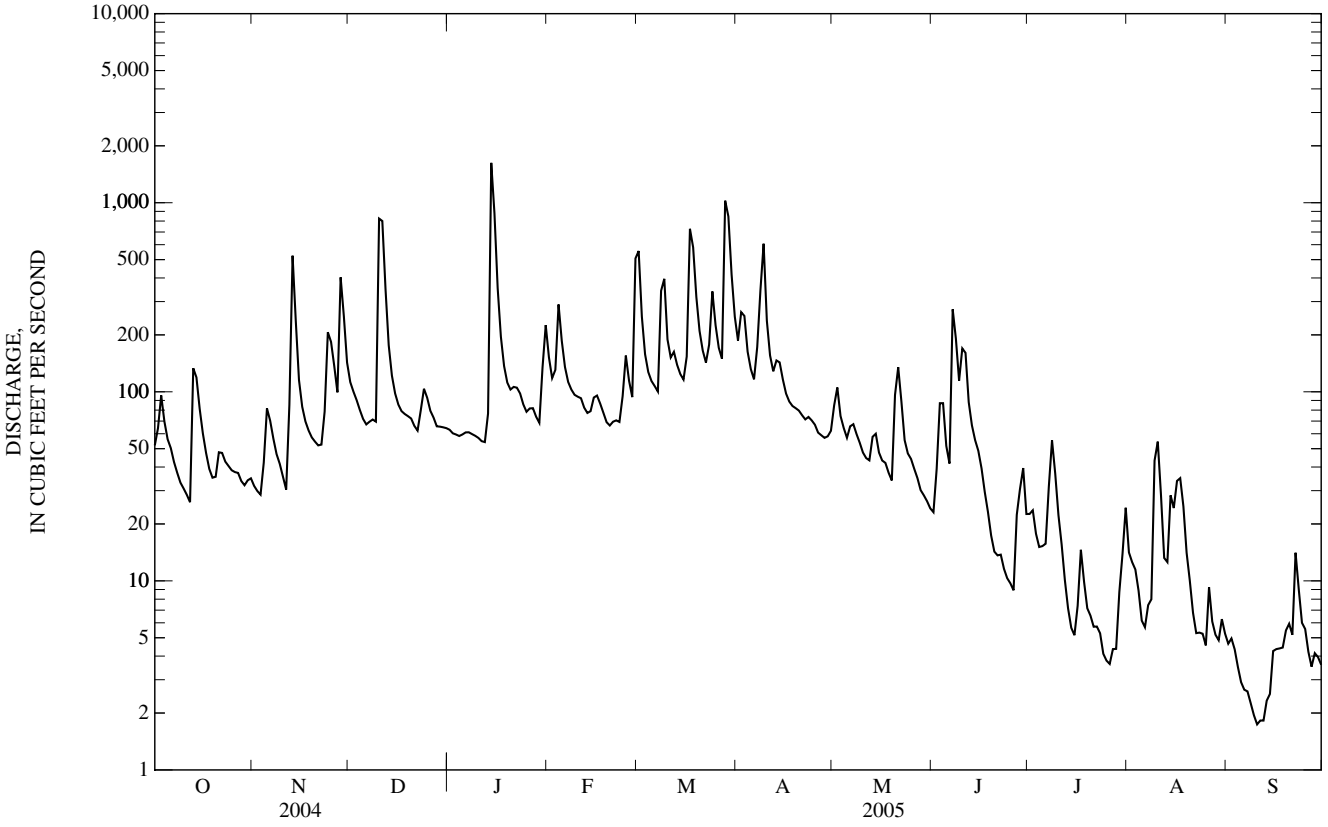
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005, BY WATER YEAR (WY)

MEAN	60.3	76.1	112	196	242	280	188	120	87.0	70.5	54.7	72.1
MAX	456	462	406	517	638	767	603	429	411	452	282	606
(WY)	(1972)	(1986)	(1973)	(1998)	(1998)	(1998)	(2003)	(1978)	(1982)	(1975)	(1985)	(1999)
MIN	4.77	7.27	11.3	21.4	47.1	61.5	34.9	10.2	5.28	6.01	3.34	0.84
(WY)	(1964)	(2002)	(2002)	(1981)	(2002)	(2002)	(1995)	(2002)	(2002)	(2002)	(1977)	(1968)

02085070 ENO RIVER NEAR DURHAM, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005	
ANNUAL TOTAL	34,871.2		35,755.0			
ANNUAL MEAN	95.3		98.0		129	
HIGHEST ANNUAL MEAN					293	2003
LOWEST ANNUAL MEAN					26.7	2002
HIGHEST DAILY MEAN	970	Aug 30	1,630	Jan 14	9,900	Sep 6, 1996
LOWEST DAILY MEAN	1.6	Jul 17	1.7	Sep 10	0.08	Aug 14, 1977
ANNUAL SEVEN-DAY MINIMUM	2.4	Jul 11	2.0	Sep 8	0.20	Aug 8, 1977
MAXIMUM PEAK FLOW			2,830	Jan 14	14,700	Sep 6, 1996
MAXIMUM PEAK STAGE			9.11	Jan 14	23.58*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			1.5*	Sep 10	0.06*	Aug 14, 1977
ANNUAL RUNOFF (CFSM)	0.676		0.695		0.918	
ANNUAL RUNOFF (INCHES)	9.20		9.43		12.48	
10 PERCENT EXCEEDS	184		190		263	
50 PERCENT EXCEEDS	62		60		53	
90 PERCENT EXCEEDS	16		5.3		6.9	

* See REMARKS.
e Estimated.



0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

LOCATION.--Lat 36°08'30", long 78°55'09", Durham County, Hydrologic Unit 03020201, on right bank, 5 feet downstream from bridge on Secondary Road 1461, and 1.8 mi northwest of Orange Factory.

DRAINAGE AREA.--78.2 mi^2.

PERIOD OF RECORD.--October 1987 to current year. Prior to October 1987, equivalent records published as "Little River near Orange Factory, NC" (02085220), September 1961 to September 1987.

GAGE.--Water-stage recorder. Datum of gage is 380 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from extension of rating curve above 2,300 ft^3/s, based on contracted-opening measurement of peak flow; maximum gage height, 13.26 ft, from high-water mark in gage shelter. No flow occurs periodically.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22	13	77	41	95	307	108	61	18	12	2.3	0.81
2	20	13	70	40	71	139	144	69	22	e10	2.2	0.64
3	26	12	65	39	83	103	153	47	46	e7.5	2.2	0.51
4	18	37	57	40	192	88	96	41	51	e6.4	1.9	0.43
5	15	68	51	39	110	82	79	38	29	e6.5	1.7	0.34
6	15	35	51	39	81	79	69	41	23	6.3	1.6	0.28
7	13	24	51	38	67	72	95	43	18	7.1	1.4	0.24
8	12	19	51	38	61	152	158	40	18	8.0	1.2	0.21
9	11	16	50	38	57	174	152	36	127	11	e11	0.22
10	12	15	1,270	39	57	106	97	34	393	10	e5.9	0.23
11	11	14	432	36	59	89	81	32	94	7.2	3.9	0.21
12	10	41	167	36	51	88	70	30	48	5.5	2.8	0.17
13	29	396	113	42	47	80	75	30	33	4.8	2.4	0.15
14	69	117	90	1,270	49	77	74	28	29	4.2	2.2	0.15
15	32	75	75	413	59	73	64	28	28	4.0	1.8	0.14
16	21	59	67	156	60	84	55	28	23	3.6	1.5	0.13
17	16	50	62	111	52	450	53	27	18	3.5	7.3	0.11
18	14	46	57	86	45	335	54	26	15	3.1	13	0.11
19	13	42	54	72	41	162	50	25	14	2.7	7.9	0.09
20	53	40	51	68	39	122	49	26	13	2.4	4.7	0.10
21	40	37	47	69	41	103	48	31	12	2.1	3.4	0.18
22	25	36	47	66	43	91	46	29	11	2.1	2.7	0.15
23	20	48	55	63	42	117	48	25	10	2.4	2.2	0.13
24	18	132	69	56	57	195	46	24	9.6	2.0	2.2	0.11
25	17	140	63	51	111	130	44	22	8.9	1.7	1.9	0.10
26	16	94	53	56	74	107	42	21	8.5	1.6	1.7	0.08
27	15	68	47	54	59	97	42	20	8.3	1.7	1.5	0.08
28	15	246	43	45	370	780	40	19	17	1.3	1.2	0.07
29	14	141	43	40	---	410	41	18	23	1.4	1.0	0.06
30	14	92	44	75	---	183	43	17	17	2.0	0.90	0.05
31	14	---	42	159	---	129	---	17	---	2.4	0.95	---
TOTAL	640	2,166	3,514	3,415	2,173	5,204	2,216	973	1,185.3	146.5	98.55	6.28
MEAN	20.6	72.2	113	110	77.6	168	73.9	31.4	39.5	4.73	3.18	0.21
MAX	69	396	1,270	1,270	370	780	158	69	393	12	13	0.81
MIN	10	12	42	36	39	72	40	17	8.3	1.3	0.90	0.05
CFSM	0.26	0.92	1.45	1.41	0.99	2.15	0.94	0.40	0.51	0.06	0.04	0.00
IN.	0.30	1.03	1.67	1.62	1.03	2.48	1.05	0.46	0.56	0.07	0.05	0.00

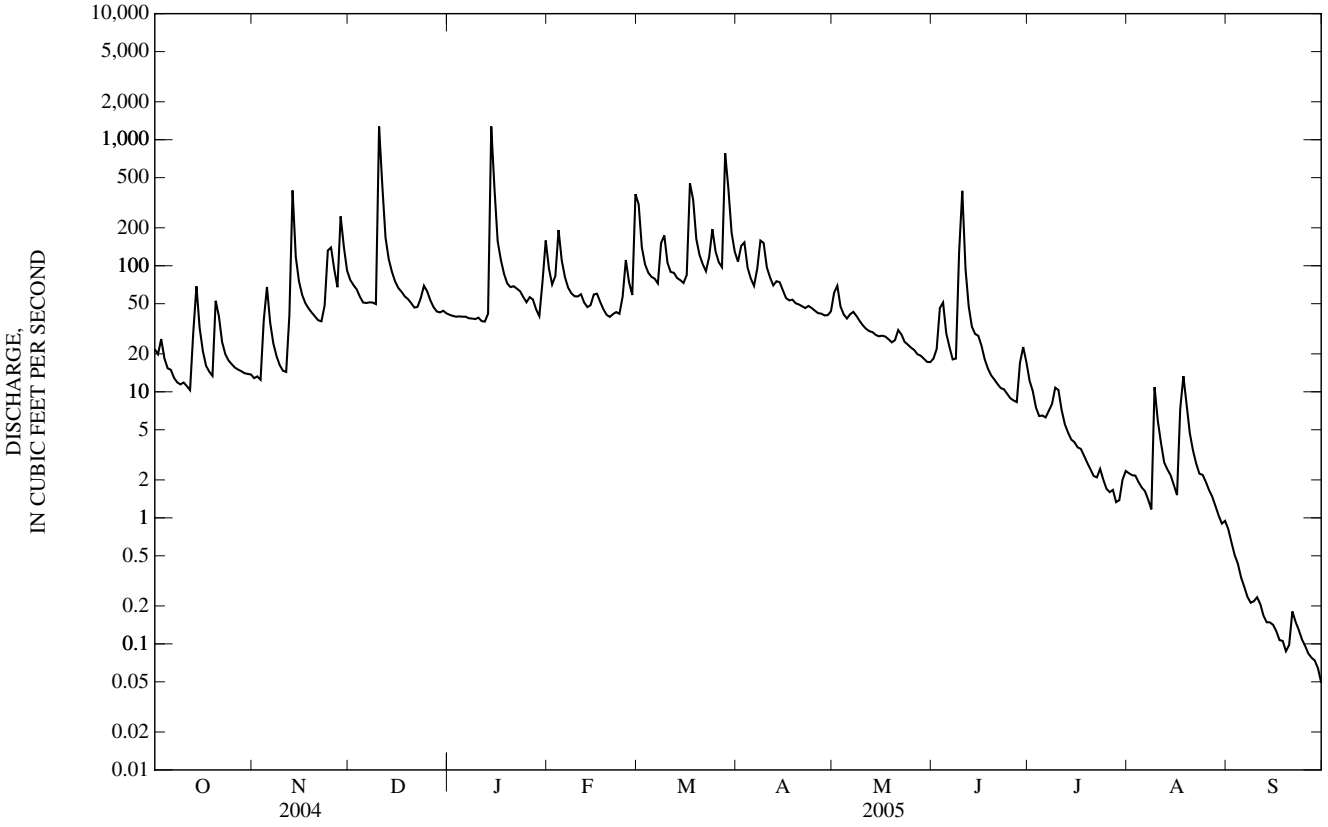
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	40.1	43.8	70.6	119	128	181	116	57.4	42.6	32.4	28.7	52.1
MAX	222	122	215	257	379	456	346	203	194	141	125	329
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1993)	(2003)	(2003)	(1995)	(2003)	(2003)	(1996)
MIN	0.14	1.33	5.06	24.2	22.4	30.9	17.1	7.48	2.08	0.31	0.37	0.21
(WY)	(1994)	(1999)	(2002)	(2001)	(2002)	(1988)	(1995)	(2002)	(2002)	(2002)	(1999)	(2005)

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	21,143.4		21,737.63			
ANNUAL MEAN	57.8		59.6		75.7	
HIGHEST ANNUAL MEAN					195	2003
LOWEST ANNUAL MEAN					14.8	2002
HIGHEST DAILY MEAN	1,270	Dec 10	1,270	Dec 10	6,500	Sep 6, 1996
LOWEST DAILY MEAN	2.4	Jul 16	0.05	Sep 30	0.00	Aug 19, 1988
ANNUAL SEVEN-DAY MINIMUM	2.6	Jul 12	0.08	Sep 24	0.00	Aug 19, 1988
MAXIMUM PEAK FLOW			2,190	Dec 10	11,600*	Sep 6, 1996
MAXIMUM PEAK STAGE			5.74	Dec 10	13.26*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.03	Sep 30	0.00*	Aug 19, 1998
ANNUAL RUNOFF (CFSM)	0.739		0.762		0.968	
ANNUAL RUNOFF (INCHES)	10.06		10.34		13.15	
10 PERCENT EXCEEDS	98		115		151	
50 PERCENT EXCEEDS	40		38		27	
90 PERCENT EXCEEDS	7.3		1.4		1.8	

* See REMARKS.
e Estimated.



0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

LOCATION.--Lat 36°08'59", long 78°53'48", Durham County, Hydrologic Unit 03020201, on right bank at bridge on Secondary Road 1617 and 1.6 mi southwest of Bahama.

DRAINAGE AREA.--8.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder. Datum of gage is 360.95 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record from floodmarks. Maximum gage height for period of record occurred Sept. 6, 1996, discharge not determined. No flow occurred on many days during the period.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	1.4	5.2	2.2	5.7	16	7.2	6.4	0.40	0.23	0.10	0.03
2	1.6	1.6	4.2	2.1	4.5	8.5	17	3.4	e13	0.19	0.08	0.02
3	1.6	1.6	3.5	2.3	8.4	6.3	10	2.2	e5.0	0.18	0.07	0.15
4	1.5	12	3.2	2.2	10	5.3	6.8	1.8	2.8	0.15	0.07	0.06
5	1.2	7.3	2.9	2.2	6.5	5.1	5.7	1.7	1.3	0.13	0.06	0.02
6	1.0	3.5	2.8	2.2	5.0	4.5	5.1	2.6	0.86	0.12	0.06	0.01
7	1.0	2.6	3.8	2.1	4.3	4.0	e9.0	2.2	0.77	0.14	0.05	0.01
8	1.0	2.1	3.4	2.1	3.8	15	e13	1.7	0.76	0.35	0.06	0.00
9	0.96	1.8	3.0	1.9	3.6	9.4	e11	1.5	9.3	0.20	14	0.00
10	1.1	1.5	53	2.1	4.1	6.5	e7.0	1.3	7.2	0.16	3.0	0.00
11	1.0	1.5	17	2.1	3.2	5.6	e6.0	1.2	2.6	0.14	0.61	0.00
12	1.0	13	8.6	1.9	3.1	5.5	e5.0	1.1	1.6	0.11	0.29	0.00
13	12	18	6.2	4.1	2.8	4.6	e5.5	1.3	1.3	0.10	0.19	0.00
14	8.6	6.2	4.9	90	3.4	4.6	e5.0	1.2	1.6	0.09	0.15	0.00
15	2.9	4.1	4.0	18	3.8	3.9	e4.5	1.1	1.1	0.10	0.12	0.00
16	1.8	3.2	3.6	9.2	3.4	7.6	e4.0	1.1	0.83	0.09	0.10	0.00
17	1.4	2.7	3.4	6.2	2.9	31	e4.0	0.91	0.65	0.08	0.16	0.00
18	1.2	2.6	3.1	4.8	2.4	17	e3.5	0.83	0.54	0.08	0.10	0.00
19	2.4	2.4	3.1	4.2	2.2	9.9	e3.5	0.78	0.49	0.08	0.12	0.00
20	9.7	2.3	2.7	4.3	2.2	7.8	e3.5	1.0	0.42	0.08	0.12	0.00
21	3.2	2.2	2.4	4.7	2.6	6.3	3.1	1.1	0.37	0.07	0.11	0.00
22	2.3	2.0	2.8	4.3	2.5	5.5	2.7	0.89	0.34	0.15	0.09	0.00
23	1.9	6.2	4.8	3.8	2.3	12	3.7	0.77	0.35	0.65	0.11	0.00
24	2.0	11	4.7	4.1	6.2	13	3.0	0.67	0.26	0.20	0.12	0.00
25	1.8	7.2	3.3	3.6	6.0	8.3	2.5	0.77	0.26	0.11	0.10	0.00
26	1.6	4.5	2.8	3.9	4.1	7.1	2.3	0.71	0.24	0.08	0.09	0.00
27	1.5	3.5	2.5	3.3	3.4	6.4	2.3	0.58	0.27	0.07	0.07	0.00
28	1.5	26	2.2	2.6	31	62	2.0	0.51	0.26	0.06	0.07	0.00
29	1.5	8.9	2.4	2.5	---	22	2.3	0.52	0.33	0.11	0.06	0.00
30	1.8	5.8	2.4	9.4	---	11	2.6	0.47	0.30	0.12	0.07	0.00
31	1.5	---	2.2	9.0	---	8.1	---	0.45	---	0.10	0.06	---
TOTAL	75.26	168.7	174.1	217.4	143.4	339.8	162.8	42.76	55.50	4.52	20.46	0.30
MEAN	2.43	5.62	5.62	7.01	5.12	11.0	5.43	1.38	1.85	0.15	0.66	0.01
MAX	12	26	53	90	31	62	17	6.4	13	0.65	14	0.15
MIN	0.96	1.4	2.2	1.9	2.2	3.9	2.0	0.45	0.24	0.06	0.05	0.00
CFSM	0.30	0.70	0.70	0.88	0.64	1.37	0.68	0.17	0.23	0.02	0.08	0.00
IN.	0.35	0.78	0.81	1.01	0.67	1.58	0.76	0.20	0.26	0.02	0.10	0.00

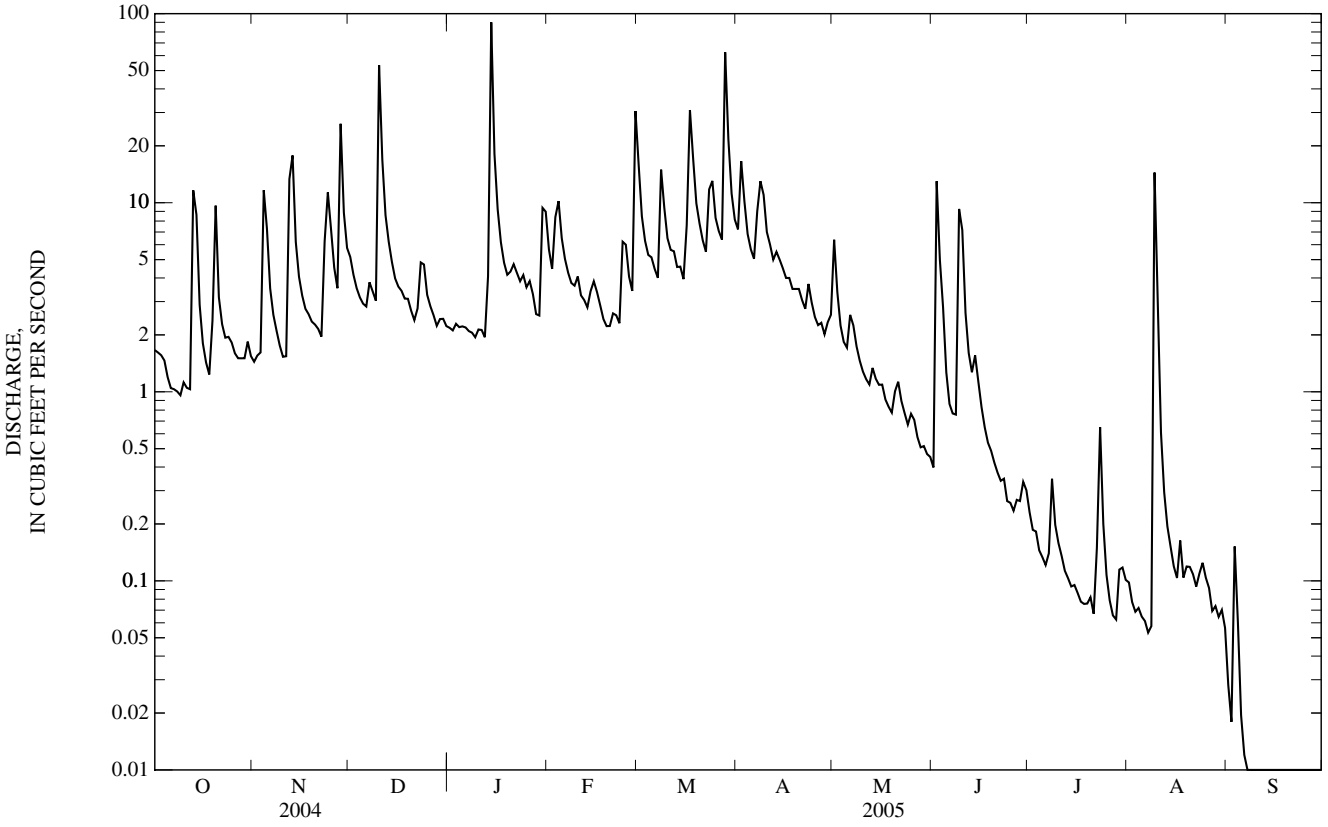
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	5.26	4.05	6.23	10.1	12.2	16.2	10.4	4.41	5.42	2.71	2.84	12.2
MAX	32.9	11.7	20.7	27.3	36.2	49.9	30.0	15.1	29.7	7.95	10.6	74.0
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(1995)	(2003)	(2004)	(1996)
MIN	0.03	0.06	0.26	1.51	1.55	2.74	1.14	0.19	0.29	0.10	0.01	0.01
(WY)	(1999)	(1999)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(1999)	(2002)	(1999)	(2005)

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	1,657.58		1,405.00			
ANNUAL MEAN	4.53		3.85		7.63	
HIGHEST ANNUAL MEAN					17.3	2003
LOWEST ANNUAL MEAN					1.67	2002
HIGHEST DAILY MEAN	144	Aug 30	90	Jan 14	1,000	Sep 6, 1996
LOWEST DAILY MEAN	0.05	Jul 16	0.00	Sep 8	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	0.07	Jul 11	0.00	Sep 8	0.00	Aug 3, 1999
MAXIMUM PEAK FLOW			210	Mar 28	NOT DETERMINED*	
MAXIMUM PEAK STAGE			6.34	Mar 28	12.56	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 8	0.00*	Aug 3, 1999
ANNUAL RUNOFF (CFSM)	0.566		0.481		0.954	
ANNUAL RUNOFF (INCHES)	7.71		6.53		12.96	
10 PERCENT EXCEEDS	8.5		8.7		13	
50 PERCENT EXCEEDS	2.7		2.2		2.3	
90 PERCENT EXCEEDS	0.25		0.07		0.09	

* See REMARKS.
e Estimated.



0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
05...	1445	1.1	757	8.7	94	7.1	122	18.7	.27	.28	<.04	.23	<.008
NOV													
22...	1400	1.9	754	9.8	95	7.2	92	13.4	.26	.30	<.04	.27	<.008
DEC													
22...	1215	2.7	759	12.7	96	7.4	83	3.5	.25	.33	E.02	.65	<.008
FEB													
11...	1330	3.2	752	11.0	91	7.7	100	6.8	.31	.32	E.02	.49	E.004
APR													
07...	1445	5.0	749	9.6	103	7.7	94	18.4	.29	.34	<.04	.36	E.005
JUN													
02...	1315	.95	752	8.6	91	7.4	112	17.4	.25	.29	<.04	.38	<.008
JUL													
29...	0915	.10	755	7.5	89	7.2	143	23.2	.29	.34	<.04	.17	<.008

Date	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)
OCT													
05...	.50	.51	<.02	<.04	<.04	50	<2	<.04	<.8	.201	E.6	890	.21
NOV													
22...	.53	.57	<.02	<.04	E.02	--	--	--	--	--	--	--	--
DEC													
22...	.90	.98	<.02	<.04	<.04	190	<2	<.04	<.8	.286	1.0	1,180	.28
FEB													
11...	.79	.81	<.02	<.04	<.04	--	--	--	--	--	--	--	--
APR													
07...	.66	.70	<.02	<.04	.04	--	--	--	--	--	--	--	--
JUN													
02...	.64	.67	<.02	<.04	E.03	--	--	--	--	--	--	--	--
JUL													
29...	.46	.51	<.02	<.04	E.03	--	--	--	--	--	--	--	--

Date	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT									
05...	49	<.01	E.2	.31	<.4	<.16	<2	6	.02
NOV									
22...	--	--	--	--	--	--	--	4	.02
DEC									
22...	210	<.01	<.2	.28	E.4	<.16	E1	6	.04
FEB									
11...	--	--	--	--	--	--	--	6	.05
APR									
07...	--	--	--	--	--	--	--	10	.14
JUN									
02...	--	--	--	--	--	--	--	9	.02
JUL									
29...	--	--	--	--	--	--	--	2	.00

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'54", long 78°52'09", Durham County, Hydrologic Unit 03020201, at dam 7.5 mi below State Highway 501, and 4.0 mi south of Bahama.

DRAINAGE AREA.--97.7 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
25...	0915	9	20	1.0	.80	755	4.6	50	6.7	90	19.6	27	6.39
25...	0920	9	--	11.0	--	755	4.7	52	6.7	85	19.6	--	--
25...	0925	9	--	20.0	--	755	.3	3	7.7	220	15.1	--	--
APR													
14...	0930	9	38	1.0	.90	754	9.5	95	7.3	72	14.9	24	5.59
14...	0935	9	--	12.0	--	754	4.6	39	6.5	75	7.8	--	--
14...	0940	9	--	22.0	--	754	4.6	39	6.4	77	7.3	--	--
JUN													
23...	1030	9	30	1.0	.90	759	6.8	81	7.1	87	23.9	26	6.05
23...	1035	9	--	11.0	--	759	1.1	12	6.4	90	19.6	--	--
23...	1040	9	--	22.0	--	759	.1	1	6.4	113	8.8	--	--
AUG													
11...	1130	9	20	1.0	.90	751	4.5	59	6.8	88	28.3	26	6.26
11...	1131	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1132	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1133	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1134	R	--	1.0	.90	751	4.5	59	6.8	88	28.3	--	--
11...	1135	9	--	11.0	--	751	.1	2	6.6	104	26.1	--	--
11...	1140	9	--	21.0	--	751	.2	2	6.9	163	9.7	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
25...	2.61	2.21	5.11	24	30	5.95	E.1	9.52	3.4	73	.43	.031	.183
25...	--	--	--	--	--	--	--	--	--	--	.45	.033	.189
25...	--	--	--	--	--	--	--	--	--	--	.59	.154	.121
APR													
14...	2.35	1.52	4.87	19	24	5.73	E.1	8.65	5.5	55	E.66	<.010	.152
14...	--	--	--	--	--	--	--	--	--	--	E.41	E.005	.376
14...	--	--	--	--	--	--	--	--	--	--	E.86	.071	.402
JUN													
23...	2.53	1.65	5.09	22	27	6.04	E.1	7.77	4.6	65	.58	E.009	E.013
23...	--	--	--	--	--	--	--	--	--	--	.53	.100	.107
23...	--	--	--	--	--	--	--	--	--	--	.87	.399	.134
AUG													
11...	2.62	1.67	5.22	26	32	5.94	E.1	5.94	3.6	63	.50	.038	<.032
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	26	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	.43	<.010	<.016
11...	--	--	--	--	--	--	--	--	--	--	1.3	.865	<.032

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

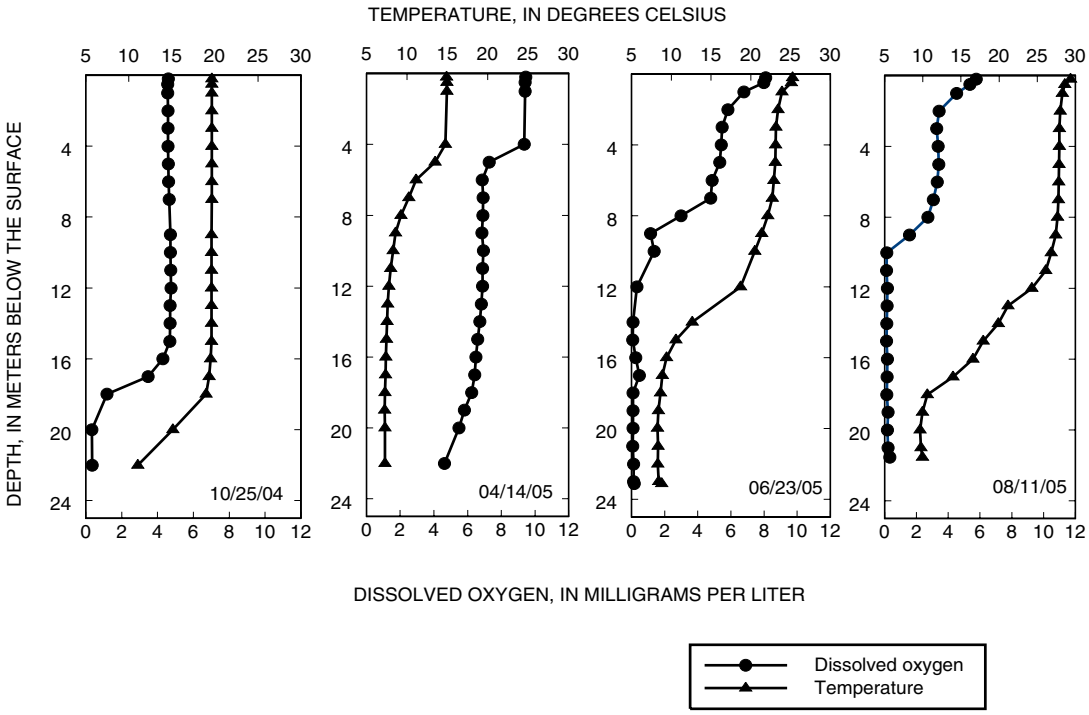
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
25...	.002	<.006	.023	9.9	E1.2	<.1	23	<2	<.04	<.8	.143	.9	140
25...	.002	<.006	.023	--	--	--	--	--	--	--	--	--	150
25...	.004	<.006	.027	--	--	--	--	--	--	--	--	--	310
APR													
14...	.004	<.006	.043	9.0	2.8	<.1	89	<2	<.04	<.8	.149	1.5	370
14...	E.001	<.006	.034	--	--	--	--	--	--	--	--	--	500
14...	.002	E.005	.060	--	--	--	--	--	--	--	--	--	1,020
JUN													
23...	.003	<.02	.037	7.4	10.2	<.1	--	--	--	--	--	--	130
23...	.020	<.02	.019	--	--	--	--	--	--	--	--	--	170
23...	.022	<.02	.078	--	--	--	--	--	--	--	--	--	1,750
AUG													
11...	<.004	<.012	.030	7.0	5.1	<.1	14	<2	<.04	<.8	.108	1.2	100
11...	--	--	--	--	5.2	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	6.1	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	3.2	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	7.0	<.1	--	--	--	--	--	--	--
11...	<.002	<.04	.020	--	--	--	--	--	--	--	--	--	130
11...	E.002	<.012	.039	--	--	--	--	--	--	--	--	--	4,300

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
25...	.07	261	.03	E.1	.32	.8	<.16	E2
25...	--	267	--	--	--	--	--	--
25...	--	731	--	--	--	--	--	--
APR								
14...	.19	34	.01	<.2	.39	.6	<.16	E2
14...	--	98.5	--	--	--	--	--	--
14...	--	656	--	--	--	--	--	--
JUN								
23...	--	109	--	--	--	--	--	--
23...	--	241	--	--	--	--	--	--
23...	--	4,480	--	--	--	--	--	--
AUG								
11...	<.06	300	--	E.1	.23	.7	<.16	E1
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	429	--	--	--	--	--	--
11...	--	7,100	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water sample.
R -- Quality-control sample, surface water.

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC—Continued



0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'52", long 78°51'30", Durham County, Hydrologic Unit 03020201, 0.2 mi above mouth and 0.8 mi northeast of Fairntosh.

DRAINAGE AREA.--0.86 mi^2.

PERIOD OF RECORD.--Water years 1994 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
05...	1200	.13	760	7.7	80	7.0	244	17.4	.40	.39	E.04	--	.07
NOV													
22...	1330	.20	754	--	--	--	--	--	.33	.28	<.04	--	E.03
DEC													
22...	1030	.40	759	12.1	89	7.3	158	2.6	.29	.25	.05	--	.07
FEB													
11...	1100	.34	752	12.3	96	7.1	202	4.3	.26	.23	E.02	--	E.04
APR													
07...	1300	.58	749	10.4	110	7.3	110	17.4	.23	.25	<.04	--	E.05
JUN													
02...	1415	E1.0	752	8.4	89	7.1	253	17.2	4.5	4.5	1.95	.70	.73
JUL													
29...	1015	.09	758	7.0	84	6.9	187	23.6	.50	.67	<.04	--	.54

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)
OCT													
05...	<.008	--	--	.47	.46	E.01	<.04	E.04	78	E1	<.04	<.8	.587
NOV													
22...	<.008	--	--	--	--	<.02	<.04	E.02	--	--	--	--	--
DEC													
22...	<.008	.23	.20	.35	.32	<.02	<.04	<.04	30	<2	<.04	<.8	.537
FEB													
11...	<.008	--	--	--	--	<.02	<.04	<.04	--	--	--	--	--
APR													
07...	<.008	--	--	--	--	<.02	<.04	<.04	--	--	--	--	--
JUN													
02...	.029	2.6	2.6	5.2	5.3	.06	.08	.14	--	--	--	--	--
JUL													
29...	E.007	--	--	1.0	1.2	.03	.05	.11	--	--	--	--	--

Date	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT												
05...	1.4	1,420	.19	612	<.01	.4	.72	<.4	<.16	E1	9	.00
NOV												
22...	--	--	--	--	--	--	--	--	--	--	6	.00
DEC												
22...	1.2	1,160	E.04	437	<.01	E.2	.41	.6	<.16	E1	2	.00
FEB												
11...	--	--	--	--	--	--	--	--	--	--	3	.00
APR												
07...	--	--	--	--	--	--	--	--	--	--	8	.01
JUN												
02...	--	--	--	--	--	--	--	--	--	--	38	--
JUL												
29...	--	--	--	--	--	--	--	--	--	--	12	.00

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'48", long 78°51'35", Durham County, Hydrologic Unit 03020201, 125 ft downstream of the mouth of Little River tributary and 0.5 mi downstream of Little River dam.

DRAINAGE AREA.--98.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records are poor due to the effects of beaver dams on the gage height-discharge relationship. Flow regulated by releases from the Little River Reservoir. Maximum discharge for period of record from extension of rating curve based on contracted-opening measurement of peak flow. Maximum gage height for period of record from floodmarks. Instantaneous low flow for the period of record not determined due to the effects of beaver dams on the gage height-discharge relationship. Minimum instantaneous low flow also occurred on Sept. 14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.4	3.6	41	11	90	408	113	30	11	2.5	2.4	2.5
2	4.1	3.6	25	12	61	170	161	33	13	3.1	2.4	2.4
3	3.7	3.5	23	13	65	93	181	24	12	2.6	2.4	2.1
4	4.3	4.0	19	11	149	63	106	17	8.1	2.5	2.3	2.2
5	3.7	3.5	17	11	117	58	75	11	8.6	2.5	2.3	2.0
6	4.2	4.2	9.5	12	72	52	56	16	8.8	3.0	2.2	2.2
7	4.4	4.7	16	9.8	55	45	74	19	10	5.0	2.2	2.3
8	4.4	5.3	16	11	46	105	149	15	11	3.1	2.4	2.6
9	4.4	6.1	15	6.8	40	180	172	12	16	2.3	4.6	2.3
10	3.7	6.8	1,300	9.4	49	103	92	9.3	123	2.2	2.4	2.3
11	3.8	7.4	820	10	35	69	62	9.3	89	2.2	2.5	2.7
12	3.9	30	166	9.3	34	63	54	10	27	2.0	2.5	2.0
13	9.6	228	89	15	30	49	48	10	10	2.2	3.3	2.2
14	3.6	127	49	1,540	33	50	49	9.0	7.5	2.4	4.3	2.2
15	11	47	32	877	37	41	38	9.1	5.4	2.4	2.7	2.2
16	12	24	26	165	43	48	31	9.0	2.6	2.2	2.7	2.8
17	3.9	21	19	94	40	360	27	9.1	3.2	2.1	3.4	3.4
18	3.6	12	17	62	31	423	25	11	3.6	2.4	2.6	3.8
19	3.4	11	19	50	24	197	24	11	3.3	2.5	2.5	5.7
20	3.6	11	16	42	24	127	24	12	3.6	2.4	2.7	11
21	3.8	13	13	43	27	85	22	13	3.5	2.2	2.7	3.4
22	3.6	11	11	38	27	64	19	12	3.3	2.3	2.6	3.1
23	3.5	20	18	40	27	80	25	12	3.7	2.5	2.8	3.6
24	3.5	61	21	31	40	169	25	12	3.5	2.1	2.6	3.7
25	3.9	91	26	33	73	141	15	12	3.1	2.1	2.4	3.8
26	4.1	60	22	35	64	92	11	12	2.8	2.2	2.4	3.4
27	3.6	36	17	36	46	75	16	11	3.4	2.4	2.4	3.1
28	3.5	183	13	30	253	1,010	14	11	2.7	3.1	2.4	2.9
29	3.3	152	11	26	---	509	11	11	2.5	3.0	2.7	2.8
30	3.4	63	12	55	---	225	15	10	2.4	2.5	2.6	3.1
31	3.8	---	15	118	---	144	---	11	---	2.4	2.4	---
TOTAL	138.7	1,253.7	2,913.5	3,456.3	1,632	5,298	1,734	412.8	407.6	78.4	82.8	93.8
MEAN	4.47	41.8	94.0	111	58.3	171	57.8	13.3	13.6	2.53	2.67	3.13
MAX	12	228	1,300	1,540	253	1,010	181	33	123	5.0	4.6	11
MIN	3.3	3.5	9.5	6.8	24	41	11	9.0	2.4	2.0	2.2	2.0

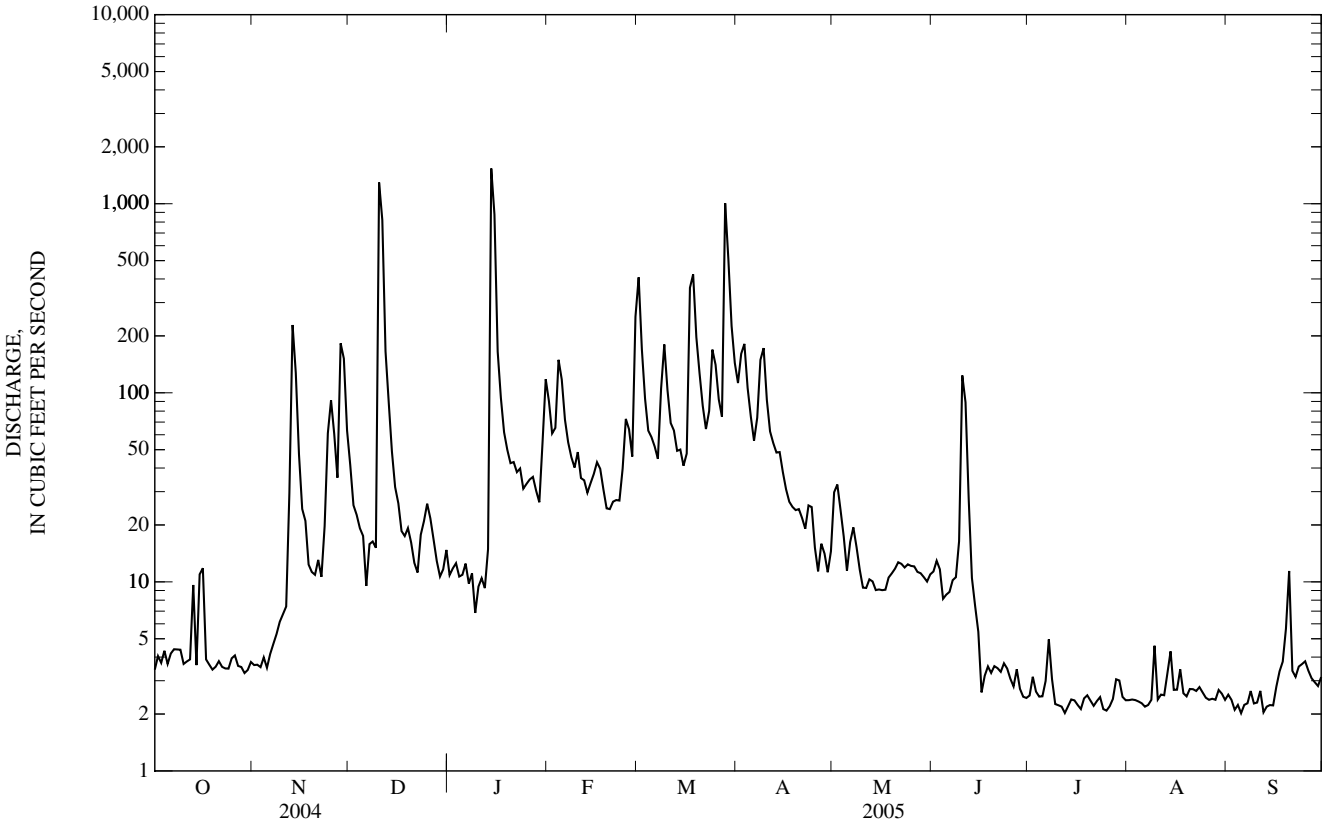
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	30.6	41.2	87.6	91.9	145	208	145	49.5	23.9	17.8	22.9	119
MAX	178	149	290	333	509	705	510	260	162	146	132	538
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(1996)
MIN	2.02	2.03	1.07	1.15	2.99	4.46	6.09	5.69	1.30	1.16	1.57	0.95
(WY)	(1998)	(2001)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	13,518.1		17,501.6			
ANNUAL MEAN	36.9		47.9		77.0	
HIGHEST ANNUAL MEAN					224	2003
LOWEST ANNUAL MEAN					3.39	2002
HIGHEST DAILY MEAN	1,300	Dec 10	1,540	Jan 14	10,300	Sep 6, 1996
LOWEST DAILY MEAN	2.6	Aug 26	2.0	Jul 12	0.41	Nov 22, 1998
ANNUAL SEVEN-DAY MINIMUM	2.9	Aug 23	2.2	Jul 11	0.51	Sep 7, 2002
MAXIMUM PEAK FLOW			3,050	Jan 14	16,600*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.91	Jan 14	17.27	Sep 6, 1996
INSTANTANEOUS LOW FLOW			1.8	Sep 12	NOT DETERMINED*	
10 PERCENT EXCEEDS	75		98		127	
50 PERCENT EXCEEDS	11		11		7.5	
90 PERCENT EXCEEDS	3.6		2.4		1.8	

* See REMARKS.



0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June 1995 to current year.

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 05...	1300	3.5	760	7.6	88	6.9	79	22.8	.39	.40	<.04	--	.16
NOV 22...	1145	8.5	754	9.2	91	6.8	93	14.9	.41	.41	.06	--	.18
DEC 22...	1130	13	759	--	--	--	--	--	.43	.47	E.03	.25	.26
FEB 11...	1230	36	752	12.3	100	7.6	81	6.2	.46	.50	E.02	--	.33
APR 07...	1345	56	749	10.9	110	7.6	80	15.0	.37	.55	<.04	--	.26
JUN 02...	1430	14	752	7.1	76	7.1	103	18.1	.66	.73	.17	--	.23
JUL 29...	0945	2.7	758	4.0	51	6.6	102	26.8	.40	.49	.07	--	.07

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, fltrd, mg/L (00607)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT 05...	E.005	--	--	.55	.56	<.02	<.04	E.02	5	.05
NOV 22...	E.004	.36	.35	.60	.59	<.02	E.03	<.04	6	.14
DEC 22...	.013	--	--	.69	.73	<.02	E.02	E.03	5	.18
FEB 11...	<.008	--	--	.79	.83	<.02	<.04	E.03	5	.48
APR 07...	<.008	--	--	.63	.81	<.02	<.04	E.04	8	1.2
JUN 02...	E.006	.48	.55	.89	.96	<.02	E.02	E.03	7	.26
JUL 29...	<.008	.33	.43	.47	.56	<.02	<.04	E.04	8	.06

02085500 FLAT RIVER AT BAHAMA, NC

LOCATION.--Lat 36°10'58", long 78°52'44", Durham County, Hydrologic Unit 03020201, on right bank 0.5 mi upstream from Lake Michie, 1.2 mi upstream from bridge on Secondary Road 1616, 1.2 mi north of Bahama, and 1.5 mi upstream from Dial Creek.

DRAINAGE AREA.--149 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1925 to current year.

REVISED RECORDS.--WSP 1333: 1926, 1928(M), 1938, 1946. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 346.85 ft above NGVD of 1929. Prior to Oct. 22, 1925, nonrecording gage at present site at 346.27 ft. Satellite telemetry at station.

REMARKS.--Records poor. Prior to December 1962, some diurnal fluctuation and infrequent regulation at low flow caused by small mill 5 mi upstream. Maximum discharge for period of record from rating curve extended above 18,000 ft^3/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 17.26 ft, from high-water mark inside gage shelter.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	17	139	79	197	648	178	112	e24	e27	e6.1	e2.4
2	22	17	127	77	148	297	263	e95	30	e23	e6.0	e1.9
3	21	17	110	76	144	200	310	e72	44	e17	e5.9	e1.6
4	20	70	97	76	402	158	177	e60	62	e15	e5.3	e1.4
5	19	145	89	77	248	139	137	e52	47	e15	e4.8	e1.1
6	e19	58	83	75	178	132	121	e61	38	e14	e4.5	e0.90
7	e17	36	85	74	145	122	125	e58	33	e16	e3.9	e0.80
8	e15	30	87	71	130	193	194	e53	30	e18	e3.1	e0.70
9	14	26	86	72	122	300	149	e49	42	e24	e23	e0.70
10	14	23	4,560	70	129	175	120	e42	e204	e24	e16	e0.80
11	13	22	916	70	133	143	104	e42	e76	e17	e10	e0.70
12	e13	117	403	68	110	134	95	46	e46	e13	e7.5	e0.60
13	e158	1,340	262	71	102	124	110	46	e37	e12	e6.6	e0.50
14	e120	293	192	2,920	101	114	151	43	e35	e10	e5.7	e0.50
15	e95	166	154	821	124	109	108	42	e36	e9.7	e5.0	e0.50
16	e71	120	131	353	127	114	89	41	e34	e8.9	e4.1	e0.50
17	e54	102	120	242	111	747	81	40	e28	e8.6	e16	e0.40
18	e47	89	113	179	98	707	78	e37	e25	e7.8	e30	e0.40
19	e39	82	106	145	89	347	e75	e39	e24	e7.0	e20	e0.30
20	e106	77	100	133	85	244	e73	e99	e23	e6.3	e12	e0.40
21	e66	72	90	133	87	191	e74	57	e22	e5.6	e9.1	e0.60
22	39	69	87	128	91	159	e72	47	e21	e5.5	e7.0	e0.60
23	29	74	95	126	88	193	e77	e40	e21	e6.4	e5.8	e0.50
24	26	198	175	109	104	331	e77	38	e20	e5.4	e5.8	e0.40
25	24	377	135	104	216	231	e68	37	e19	e4.6	e5.1	e0.40
26	23	204	106	114	145	181	60	36	e18	e4.4	e4.4	e0.30
27	22	128	95	116	114	159	e66	e33	e18	e4.6	e4.0	e0.30
28	e21	493	86	97	586	1,270	56	e30	e34	e3.7	e3.5	e0.30
29	20	307	83	86	---	729	56	e25	e46	e3.8	e3.0	e0.30
30	19	177	83	132	---	319	e79	e24	e37	e5.3	e2.6	e0.20
31	18	---	81	323	---	218	---	e23	---	e6.3	e2.7	---
TOTAL	1,209	4,946	9,076	7,217	4,354	9,128	3,423	1,519	1,174	348.9	248.5	21.00
MEAN	39.0	165	293	233	156	294	114	49.0	39.1	11.3	8.02	0.70
MAX	158	1,340	4,560	2,920	586	1,270	310	112	204	27	30	2.4
MIN	13	17	81	68	85	109	56	23	18	3.7	2.6	0.20
CFSM	0.26	1.11	1.96	1.56	1.04	1.98	0.77	0.33	0.26	0.08	0.05	0.00
IN.	0.30	1.23	2.27	1.80	1.09	2.28	0.85	0.38	0.29	0.09	0.06	0.01

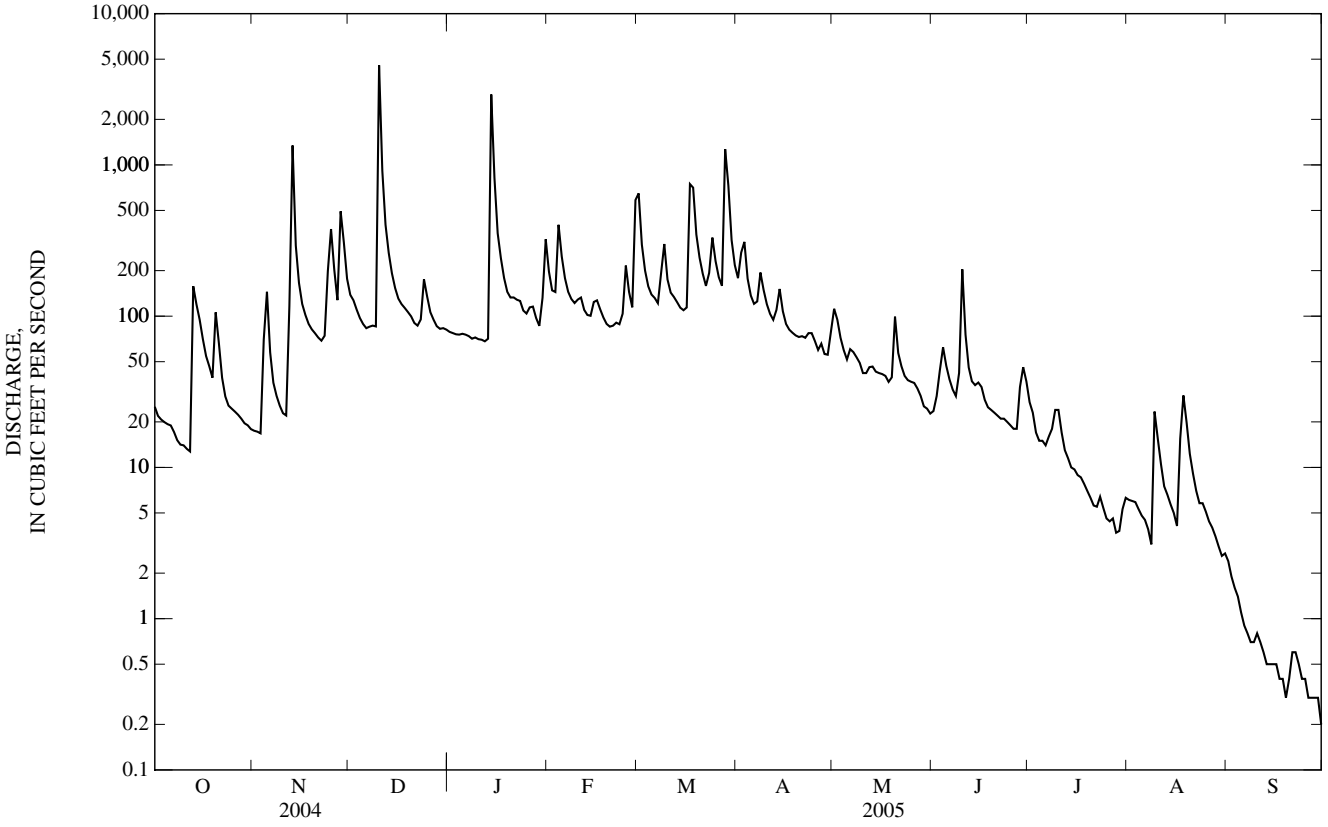
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	67.7	95.4	134	220	268	288	223	113	79.8	85.0	74.4	85.7
MAX	561	489	421	761	758	948	656	573	551	798	431	984
(WY)	(1972)	(1986)	(1973)	(1936)	(1998)	(1998)	(2003)	(1978)	(1938)	(1975)	(1939)	(1996)
MIN	1.24	0.71	1.81	4.29	39.4	58.7	31.1	19.3	3.85	1.68	2.93	0.70
(WY)	(1942)	(1934)	(1934)	(1934)	(2002)	(2004)	(1942)	(2002)	(2002)	(2002)	(1977)	(2005)

02085500 FLAT RIVER AT BAHAMA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL TOTAL	41,473.0		42,664.40			
ANNUAL MEAN	113		117		144	
HIGHEST ANNUAL MEAN					347	2003
LOWEST ANNUAL MEAN					25.2	2002
HIGHEST DAILY MEAN	4,560	Dec 10	4,560	Dec 10	21,800	Sep 6, 1996
LOWEST DAILY MEAN	1.7	Jul 17	0.20	Sep 30	0.17	Jun 25, 2002
ANNUAL SEVEN-DAY MINIMUM	2.2	Jul 15	0.31	Sep 24	0.24	Jun 19, 2002
MAXIMUM PEAK FLOW			7,560	Dec 10	33,800*	Sep 6, 1996
MAXIMUM PEAK STAGE			8.55	Dec 10	17.26*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.15*	Jun 25, 2002
ANNUAL RUNOFF (CFSM)	0.760		0.784		0.967	
ANNUAL RUNOFF (INCHES)	10.35		10.65		13.14	
10 PERCENT EXCEEDS	184		199		280	
50 PERCENT EXCEEDS	65		61		50	
90 PERCENT EXCEEDS	9.1		3.8		6.9	

* See REMARKS.
e Estimated.



02085500 FLAT RIVER AT BAHAMA, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment and to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic-chemical data and trace-metal data were analyzed by the city of Durham's Brown Water Treatment Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Discharge, cfs (00060)	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT 05...	1530	--	19	756	8.5	94	7.2	91	20.1	.32	.26	<.04	.21
NOV 22...	1430	--	69	754	9.6	92	7.3	87	13.0	.24	.29	<.04	.32
DEC 21...	1700	--	89	759	14.0	101	7.1	62	1.7	.36	.20	<.04	.66
FEB 11...	1415	--	130	752	11.4	95	7.6	81	6.8	.23	.25	<.04	.36
APR 07...	1515	--	107	749	9.3	99	7.6	75	17.8	.28	.30	<.04	.27
JUN 02...	1230	--	30	752	7.6	82	7.2	86	18.6	.27	.25	<.04	.25
JUL 29...	0845	E3.8	--	754	4.8	60	6.7	99	26.5	.37	.44	E.03	<.06

Date	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT 05...	<.008	.53	.47	<.02	<.04	E.02	5	.26
NOV 22...	E.004	.56	.61	<.02	E.02	E.02	4	.75
DEC 21...	<.008	1.0	.86	<.02	E.02	E.02	5	1.2
FEB 11...	<.008	.60	.61	<.02	<.04	<.04	5	1.8
APR 07...	<.008	.55	.57	<.02	<.04	E.03	8	2.3
JUN 02...	<.008	.52	.50	<.02	<.04	E.02	7	.57
JUL 29...	<.008	--	--	<.02	<.04	E.03	2	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°09'03", long 78°49'48", Durham County, Hydrologic Unit 03020201, at dam 3.0 mi southeast of Bahama.

DRAINAGE AREA.--167 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll a and b analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
25...	1030	9	30	1.0	.80	757	4.2	44	6.6	72	18.2	22	5.11
25...	1035	9	--	6.0	--	757	2.3	25	6.7	75	18.0	--	--
25...	1040	9	--	12.1	--	757	.8	7	6.9	102	10.4	--	--
APR													
14...	1130	9	50	1.0	.70	754	8.0	80	7.0	66	14.9	21	4.85
14...	1135	9	--	6.0	--	754	7.9	79	6.8	65	14.4	--	--
14...	1140	9	--	11.0	--	754	6.4	54	6.6	70	7.6	--	--
JUN													
23...	0930	9	20	1.0	1.10	760	6.9	87	7.6	86	27.2	24	5.38
23...	0935	9	--	5.0	--	760	.1	1	6.4	87	20.2	--	--
23...	0940	9	--	10.0	--	760	.9	8	6.0	78	8.8	--	--
AUG													
11...	1000	9	15	1.0	1.10	751	7.6	102	7.8	85	29.7	21	4.77
11...	1001	R	--	1.0	1.10	751	7.6	102	7.8	85	29.7	--	--
11...	1002	R	--	1.0	1.10	751	7.6	102	7.8	85	29.7	--	--
11...	1003	R	--	1.0	1.10	751	7.6	102	7.8	85	29.7	--	--
11...	1004	R	--	1.0	1.10	751	7.6	102	7.8	85	29.7	--	--
11...	1005	9	--	4.0	--	751	1.2	16	6.5	87	27.9	--	--
11...	1010	9	--	8.0	--	751	.2	2	6.0	83	12.4	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
25...	2.24	2.42	4.39	19	23	4.83	E.1	10.6	4.0	65	.63	.142	.041
25...	--	--	--	--	--	--	--	--	--	--	.68	.206	.030
25...	--	--	--	--	--	--	--	--	--	--	1.0	.581	<.016
APR													
14...	2.20	1.48	4.73	16	19	5.29	E.1	9.90	5.3	56	E.53	.035	.259
14...	--	--	--	--	--	--	--	--	--	--	E.54	.030	.251
14...	--	--	--	--	--	--	--	--	--	--	E.41	.049	.415
JUN													
23...	2.45	1.40	5.42	23	28	5.94	E.1	10.3	3.8	64	.49	<.010	<.016
23...	--	--	--	--	--	--	--	--	--	--	.46	.021	<.016
23...	--	--	--	--	--	--	--	--	--	--	.45	.037	.511
AUG													
11...	2.30	1.44	5.57	27	33	6.05	E.1	9.36	2.8	61	.53	<.020	<.032
11...	--	--	--	27	--	--	--	--	--	--	--	--	--
11...	--	--	--	27	--	--	--	--	--	--	--	--	--
11...	--	--	--	27	--	--	--	--	--	--	--	--	--
11...	--	--	--	27	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	.51	<.010	<.016
11...	--	--	--	--	--	--	--	--	--	--	.57	<.010	<.016

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

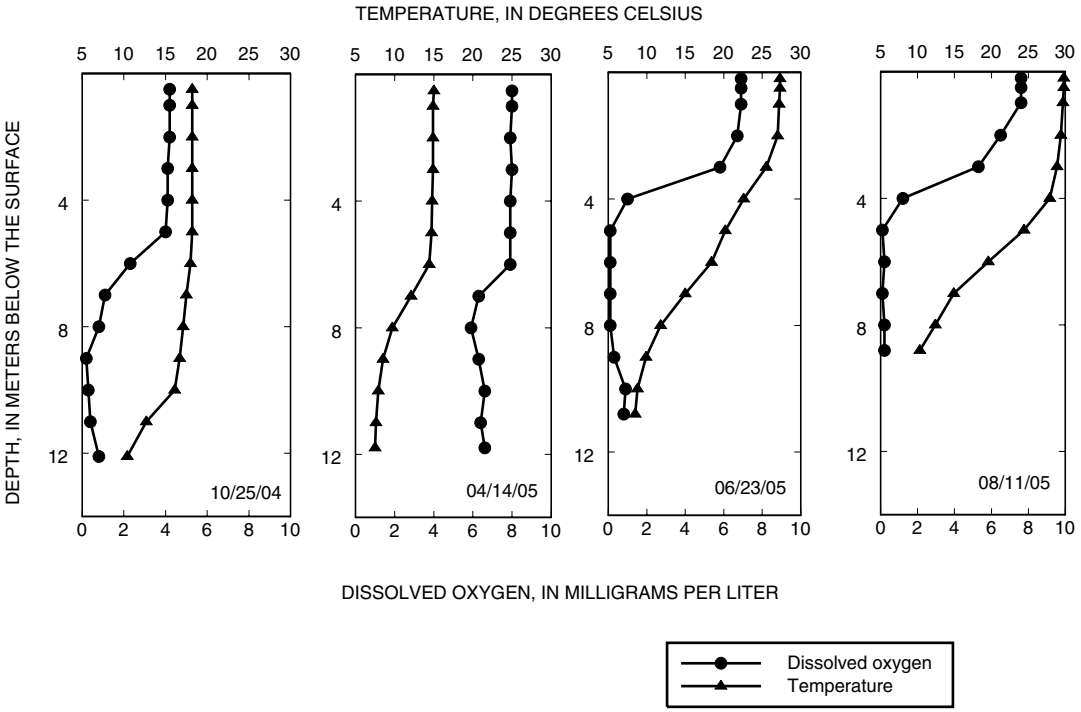
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
25...	.003	<.006	.027	10.0	<.1	<.1	49	<2	<.04	<.8	.254	1.8	420
25...	.002	<.006	.026	--	--	--	--	--	--	--	--	--	480
25...	.002	.013	.042	--	--	--	--	--	--	--	--	--	3,470
APR													
14...	.005	<.006	.046	8.2	E.4	<.1	162	<2	<.04	<.8	.210	1.8	570
14...	.005	<.006	.044	--	--	--	--	--	--	--	--	--	580
14...	.003	E.005	.045	--	--	--	--	--	--	--	--	--	800
JUN													
23...	<.002	<.02	.032	6.5	3.8	<.1	--	--	--	--	--	--	130
23...	<.002	<.02	.035	--	--	--	--	--	--	--	--	--	290
23...	.002	<.02	.042	--	--	--	--	--	--	--	--	--	1,100
AUG													
11...	<.004	<.012	.025	6.7	4.1	<.1	--	--	--	--	--	--	60
11...	--	--	--	--	3.8	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	2.5	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	3.1	<.1	--	--	--	--	--	--	--
11...	--	--	--	--	4.4	<.1	--	--	--	--	--	--	--
11...	<.002	<.04	.023	--	--	--	--	--	--	--	--	--	90
11...	<.002	<.04	.037	--	--	--	--	--	--	--	--	--	2,060

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
25...	.27	170	.01	E.1	.47	E.3	<.16	9
25...	--	499	--	--	--	--	--	--
25...	--	2,410	--	--	--	--	--	--
APR								
14...	.39	41	.02	<.2	.50	.8	<.16	3
14...	--	39.8	--	--	--	--	--	--
14...	--	132	--	--	--	--	--	--
JUN								
23...	--	26.2	--	--	--	--	--	--
23...	--	185	--	--	--	--	--	--
23...	--	377	--	--	--	--	--	--
AUG								
11...	--	30.4	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	38.2	--	--	--	--	--	--
11...	--	924	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water
R -- Quality-control sample, surface water

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC—Continued



02086500 FLAT RIVER AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°08'55", long 78°49'44", Durham County, Hydrologic Unit 03020201, on right bank 900 ft downstream from Durham municipal dam, 3 mi southeast of Bahama, and 5 mi upstream from confluence with Eno River.

DRAINAGE AREA.--168 mi^2.

PERIOD OF RECORD.--September 1927 to September 1959, August 1961 to September 1966, October 1982 to September 1990, October 1992 to September 1993, October 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 256.6 ft above NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated by Lake Michie (station 02086490). An average of 47.9 ft^3/s was diverted above station from Lake Michie and Little River Lake. About 13.0 ft^3/s of treated effluent was returned to tributaries downstream. No flow also occurred on Sept. 4-14, 1938 (result of construction work upstream), Sept. 26-30, 1965, and Oct. 1-3, 5, 1988. No flow occurs many times most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 6, 1996, reached a stage of 23.48 ft, present datum, from floodmarks; discharge, 20,900 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	39	154	56	230	951	207	92	39	0.09	0.03	0.02
2	40	39	124	54	158	411	291	174	40	0.08	0.02	0.01
3	40	39	106	52	143	249	431	97	39	0.07	0.02	0.01
4	39	39	87	51	395	183	247	62	38	0.06	0.02	0.01
5	38	39	74	53	299	159	170	47	37	0.03	0.02	0.02
6	38	53	68	53	197	144	147	56	37	0.04	0.02	0.03
7	38	53	70	51	147	131	148	54	37	0.09	0.02	0.03
8	38	45	68	49	123	196	277	56	37	0.05	0.02	0.02
9	38	40	68	47	115	366	224	49	37	0.02	0.04	0.02
10	38	39	4,080	46	117	227	161	44	37	0.02	0.02	0.02
11	38	39	1,710	45	122	171	128	42	37	0.02	0.04	0.02
12	38	42	511	44	103	151	109	42	37	0.02	0.02	0.03
13	38	1,330	299	47	88	137	118	42	37	0.02	0.02	0.03
14	38	410	207	2,640	86	e133	162	42	37	0.03	0.02	0.02
15	37	192	150	1,480	98	e123	136	41	37	0.03	0.02	0.02
16	37	125	122	454	117	82	100	42	38	0.02	0.02	0.02
17	37	94	108	273	104	656	85	42	38	0.02	0.02	0.02
18	37	77	98	183	87	923	80	42	38	0.02	0.02	0.02
19	37	65	92	138	70	433	76	43	38	0.02	0.02	0.02
20	38	58	81	112	66	285	73	44	37	0.01	0.02	0.02
21	38	51	71	e111	66	202	71	43	36	0.01	0.02	0.02
22	38	47	66	121	69	151	65	43	0.55	0.12	0.02	0.02
23	38	57	78	107	69	177	68	43	0.31	0.05	0.02	0.02
24	38	157	129	e97	84	318	67	43	0.16	0.02	0.02	0.01
25	38	362	139	e83	192	258	60	44	0.15	0.02	0.02	0.01
26	38	256	101	79	184	153	55	43	0.15	0.02	0.02	0.02
27	38	142	81	84	133	123	53	42	0.15	0.03	0.02	0.02
28	38	470	68	70	520	1,130	49	42	0.22	0.02	0.02	0.01
29	38	430	61	61	---	1,120	50	41	0.12	0.04	0.02	0.01
30	38	219	60	e83	---	448	53	40	0.08	0.02	0.02	0.02
31	39	---	58	303	---	270	---	39	---	0.03	0.02	---
TOTAL	1,181	5,048	9,189	7,127	4,182	10,461	3,961	1,616	789.89	1.14	0.67	0.57
MEAN	38.1	168	296	230	149	337	132	52.1	26.3	0.04	0.02	0.02
MAX	40	1,330	4,080	2,640	520	1,130	431	174	40	0.12	0.04	0.03
MIN	37	39	58	44	66	82	49	39	0.08	0.01	0.02	0.01
CFSM	0.23	1.00	1.76	1.37	0.89	2.01	0.79	0.31	0.16	0.00	0.00	0.00
IN.	0.26	1.12	2.03	1.58	0.93	2.32	0.88	0.36	0.17	0.00	0.00	0.00

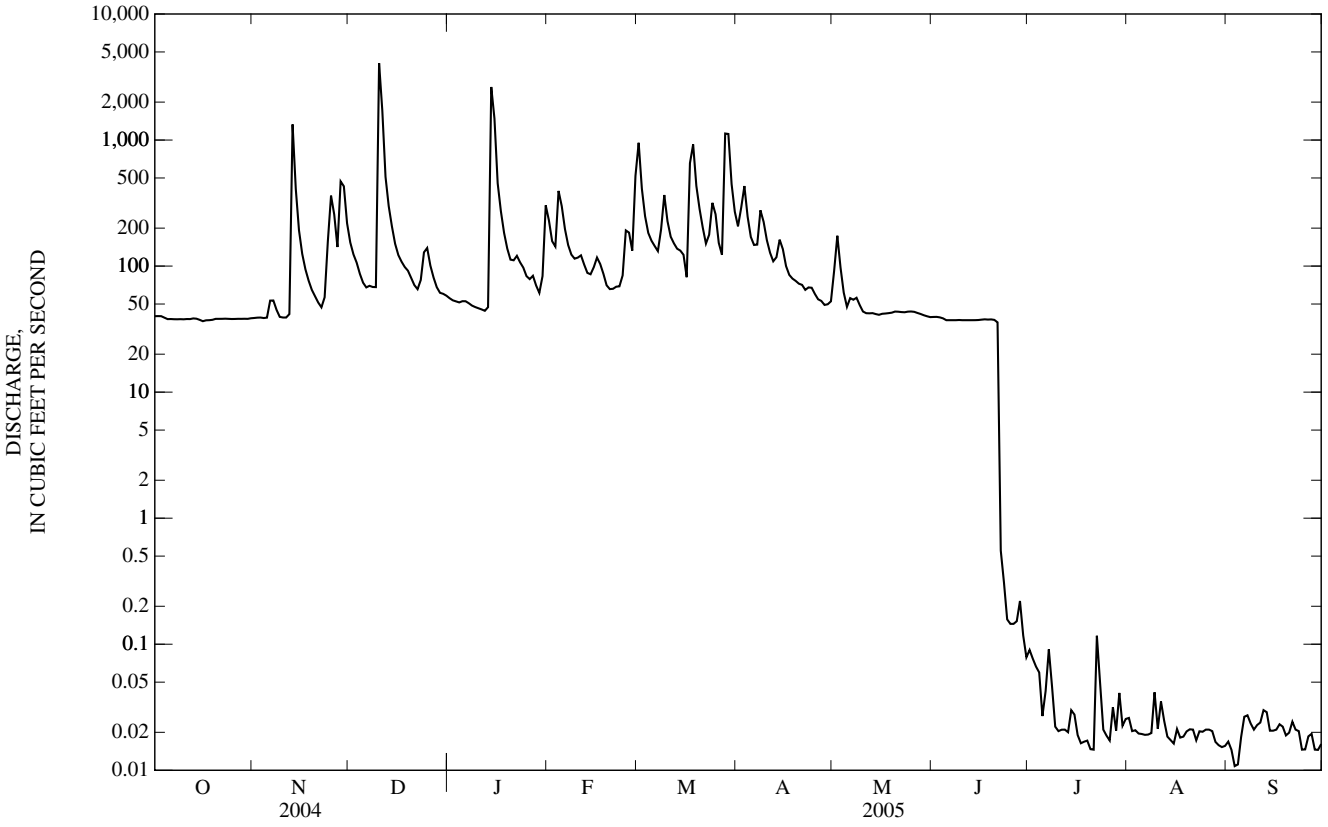
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005,@ BY WATER YEAR (WY)

MEAN	63.7	99.1	145	212	284	316	270	120	79.7	88.2	87.7	74.8
MAX	530	496	444	759	614	1,041	856	476	491	795	481	714
(WY)	(1930)	(1986)	(2003)	(1937)	(1948)	(1993)	(2003)	(2003)	(1938)	(1938)	(1939)	(1945)
MIN	0.05	0.03	0.05	0.07	0.06	21.5	8.91	0.06	0.06	0.01	0.02	0.02
(WY)	(1988)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2005)	(2005)

02086500 FLAT RIVER AT DAM NEAR BAHAMA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005[@]	
ANNUAL TOTAL	42,790.46		43,557.27			
ANNUAL MEAN	117		119		152	
HIGHEST ANNUAL MEAN					406	2003
LOWEST ANNUAL MEAN					2.63	2002
HIGHEST DAILY MEAN	4,080	Dec 10	4,080	Dec 10	10,500	Oct 2, 1929
LOWEST DAILY MEAN	0.01	Jul 6	0.01	Jul 20	0.00	Sep 4, 1938
ANNUAL SEVEN-DAY MINIMUM	0.01	Jul 6	0.01	Sep 23	0.00	Sep 4, 1938
MAXIMUM PEAK FLOW			7,810	Dec 10	19,700	Jul 26, 1938
MAXIMUM PEAK STAGE			13.53	Dec 10	19.50	Jul 26, 1938
INSTANTANEOUS LOW FLOW			0.01	Jul 10	0.00*	Sep 4, 1938
ANNUAL RUNOFF (CFSM)	0.696		0.710		0.908	
ANNUAL RUNOFF (INCHES)	9.48		9.64		12.33	
10 PERCENT EXCEEDS	218		237		309	
50 PERCENT EXCEEDS	55		44		58	
90 PERCENT EXCEEDS	0.03		0.02		0.36	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC

LOCATION.--Lat 36°07'55", long 78°50'00", Durham County, Hydrologic Unit 03020201, on left bank at culvert on Secondary Road 1680, 1.5 mi southeast of Willardville.

DRAINAGE AREA.--1.14 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1988 to September 1990, October 1994 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map.

REMARKS.--No estimated daily discharges. Records good except those for April 29 to June 2, which are poor, due to effects of beaver dams on the gage height-discharge relationship. No flow at times during most years. Maximum discharge for period of record, from rating curve extended above 70 ft^3/s, on basis of computation of flow through culvert with road overflow. Maximum gage height for period of record from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.06	0.24	0.47	0.19	0.90	2.9	1.2	0.59	0.08	0.01	0.02	0.00
2	0.09	0.27	0.40	0.19	0.71	1.5	4.9	0.58	0.17	0.04	0.00	0.00
3	0.07	0.32	0.34	0.19	1.3	1.1	2.6	0.64	0.25	0.02	0.00	0.00
4	0.06	0.35	0.30	0.19	1.8	0.92	1.6	0.62	0.14	0.01	0.00	0.00
5	0.10	0.23	0.28	0.19	1.1	0.90	1.2	0.55	0.08	0.01	0.00	0.00
6	0.13	0.16	0.26	0.19	0.81	0.82	1.1	0.43	0.05	0.00	0.00	0.00
7	0.13	0.14	0.33	0.19	0.70	0.77	1.9	0.39	0.06	0.03	0.00	0.00
8	0.14	0.16	0.30	0.19	0.65	3.1	3.4	0.44	0.08	0.07	0.00	0.00
9	0.15	0.17	0.33	0.19	0.62	2.0	2.7	0.44	0.33	0.01	0.00	0.00
10	0.16	0.16	6.7	0.19	0.61	1.3	1.5	0.38	0.33	0.00	0.00	0.00
11	0.14	0.15	1.5	0.16	0.56	1.1	1.2	0.30	0.15	0.00	0.00	0.00
12	0.16	1.7	0.64	0.18	0.52	1.1	1.0	0.35	0.08	0.01	0.00	0.00
13	0.91	2.0	0.46	0.38	0.52	0.91	1.1	0.32	0.06	0.00	0.00	0.00
14	1.1	0.57	0.35	18	0.56	0.90	0.96	0.37	0.06	0.02	0.00	0.00
15	0.37	0.36	0.29	2.8	0.55	0.79	0.81	0.33	0.04	0.02	0.00	0.00
16	0.24	0.29	0.26	1.4	0.53	1.5	0.72	0.28	0.02	0.00	0.00	0.00
17	0.18	0.24	0.25	0.96	0.49	7.3	0.70	0.27	0.02	0.00	0.00	0.00
18	0.15	0.22	0.25	0.74	0.46	2.9	0.67	0.33	0.02	0.00	0.00	0.00
19	0.16	0.20	0.25	0.67	0.43	1.7	0.65	0.34	0.02	0.00	0.00	0.00
20	0.20	0.19	0.22	0.65	0.44	1.3	0.60	0.32	0.03	0.00	0.00	0.00
21	0.19	0.19	0.22	0.65	0.48	1.1	0.57	0.21	0.02	0.00	0.00	0.00
22	0.17	0.18	0.21	0.62	0.47	0.93	0.55	0.17	0.03	0.01	0.00	0.00
23	0.15	0.45	0.32	0.57	0.43	1.6	0.59	0.16	0.03	0.02	0.00	0.00
24	0.16	1.3	0.30	0.53	0.82	2.7	0.55	0.31	0.02	0.00	0.00	0.00
25	0.15	0.69	0.25	0.56	0.88	1.6	0.50	0.19	0.02	0.00	0.00	0.00
26	0.13	0.39	0.22	0.56	0.67	1.2	0.50	0.34	0.02	0.00	0.00	0.00
27	0.13	0.31	0.20	0.47	0.60	1.1	0.50	0.26	0.03	0.00	0.00	0.00
28	0.13	3.7	0.19	0.39	6.7	12	0.46	0.22	0.06	0.00	0.00	0.00
29	0.13	0.95	0.19	0.42	---	3.6	0.56	0.30	0.05	0.01	0.00	0.00
30	0.16	0.56	0.19	1.5	---	1.8	0.60	0.17	0.03	0.02	0.00	0.00
31	0.19	---	0.19	1.4	---	1.4	---	0.09	---	0.02	0.00	---
TOTAL	6.39	16.84	16.66	35.51	25.31	63.84	35.89	10.69	2.38	0.33	0.02	0.00
MEAN	0.21	0.56	0.54	1.15	0.90	2.06	1.20	0.34	0.08	0.01	0.00	0.00
MAX	1.1	3.7	6.7	18	6.7	12	4.9	0.64	0.33	0.07	0.02	0.00
MIN	0.06	0.14	0.19	0.16	0.43	0.77	0.46	0.09	0.02	0.00	0.00	0.00
CFSM	0.18	0.49	0.47	1.00	0.79	1.81	1.05	0.30	0.07	0.01	0.00	0.00
IN.	0.21	0.55	0.54	1.16	0.83	2.08	1.17	0.35	0.08	0.01	0.00	0.00

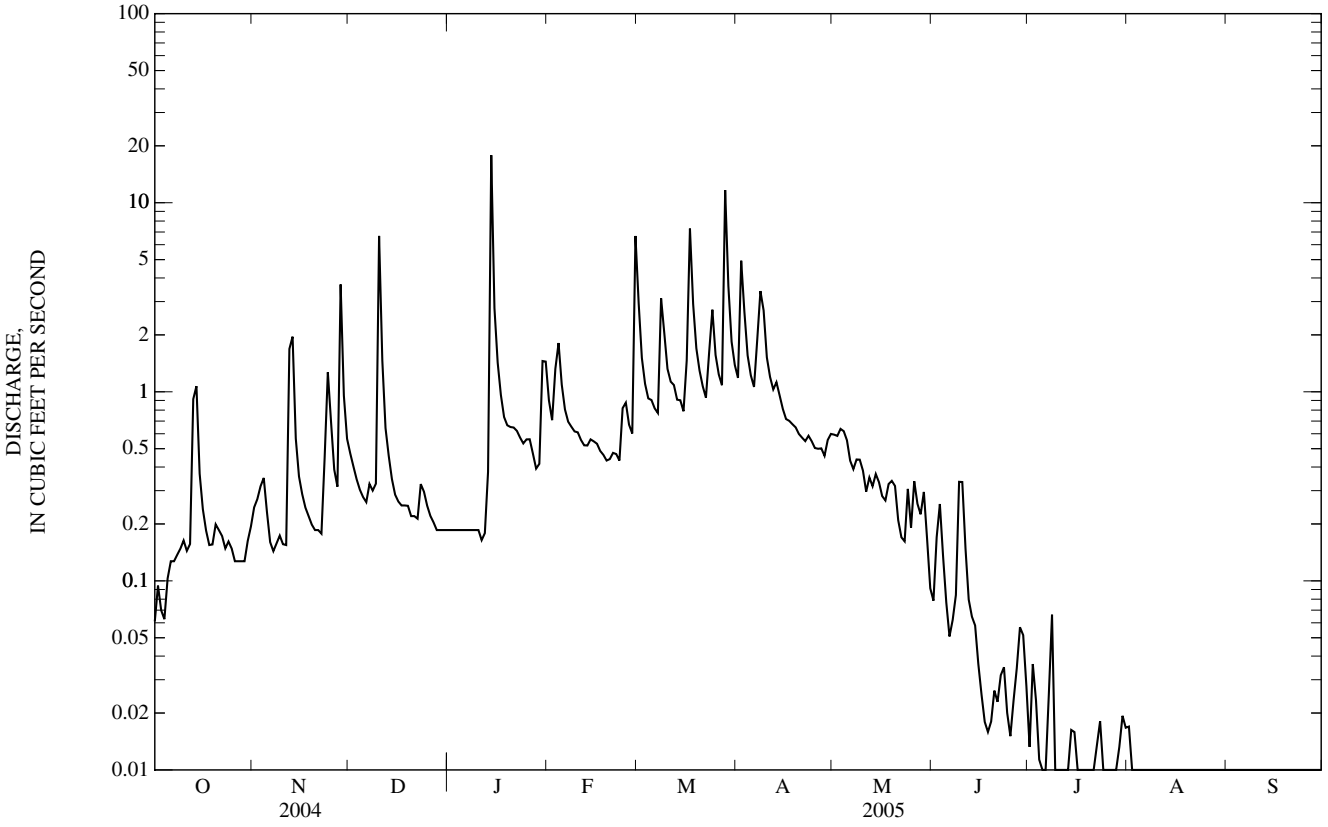
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005,@ BY WATER YEAR (WY)

MEAN	0.59	0.45	0.85	1.58	2.01	2.37	1.52	0.66	0.47	0.23	0.14	1.18
MAX	4.01	1.27	3.26	3.17	5.41	8.30	5.04	2.20	4.07	1.26	0.50	8.60
(WY)	(2003)	(1996)	(1990)	(1998)	(1998)	(1998)	(2003)	(1989)	(1995)	(1989)	(1989)	(1996)
MIN	0.01	0.06	0.01	0.16	0.27	0.36	0.06	0.01	0.05	0.00	0.00	0.00
(WY)	(2002)	(2001)	(1989)	(2001)	(2002)	(2002)	(1995)	(2002)	(1988)	(1988)	(2005)	(1990)

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005[@]	
ANNUAL TOTAL	171.35		213.86			
ANNUAL MEAN	0.47		0.59		1.02	
HIGHEST ANNUAL MEAN					2.00	2003
LOWEST ANNUAL MEAN					0.16	2002
HIGHEST DAILY MEAN	6.7	Dec 10	18	Jan 14	225	Sep 6, 1996
LOWEST DAILY MEAN	0.00	Jul 7	0.00	Jul 6	0.00	Jun 22, 1988
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 7	0.00	Aug 2	0.00	Jul 2, 1988
MAXIMUM PEAK FLOW			71	Jan 14	1,410*	Sep 6, 1996
MAXIMUM PEAK STAGE			4.38	Jan 14	7.77*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Jul 1	0.00*	Jun 15, 1988
ANNUAL RUNOFF (CFSM)	0.411		0.514		0.898	
ANNUAL RUNOFF (INCHES)	5.59		6.98		12.20	
10 PERCENT EXCEEDS	0.91		1.3		1.8	
50 PERCENT EXCEEDS	0.26		0.22		0.21	
90 PERCENT EXCEEDS	0.04		0.00		0.00	

[@] See PERIOD OF RECORD.
* See REMARKS.



0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-91, 1994 to current year

REMARKS.--Station operated to define the impacts of various land-use development on surface-water quality in the Upper Neuse River basin.

COOPERATION.--For the period February 1988 through June 1989 the inorganic chemical data and trace metal data were analyzed by the city of Durham's Brown Water Treatment Plant Laboratory.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
05...	1100	.15	767	8.5	87	6.4	100	16.9	.13	.11	<.04	<.06	<.008
NOV													
22...	1500	.19	754	10.2	100	7.5	116	13.7	.30	.15	<.04	E.04	<.008
DEC													
21...	1630	.22	759	12.9	95	6.8	61	2.7	.11	E.08	<.04	.12	<.008
FEB													
10...	1615	.57	752	10.7	94	6.8	70	9.1	.10	.12	<.04	<.06	<.008
APR													
07...	1200	.95	749	9.4	97	6.4	64	15.8	.16	.15	<.04	<.06	<.008
JUN													
02...	1530	.22	752	8.7	89	7.3	91	16.2	.15	.24	<.04	.15	<.008

Date	Total nitrogen, water, fltrd, mg/L (00602)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd mg/L (00665)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)
OCT													
05...	--	--	<.02	<.04	<.04	51	<2	E.02	<.8	.346	.6	700	.11
NOV													
22...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
DEC													
21...	.23	--	<.02	<.04	<.04	54	<2	<.04	<.8	.329	1.2	370	.07
FEB													
10...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
APR													
07...	--	--	<.02	<.04	<.04	--	--	--	--	--	--	--	--
JUN													
02...	.30	.39	<.02	<.04	E.02	--	--	--	--	--	--	--	--

Date	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT									
05...	51	<.01	E.1	.44	E.3	<.16	<2	5	.00
NOV									
22...	--	--	--	--	--	--	--	6	.00
DEC									
21...	49	<.01	<.2	.35	<.4	<.16	E1	3	.00
FEB									
10...	--	--	--	--	--	--	--	4	.01
APR									
07...	--	--	--	--	--	--	--	11	.03
JUN									
02...	--	--	--	--	--	--	--	15	.01

02086920 FALLS LAKE AT INTERSTATE 85 NEAR REDWOOD, NC

LOCATION.--Lat 36°04'11", long 78°46'45", Durham County, Hydrologic Unit 03020201, at bridge on Interstate 85, 1.7 mi north of Redwood.

PERIOD OF RECORD.--Water years 1989 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and April 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
04...	1030	9	30	1.0	.20	757	2.1	28	7.1	240	28.9	47	11.9
04...	1035	9	--	2.0	--	757	1.4	18	7.0	243	28.1	--	--
04...	1040	9	--	4.0	--	757	.1	2	7.0	271	27.0	--	--

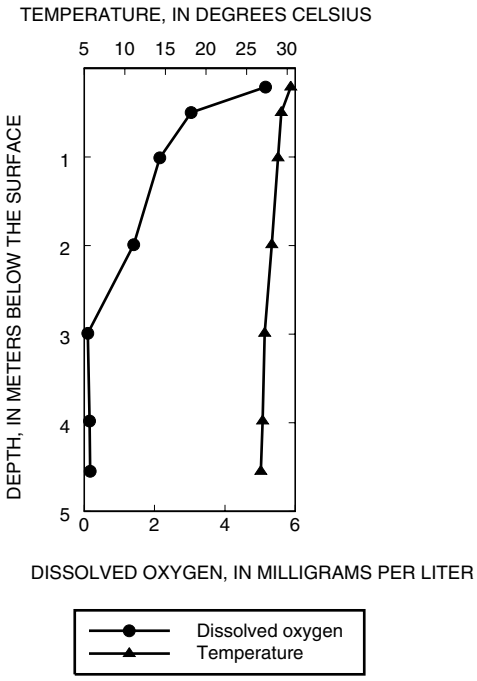
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
04...	4.14	4.09	22.7	52	63	22.9	.3	8.59	10.0	138	1.2	E.007	<.016
04...	--	--	--	--	--	--	--	--	--	--	1.1	.136	<.016
04...	--	--	--	--	--	--	--	--	--	--	1.5	.540	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
04...	<.002	<.02	.17	12.7	35.9	4.3	1,780	852
04...	<.002	<.02	.17	--	--	--	1,990	1,090
04...	<.002	<.02	.21	--	--	--	2,430	2,070

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water

02086920 FALLS LAKE AT INTERSTATE 85 NEAR REDWOOD, NC—Continued



0208703650 FALLS LAKE AT STATE HIGHWAY 50 NEAR SANDY PLAIN, NC

LOCATION.--Lat 36°00'55", long 78°41'28", Wake County, Hydrologic Unit 03020201, at bridge on State Highway 50, 3.3 mi south of Sandy Plain.

PERIOD OF RECORD.--Water years 1989 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and May 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
03...	1045	9	15	1.0	1.10	756	7.2	96	8.2	123	29.8	31	7.39
03...	1050	9	--	2.0	--	756	6.3	84	7.5	124	29.5	--	--
03...	1055	9	--	4.0	--	756	2.7	35	6.8	126	28.7	--	--

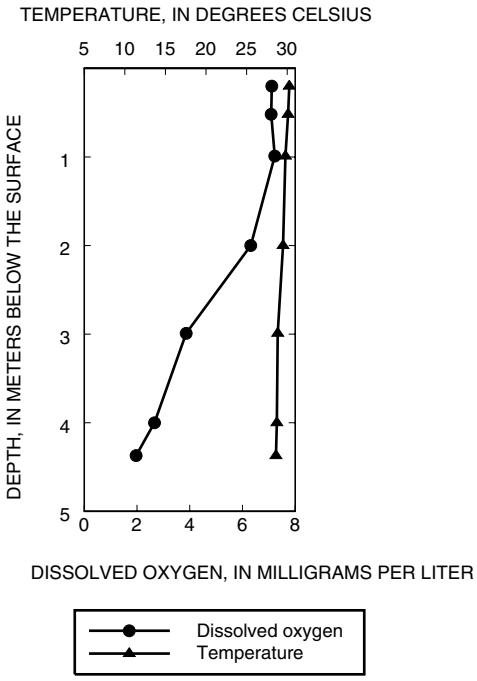
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
03...	2.99	2.13	7.77	29	35	9.20	.1	5.47	5.5	75	.62	<.010	<.016
03...	--	--	--	--	--	--	--	--	--	--	.62	E.005	<.016
03...	--	--	--	--	--	--	--	--	--	--	.61	.052	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
03...	E.001	<.006	.043	8.8	10.6	<.1	80	101
03...	E.001	<.006	.043	--	--	--	100	112
03...	E.001	<.006	.034	--	--	--	140	169

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water

0208703650 FALLS LAKE AT STATE HIGHWAY 50 NEAR SANDY PLAIN, NC—Continued



0208708905 FALLS LAKE AT STATE HIGHWAY 98 NEAR BAYLEAF, NC

LOCATION.--Lat 35°58'43", long 78°37'58", Wake County, Hydrologic Unit 03020201, at bridge on State Highway 98, 2.0 mi north of Bayleaf.

PERIOD OF RECORD.--Water years 1989 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and May 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
03...	0930	9	15	1.0	1.40	756	6.5	87	7.7	108	30.2	28	6.19
03...	0935	9	--	5.0	--	756	.1	2	6.6	124	27.8	--	--
03...	0940	9	--	11.0	--	756	.3	3	6.7	173	18.6	--	--

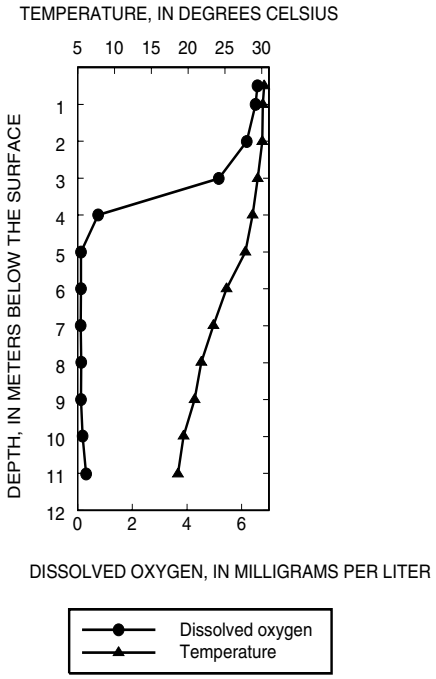
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
03...	2.97	2.21	7.24	24	29	7.71	E.1	4.70	5.6	68	.46	E.005	<.016
03...	--	--	--	--	--	--	--	--	--	--	.54	E.007	<.016
03...	--	--	--	--	--	--	--	--	--	--	1.7	1.25	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
03...	E.001	<.006	.022	7.9	2.9	<.1	50	44.4
03...	<.002	<.006	.035	--	--	--	180	1,050
03...	.003	E.005	.042	--	--	--	5,180	3,070

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0208708905 FALLS LAKE AT STATE HIGHWAY 98 NEAR BAYLEAF, NC—Continued



0208717595 FALLS LAKE AT MILE MARKER 1 NEAR FALLS, NC

LOCATION.--Lat 35°57'19", long 78°35'02", Wake County, Hydrologic Unit 03020201, at mile marker 1, 1.3 mi north of Falls.

PERIOD OF RECORD.--Water years 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
02...	1045	9	10	1.0	1.55	758	6.1	81	7.3	105	29.6	25	5.36
02...	1046	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1047	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1048	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1049	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1050	9	--	4.0	--	758	5.8	76	7.2	106	29.3	--	--
02...	1055	9	--	9.0	--	758	.1	1	6.5	144	20.5	--	--

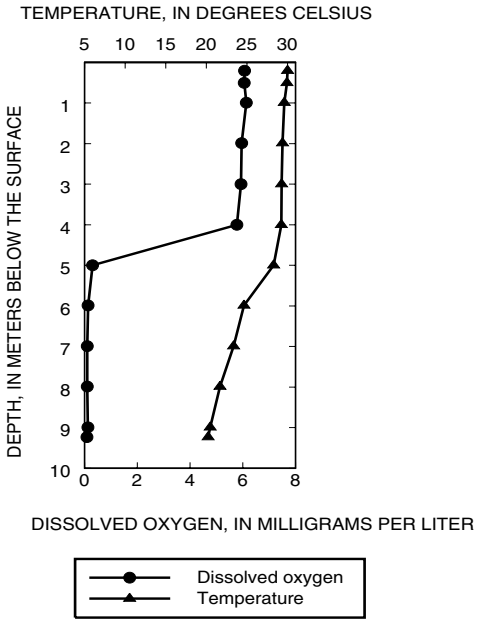
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
02...	2.84	2.21	7.55	20	24	8.01	E.1	4.94	7.3	68	.39	<.010	<.016
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	.43	E.008	<.016
02...	--	--	--	--	--	--	--	--	--	--	.54	.037	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
02...	E.001	<.006	.016	6.4	5.5	<.1	40	43.9
02...	--	--	--	--	7.8	<.1	--	--
02...	--	--	--	--	5.3	<.1	--	--
02...	--	--	--	--	2.6	<.1	--	--
02...	--	--	--	--	6.0	<.1	--	--
02...	<.002	<.006	.020	--	--	--	90	49.7
02...	.002	<.006	.027	--	--	--	2,400	1,740

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water sample.
R -- Quality-control sample, surface water.

0208717595 FALLS LAKE AT MILE MARKER 1 NEAR FALLS, NC—Continued



0208718195 FALLS LAKE ABOVE DAM AT FALLS, NC

LOCATION.--Lat 35°56'29", long 78°35'01", Wake County, Hydrologic Unit 03020201, 0.05 mi above dam, 0.5 mi northwest of Falls.

PERIOD OF RECORD.--Water years 1989 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and May 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
02...	1200	9	12	1.0	1.70	758	6.0	80	7.4	107	29.8	25	5.37
02...	1205	9	--	4.0	--	758	4.6	61	7.0	108	29.5	--	--
02...	1210	9	--	8.0	--	758	.2	2	6.6	130	21.6	--	--

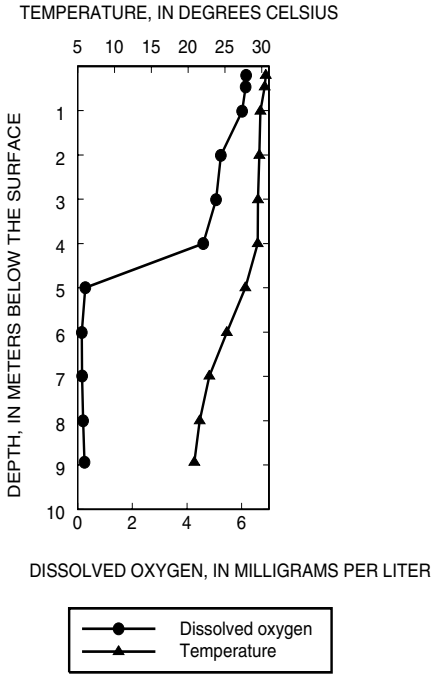
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
02...	2.79	2.25	7.88	22	27	8.15	.1	5.05	8.4	60	.40	E.005	<.016
02...	--	--	--	--	--	--	--	--	--	--	.43	E.006	<.016
02...	--	--	--	--	--	--	--	--	--	--	.53	.053	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
02...	E.001	<.006	.021	6.3	3.3	<.1	40	45.0
02...	E.001	<.006	.020	--	--	--	100	114
02...	E.001	<.006	.034	--	--	--	1,010	1,550

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water

0208718195 FALLS LAKE ABOVE DAM AT FALLS, NC—Continued



02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC

LOCATION.--Lat 35°56'28", long 78°35'00", Wake County, Hydrologic Unit 03020201, on intake tower 50 ft upstream from Falls Lake dam, and 0.3 mi northwest of Falls and 235 mi upstream from mouth.

DRAINAGE AREA.--771 mi^2.

ELEVATION RECORDS

PERIOD OF RECORD.--February 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Lake used for flood control, water supply, low-flow agumentation, and recreation. Temporary filling began May 1981 for water supply for city of Raleigh during drought conditions. Gates were closed on Jan. 13, 1983 and normal pool elevation of 250.1 ft was recorded Dec. 7, 1983. Total capacity of reservoir is 4,998,074,000 ft^3 at elevation of 250.1 ft.

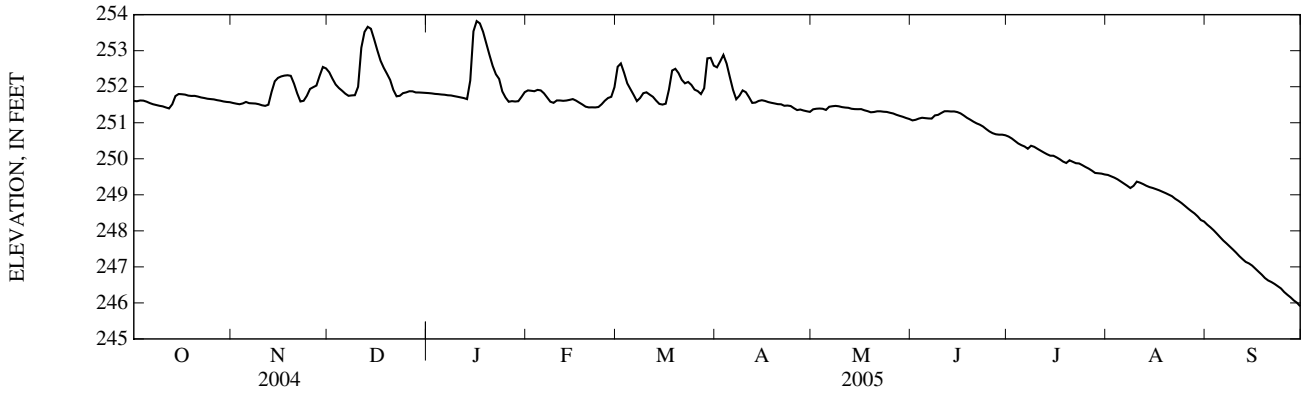
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 264.34 ft, Oct. 1, 2, 1999; minimum elevation, 242.78 ft, Nov. 26, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 253.87 ft, Jan. 16, 17; minimum elevation, 265.86 ft, Sept. 30.

COOPERATION.--Extremes for period of record provided by U.S. Army Corps of Engineers.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251.60	251.55	252.40	251.82	251.90	252.55	252.54	251.37	251.06	250.62	249.55	248.17
2	251.60	251.53	252.22	251.81	251.89	252.65	252.70	251.39	251.08	250.56	249.51	248.10
3	251.62	251.51	252.06	251.80	251.88	252.39	252.88	251.39	251.12	250.49	249.48	248.01
4	251.61	251.54	251.96	251.79	251.91	252.09	252.64	251.39	251.14	250.43	249.43	247.92
5	251.58	251.58	251.89	251.78	251.90	251.93	252.27	251.36	251.13	250.38	249.37	247.83
6	251.55	251.54	251.81	251.78	251.82	251.77	251.91	251.44	251.12	250.34	249.31	247.73
7	251.51	251.54	251.75	251.76	251.70	251.60	251.65	251.46	251.12	250.28	249.25	247.65
8	251.49	251.53	251.76	251.76	251.58	251.69	251.75	251.47	251.20	250.36	249.19	247.57
9	251.47	251.51	251.76	251.74	251.55	251.82	251.90	251.46	251.22	250.33	249.25	247.48
10	251.46	251.49	252.00	251.72	251.62	251.84	251.85	251.43	251.27	250.28	249.37	247.39
11	251.42	251.47	253.08	251.70	251.62	251.78	251.71	251.42	251.32	250.23	249.34	247.30
12	251.40	251.50	253.52	251.68	251.61	251.72	251.55	251.41	251.32	250.17	249.30	247.22
13	251.51	251.86	253.66	251.66	251.62	251.61	251.56	251.39	251.31	250.13	249.25	247.14
14	251.74	252.15	253.61	252.17	251.63	251.52	251.61	251.38	251.31	250.09	249.21	247.10
15	251.80	252.24	253.32	253.54	251.66	251.50	251.62	251.38	251.30	250.08	249.19	247.03
16	251.79	252.29	253.01	253.82	251.62	251.53	251.61	251.38	251.26	250.04	249.16	246.95
17	251.78	252.31	252.72	253.76	251.56	251.92	251.57	251.35	251.20	249.98	249.12	246.87
18	251.75	252.32	252.53	253.52	251.51	252.45	251.55	251.32	251.14	249.92	249.09	246.78
19	251.74	252.30	252.36	253.20	251.45	252.50	251.54	251.29	251.09	249.88	249.05	246.69
20	251.75	252.09	252.19	252.88	251.43	252.38	251.52	251.30	251.03	249.96	249.00	246.62
21	251.73	251.81	251.91	252.58	251.43	252.19	251.51	251.32	250.98	249.92	248.96	246.58
22	251.70	251.59	251.73	252.35	251.43	252.09	251.47	251.32	250.95	249.88	248.89	246.53
23	251.69	251.61	251.75	252.22	251.44	252.13	251.48	251.31	250.90	249.87	248.83	246.46
24	251.67	251.75	251.82	251.87	251.51	252.05	251.46	251.30	250.83	249.82	248.77	246.40
25	251.66	251.94	251.84	251.70	251.61	251.92	251.40	251.28	250.76	249.77	248.69	246.30
26	251.65	251.99	251.87	251.58	251.69	251.88	251.35	251.26	250.71	249.73	248.62	246.23
27	251.63	252.03	251.87	251.60	251.72	251.80	251.37	251.22	250.68	249.67	248.55	246.15
28	251.61	252.30	251.84	251.59	251.99	251.96	251.34	251.19	250.67	249.61	248.48	246.07
29	251.59	252.55	251.84	251.60	---	252.79	251.32	251.17	250.67	249.60	248.40	246.00
30	251.58	252.51	251.84	251.72	---	252.80	251.30	251.13	250.65	249.59	248.30	245.91
31	251.57	---	251.83	251.85	---	252.58	---	251.10	---	249.56	248.26	---
MEAN	251.62	251.86	252.25	252.14	251.65	252.05	251.73	251.33	251.05	250.05	249.04	247.01
MAX	251.80	252.55	253.66	253.82	251.99	252.80	252.88	251.47	251.32	250.62	249.55	248.17
MIN	251.40	251.47	251.73	251.58	251.43	251.50	251.30	251.10	250.65	249.56	248.26	245.91



02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC—Continued

PRECIPITATION RECORDS

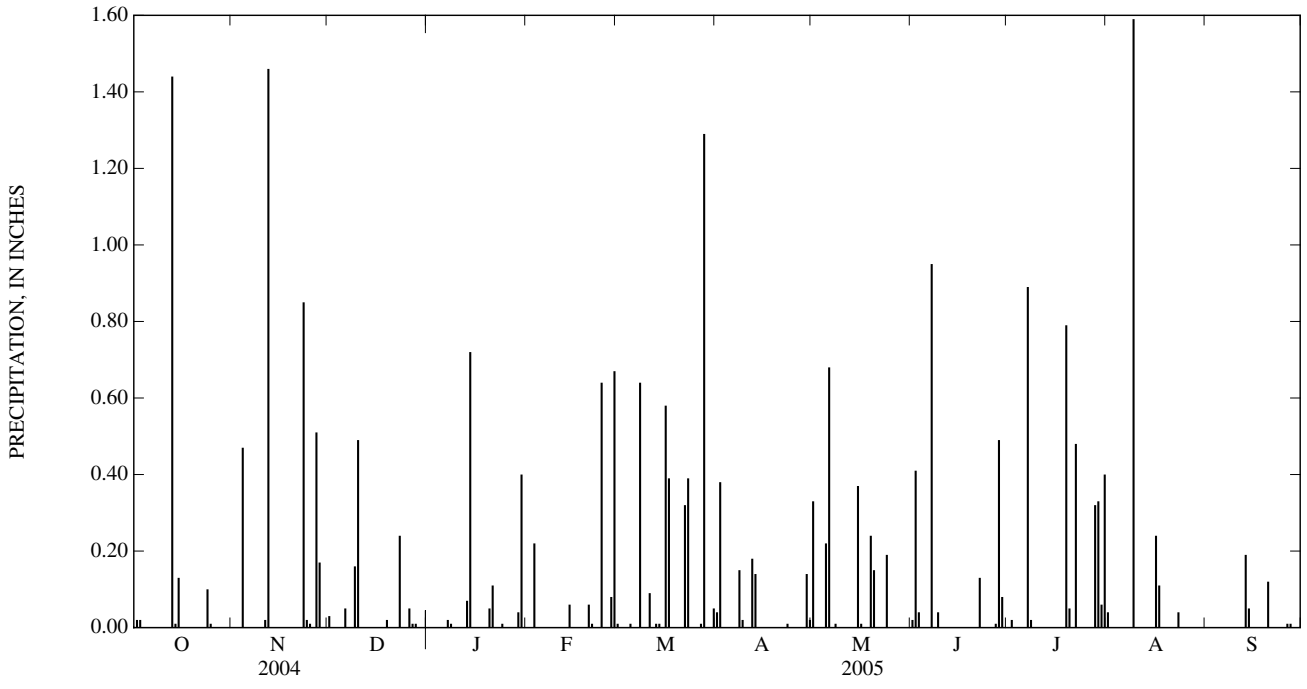
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with the U.S. Army Corps of Engineers. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.03	0.00	0.00	0.01	0.04	0.33	0.02	0.00	0.04	0.00
2	0.02	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.41	0.02	0.00	0.00
3	0.02	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.04	0.00	0.00	0.00
4	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.00	0.00	0.00
6	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.95	0.89	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.64	0.15	0.01	0.00	0.02	0.00	0.00
9	0.00	0.00	0.16	0.00	0.00	0.00	0.02	0.00	0.04	0.00	1.59	0.00
10	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.02	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.46	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00
13	1.44	0.00	0.00	0.07	0.00	0.01	0.14	0.00	0.00	0.00	0.00	0.19
14	0.01	0.00	0.00	0.72	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.05
15	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.01	0.00	0.00	0.24	0.00
17	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.11	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.24	0.00	0.79	0.00	0.00
20	0.00	0.00	0.00	0.05	0.06	0.00	0.00	0.15	0.00	0.05	0.00	0.12
21	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.13	0.48	0.00	0.00
23	0.00	0.85	0.24	0.00	0.00	0.39	0.01	0.00	0.00	0.00	0.04	0.00
24	0.10	0.02	0.00	0.01	0.64	0.00	0.00	0.19	0.00	0.00	0.00	0.00
25	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
27	0.00	0.51	0.01	0.00	0.08	0.01	0.00	0.00	0.01	0.00	0.00	0.01
28	0.00	0.17	0.01	0.00	0.67	1.29	0.00	0.00	0.49	0.32	0.00	0.00
29	0.00	0.00	0.00	0.04	---	0.00	0.14	0.00	0.08	0.33	0.00	0.00
30	0.00	0.00	0.00	0.40	---	0.00	0.02	0.00	0.00	0.06	0.00	0.00
31	0.00	---	0.00	0.00	---	0.05	---	0.00	---	0.40	0.00	---
TOTAL	1.73	3.51	1.06	1.43	1.74	3.80	1.08	2.20	2.17	3.36	2.02	0.38



02087183 NEUSE RIVER NEAR FALLS, NC

LOCATION.--Lat 35°56'24", long 78°34'51", Wake County, Hydrologic Unit 03020201, on right bank 300 ft downstream from Falls Lake Dam, and 0.3 mi northwest of Falls.

DRAINAGE AREA.--771 mi^2.

PERIOD OF RECORD.--July 1970 to current year.

REVISED RECORDS.--WDR NC-91-1: Drainage area. WRD NC 96-1: 1991-95 (M).

GAGE.--Water-stage recorder. Datum of gage is 194.69 ft above NGVD of 1929. Prior to Oct. 1, 1990, water-stage recorder at site 0.4 mi downstream at 182.62 ft. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Falls Lake (station 02087182). June 5, 1980, to May 6, 1981, flows affected by incidental storage in Falls Lake, under construction; May 6, 1981, to Jan. 13, 1983, gates closed and Falls Lake partially filled to provide storage for City of Raleigh water supply; Jan. 13, 1983, gates closed and normal pool elevation, 250.1 ft, reached Dec. 7, 1983. The City of Raleigh diverted an average of 89.1 ft^3/s, 1.2 mi upstream from station for municipal water supply, of which an average of 71.2 ft^3/s was returned downstream as treated effluent. Prior to regulation, maximum discharge: 13,600 ft^3/s, July 17, 1975; gage height: 25.21 ft; minimum discharge: 4.6 ft^3/s, Sept. 24, 1980; gage height: 2.13 ft, at site then in use. Maximum gage-height and discharge for period of record may have been higher during period of estimated record, Aug. 27-Sept. 30, 1996. Minimum discharge for period of record not determined due to intermittent gate closure at dam.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached an elevation of 216.1 ft; discharge, 23,300 ft^3/s at bridge 0.4 mi upstream, from information provided by the U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	181	131	1,330	214	609	739	729	175	125	156	112	192
2	181	132	1,320	214	607	1,910	512	174	125	225	111	190
3	182	132	1,090	215	832	2,400	1,720	173	125	239	110	190
4	182	132	616	216	1,120	1,940	2,520	170	125	239	126	190
5	183	133	615	216	1,110	1,300	2,770	153	125	182	137	190
6	182	132	616	217	1,110	1,290	2,370	e124	125	154	132	189
7	144	132	380	217	1,110	1,120	1,450	127	125	175	163	189
8	120	132	206	217	751	858	807	125	125	176	192	190
9	121	132	207	217	450	925	1,050	123	125	176	178	191
10	122	132	209	217	274	1,020	1,290	123	125	176	154	191
11	122	132	211	217	164	1,020	1,290	124	126	176	154	191
12	122	133	212	217	164	1,020	971	124	126	141	155	191
13	122	133	415	218	164	1,020	430	125	127	110	155	191
14	123	133	1,480	219	164	739	314	125	127	111	155	191
15	124	133	2,130	682	423	353	315	125	127	111	131	189
16	125	133	2,130	1,780	612	353	316	125	126	131	115	189
17	124	132	1,840	1,780	614	356	317	125	167	171	115	185
18	125	132	1,320	2,060	407	1,080	318	125	197	189	117	184
19	125	704	1,320	2,450	257	1,920	319	125	196	189	122	184
20	126	1,670	1,320	2,450	256	1,920	272	125	170	139	145	185
21	127	1,660	1,310	2,110	258	1,490	250	126	158	112	156	158
22	127	803	715	1,770	218	773	253	125	185	110	171	129
23	127	183	211	1,780	190	1,010	255	125	201	110	172	129
24	128	184	212	1,480	190	2,100	256	126	209	108	172	171
25	129	185	212	1,120	190	1,480	228	126	226	109	171	193
26	130	183	213	580	190	973	204	125	226	143	181	193
27	130	183	213	166	190	970	186	125	214	162	205	173
28	130	184	212	167	192	558	175	125	171	161	219	150
29	130	549	213	166	---	1,680	176	125	119	136	219	149
30	130	1,330	213	167	---	2,730	176	125	119	112	220	149
31	131	---	213	426	---	2,060	---	125	---	113	203	---
TOTAL	4,255	10,199	22,904	24,165	12,816	39,107	22,239	4,093	4,567	4,742	4,868	5,376
MEAN	137	340	739	780	458	1,262	741	132	152	153	157	179
MAX	183	1,670	2,130	2,450	1,120	2,730	2,770	175	226	239	220	193
MIN	120	131	206	166	164	353	175	123	119	108	110	129
†	-12	187	-126	12	84	64	-251	-63	-87	-198	-221	-332

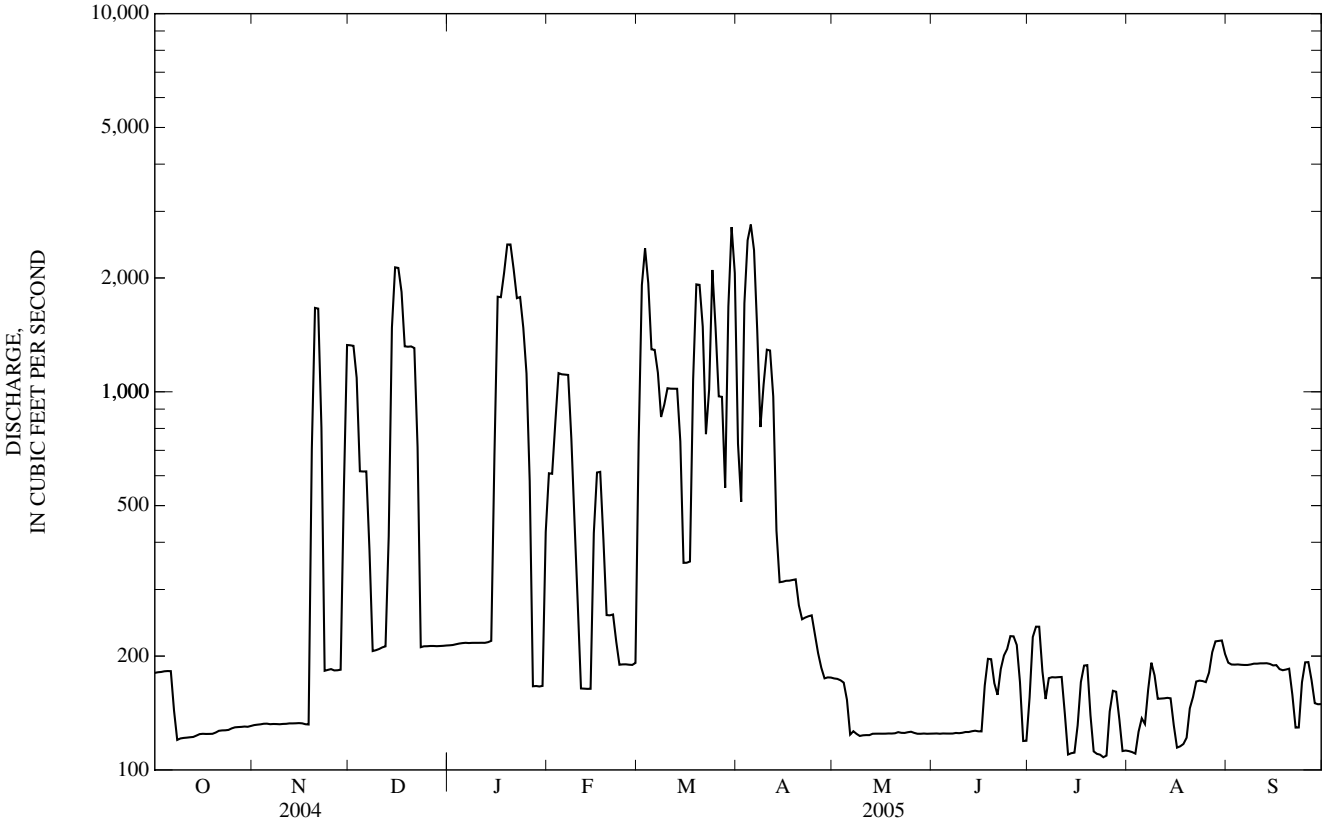
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,* BY WATER YEAR (WY)

MEAN	399	377	569	776	1,169	1,531	1,210	516	323	307	305	424
MAX	3,217	1,535	1,883	2,014	3,462	3,992	3,687	1,821	1,427	1,501	1,099	3,953
(WY)	(2000)	(1996)	(2003)	(1984)	(1998)	(1989)	(2003)	(1989)	(2003)	(1995)	(1989)	(1996)
MIN	72.6	65.2	63.3	66.3	67.0	68.4	118	110	126	61.7	61.0	67.8
(WY)	(1984)	(1984)	(1992)	(2002)	(2002)	(2002)	(1995)	(1995)	(1987)	(1983)	(1983)	(1985)

02087183 NEUSE RIVER NEAR FALLS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005*	
ANNUAL TOTAL	144,107		159,331			
ANNUAL MEAN	394		437	‡358	656	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1,312	2003
LOWEST ANNUAL MEAN					123	2002
HIGHEST DAILY MEAN	2,680	Feb 11	2,770	Apr 5	7,420	Sep 16, 1996
LOWEST DAILY MEAN	107	May 14	108	Jul 24	55	Jan 10, 1995
ANNUAL SEVEN-DAY MINIMUM	107	May 14	117	Jul 29	56	Jan 10, 1995
MAXIMUM PEAK FLOW			2,970	Apr 5	7,650*	Sep 16, 1996
MAXIMUM PEAK STAGE			3.54	Apr 5	8.05*	Sep 16, 1996
INSTANTANEOUS LOW FLOW			105	Jul 26	NOT DETERMINED	
10 PERCENT EXCEEDS	1,290		1,320		2,130	
50 PERCENT EXCEEDS	226		185		181	
90 PERCENT EXCEEDS	112		125		98	

† Change in contents, equivalent in cubic feet per second, in Falls Reservoir, provided by U.S. Army Corps of Engineers.
* Regulated period only (1983-2005). See REMARKS.
‡ Adjusted for change in contents.
e Estimated.



0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC

LOCATION.--Lat 35°50'43", long 78°43'28", Wake County, Hydrologic Unit 03020201, on upstream side of bridge on Secondary Road 1649, 0.1 mi downstream from Sycamore Creek, and 6.6 mi northwest of Raleigh.

DRAINAGE AREA.--76 mi^2.

PERIOD OF RECORD.--December 1987 to September 1992, May 1997 to current year. December 1987 to September 1992, published as "Crabtree Creek at Secondary Road 1649 near Raleigh, NC".

GAGE.--Water-stage recorder. Datum of gage is 225.00 ft above NGVD of 1929, from levels. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Flow regulated by flood-control dams upstream. Minimum discharge for period of record due to regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	21	103	24	89	365	93	41	15	14	169	10
2	51	20	76	23	73	223	109	39	27	15	102	9.6
3	49	20	61	23	99	142	188	32	29	13	68	8.8
4	167	31	51	23	188	98	152	27	24	12	48	8.7
5	122	49	44	23	148	75	104	23	22	12	36	8.4
6	82	35	40	23	107	61	71	78	21	12	28	9.4
7	59	31	38	22	81	52	55	71	232	e22	21	8.7
8	45	28	36	22	65	270	252	54	395	e200	19	8.6
9	36	24	37	22	55	293	403	43	190	172	371	8.5
10	30	21	258	22	51	186	252	35	112	107	459	7.7
11	26	20	295	21	43	127	164	30	78	68	334	8.0
12	23	88	195	20	36	104	112	27	56	47	234	9.2
13	129	375	129	21	34	78	153	33	43	34	167	8.5
14	229	208	85	497	33	75	144	26	34	30	281	8.9
15	183	130	64	544	37	65	105	25	28	24	263	8.9
16	124	85	52	331	37	118	79	26	24	19	126	8.2
17	80	64	45	188	34	617	65	23	20	16	115	7.9
18	58	51	40	115	31	475	56	20	15	15	81	7.8
19	47	44	37	78	27	280	49	20	14	12	60	9.6
20	40	38	36	62	26	179	43	30	14	116	e40	13
21	34	34	31	60	29	123	39	54	11	88	e42	60
22	30	31	29	54	30	86	34	41	14	78	e35	38
23	27	109	35	52	28	114	32	35	14	100	36	28
24	26	196	44	43	115	158	30	29	12	59	31	22
25	26	166	38	39	158	128	27	26	12	43	25	19
26	24	108	36	38	118	96	24	22	12	35	20	17
27	23	77	34	35	85	75	24	19	13	25	15	16
28	21	301	31	31	392	119	23	17	14	e26	14	14
29	21	219	28	29	---	178	23	15	16	e545	14	12
30	20	147	28	92	---	151	24	14	15	402	12	11
31	21	---	25	105	---	115	---	14	---	228	12	---
TOTAL	1,910	2,771	2,081	2,682	2,249	5,226	2,929	989	1,526	2,589	3,278	415.4
MEAN	61.6	92.4	67.1	86.5	80.3	169	97.6	31.9	50.9	83.5	106	13.8
MAX	229	375	295	544	392	617	403	78	395	545	459	60
MIN	20	20	25	20	26	52	23	14	11	12	12	7.7
CFSM	0.81	1.22	0.88	1.14	1.06	2.22	1.28	0.42	0.67	1.10	1.39	0.18
IN.	0.93	1.36	1.02	1.31	1.10	2.56	1.43	0.48	0.75	1.27	1.60	0.20

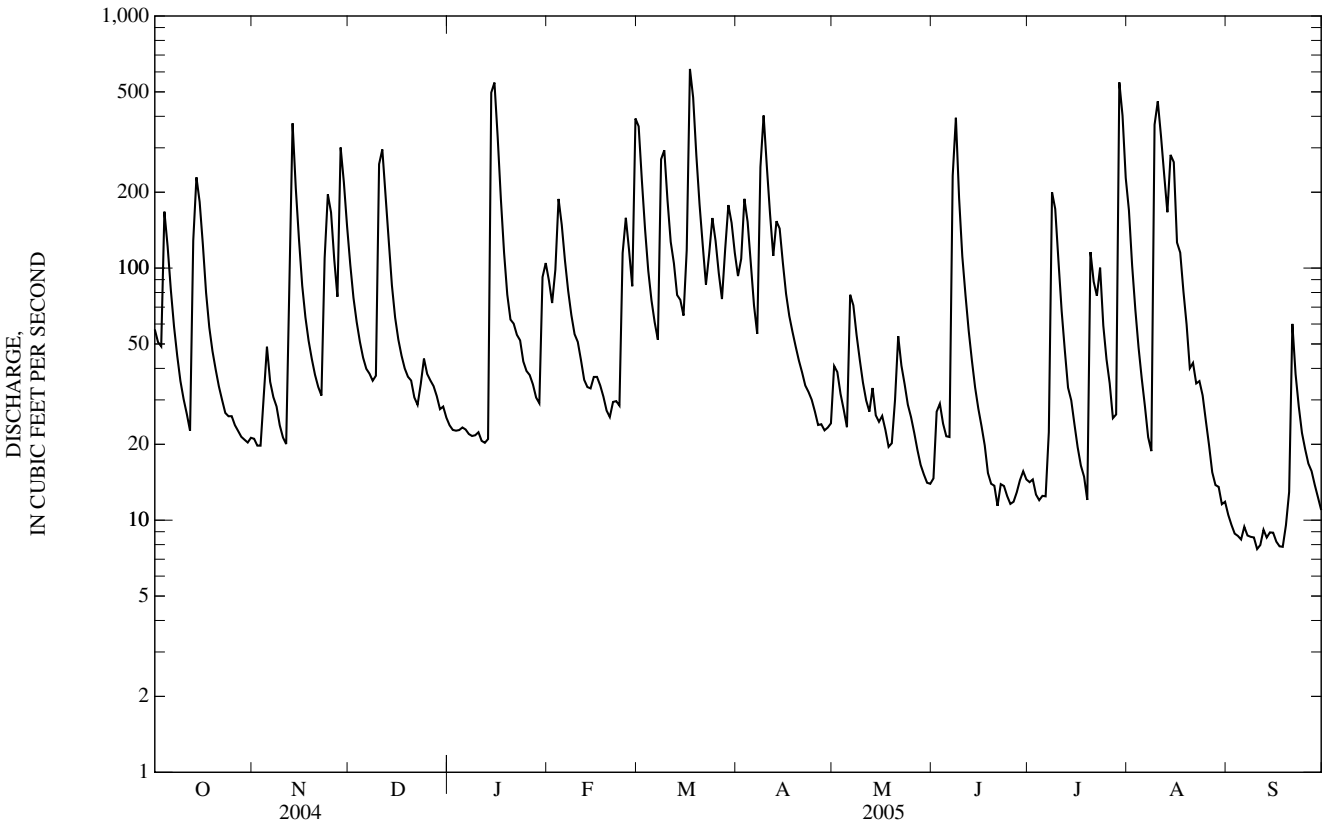
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005,@ BY WATER YEAR (WY)

MEAN	70.4	61.1	71.8	122	133	166	96.8	50.1	50.8	58.2	75.2	94.6
MAX	276	165	255	370	364	393	260	144	136	113	246	743
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(2001)	(1997)	(2004)	(1999)
MIN	13.6	23.8	14.4	23.1	16.2	25.0	32.5	9.30	9.34	9.15	6.74	5.35
(WY)	(1992)	(1992)	(1991)	(2001)	(1991)	(1988)	(1992)	(2002)	(1999)	(1988)	(1990)	(1990)

0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005[@]	
ANNUAL TOTAL	34,727.0		28,645.4			
ANNUAL MEAN	94.9		78.5		91.5	
HIGHEST ANNUAL MEAN					170	2003
LOWEST ANNUAL MEAN					46.6	1992
HIGHEST DAILY MEAN	1,340	Aug 14	617	Mar 17	3,250	Sep 16, 1999
LOWEST DAILY MEAN	9.0	May 29	7.7	Sep 10	2.1	Dec 18, 1990
ANNUAL SEVEN-DAY MINIMUM	12	May 28	8.5	Sep 7	2.6	Dec 12, 1990
MAXIMUM PEAK FLOW			974	Apr 8	4,720	Sep 16, 1999
MAXIMUM PEAK STAGE			9.00	Apr 8	19.78	Sep 16, 1999
INSTANTANEOUS LOW FLOW			3.8	Sep 17	1.5*	Oct 12, 1997
ANNUAL RUNOFF (CFSM)	1.25		1.03		1.20	
ANNUAL RUNOFF (INCHES)	17.00		14.02		16.36	
10 PERCENT EXCEEDS	207		189		206	
50 PERCENT EXCEEDS	49		38		36	
90 PERCENT EXCEEDS	20		14		9.2	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC

LOCATION.--Lat 35°50'17", long 78°40'27", Wake County, Hydrologic Unit 030200201, on left bank at upstream side of bridge on U.S. Highway 70, 0.6 mi upstream from Mine Creek, 4.4 mi northwest of Raleigh.

DRAINAGE AREA.--97.6 mi^2.

PERIOD OF RECORD.--June 1997 to current year. Unpublished records of gage height for water years 1988 to 1997 are available in the files of U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 203.72 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred June 16, 2002. Minimum discharge for current water year also occurred Sept. 12.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 27.69 ft, discharge, about 11,700 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e70	e27	e120	e30	107	445	117	62	19	15	208	13
2	e63	e27	e90	e29	87	270	143	49	53	16	116	12
3	e60	e28	e73	e29	131	163	224	38	42	14	77	12
4	e169	e43	e63	e29	227	114	174	33	33	13	53	11
5	e133	e62	e54	e30	168	89	122	29	29	13	45	11
6	e93	e46	e50	e28	123	73	87	131	27	14	34	12
7	e67	e38	e47	30	97	62	69	93	355	28	25	12
8	e52	e35	e44	29	79	387	267	66	535	243	22	12
9	e43	e32	e49	30	67	367	520	52	235	191	578	11
10	e37	e28	e284	30	64	220	314	42	125	117	579	11
11	e33	e27	e317	29	53	146	192	36	84	74	397	11
12	e29	e124	e219	29	44	122	128	35	60	51	266	12
13	e156	e409	e145	31	42	94	212	47	46	36	175	12
14	e260	e234	e99	616	43	94	172	34	36	35	275	13
15	e202	e146	e76	607	46	79	120	31	30	27	315	13
16	e138	e103	e64	397	46	177	88	33	26	22	138	12
17	e92	e76	e56	223	43	737	71	29	22	19	125	12
18	e68	e63	e51	136	39	559	62	25	18	17	84	11
19	e56	e55	e50	93	34	347	55	30	16	17	60	12
20	e49	e48	e47	75	34	213	49	52	16	229	45	33
21	e41	e44	e42	75	39	142	44	75	15	149	48	82
22	e38	e41	e39	66	39	107	40	52	14	119	40	44
23	e34	e135	e44	62	37	156	38	43	16	155	40	32
24	e33	e222	e55	52	176	187	35	35	14	89	34	25
25	e33	e184	e47	48	190	148	32	32	13	57	28	22
26	e30	e128	e45	47	136	114	28	28	14	40	23	19
27	e29	e97	e42	43	101	92	28	24	15	30	19	18
28	e28	e338	e39	39	526	205	27	21	22	31	17	16
29	e28	e245	e35	37	---	227	29	20	21	646	16	14
30	e27	e166	e36	136	---	178	30	18	19	468	15	13
31	e27	---	e33	127	---	137	---	19	---	276	15	---
TOTAL	2,218	3,251	2,455	3,262	2,818	6,451	3,517	1,314	1,970	3,251	3,912	543
MEAN	71.5	108	79.2	105	101	208	117	42.4	65.7	105	126	18.1
MAX	260	409	317	616	526	737	520	131	535	646	579	82
MIN	27	27	33	28	34	62	27	18	13	13	15	11
CFSM	0.73	1.11	0.81	1.08	1.03	2.13	1.20	0.43	0.67	1.07	1.29	0.19
IN.	0.85	1.24	0.94	1.24	1.07	2.46	1.34	0.50	0.75	1.24	1.49	0.21

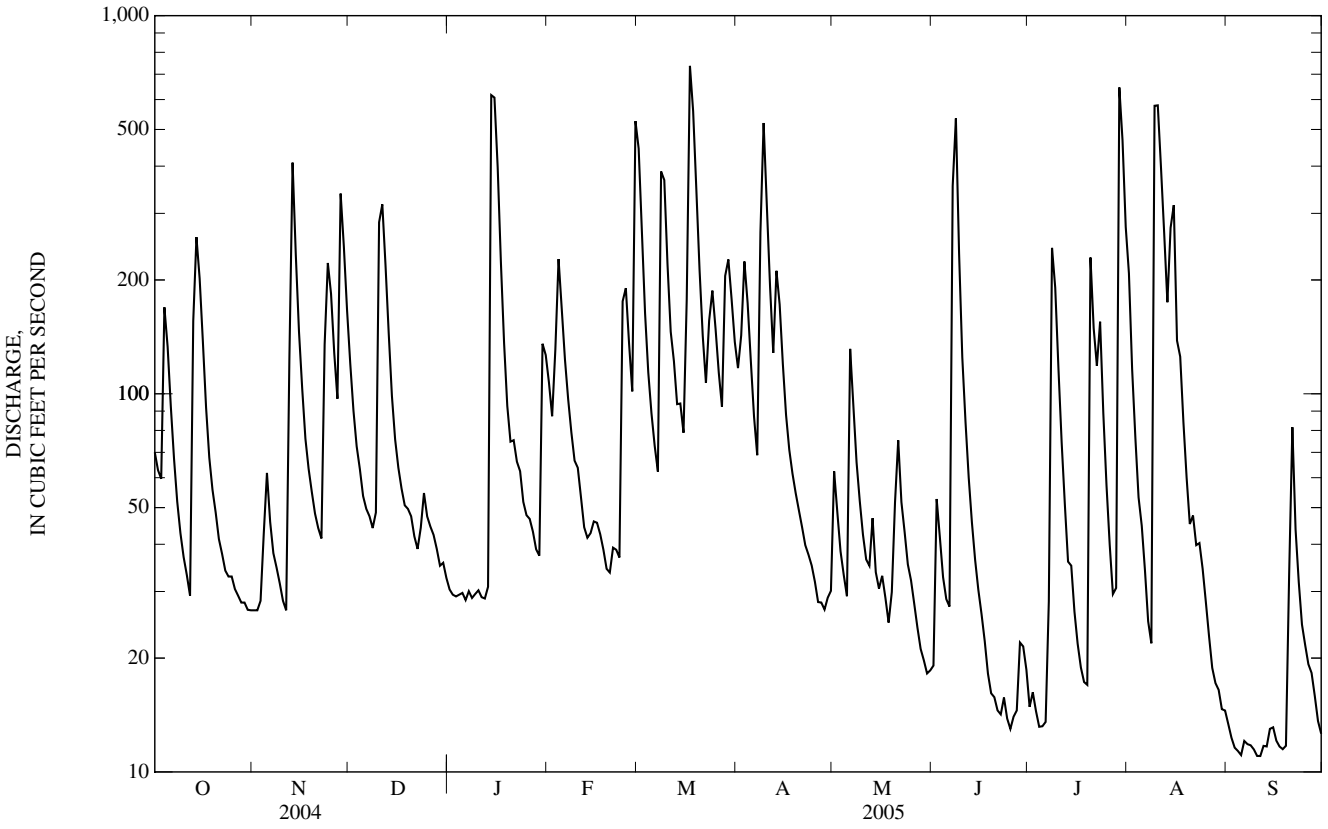
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	97.5	74.8	107	169	183	217	133	51.3	65.1	85.2	118	177
MAX	352	201	308	422	412	429	310	92.8	170	166	331	939
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2001)	(1997)	(2004)	(1999)
MIN	22.2	31.5	27.1	33.7	74.0	75.4	70.0	15.6	13.1	26.0	23.7	18.1
(WY)	(2001)	(2002)	(2002)	(2001)	(2002)	(2000)	(2004)	(2002)	(1999)	(1999)	(1997)	(2005)

02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	42,003		34,962			
ANNUAL MEAN	115		95.8		125	
HIGHEST ANNUAL MEAN					213	2003
LOWEST ANNUAL MEAN					68.8	2002
HIGHEST DAILY MEAN	1,790	Aug 14	737	Mar 17	5,030	Sep 16, 1999
LOWEST DAILY MEAN	10	Jun 22	11	Sep 4	4.9	Jun 13, 2002
ANNUAL SEVEN-DAY MINIMUM	16	May 23	11	Sep 4	5.6	Jun 12, 2002
MAXIMUM PEAK FLOW			1,920	Aug 9	7,080	Sep 16, 1999
MAXIMUM PEAK STAGE			12.07	Aug 9	21.50	Sep 16, 1999
INSTANTANEOUS LOW FLOW			7.3*	Sep 11	1.6*	Jun 14, 2002
ANNUAL RUNOFF (CFSM)	1.18		0.981		1.28	
ANNUAL RUNOFF (INCHES)	16.01		13.33		17.35	
10 PERCENT EXCEEDS	246		227		274	
50 PERCENT EXCEEDS	63		47		53	
90 PERCENT EXCEEDS	28		16		15	

* See REMARKS.
e Estimated.



0208731190 CRABTREE CREEK AT ANDERSON DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°49'16", long 78°38'03", Wake County, Hydrologic Unit 03020201, on the downstream side of Anderson Drive bridge and 2.3 mi north of Raleigh.

DRAINAGE AREA.--111 mi^2.

PERIOD OF RECORD.--May 1990 to May 1991, October 1991 to April 1993, June 1997 to current year.

GAGE.--Water-stage recorder. Datum of gage is 187.29 ft above NGVD of 1929. Satellite and telephone telemetry at station.

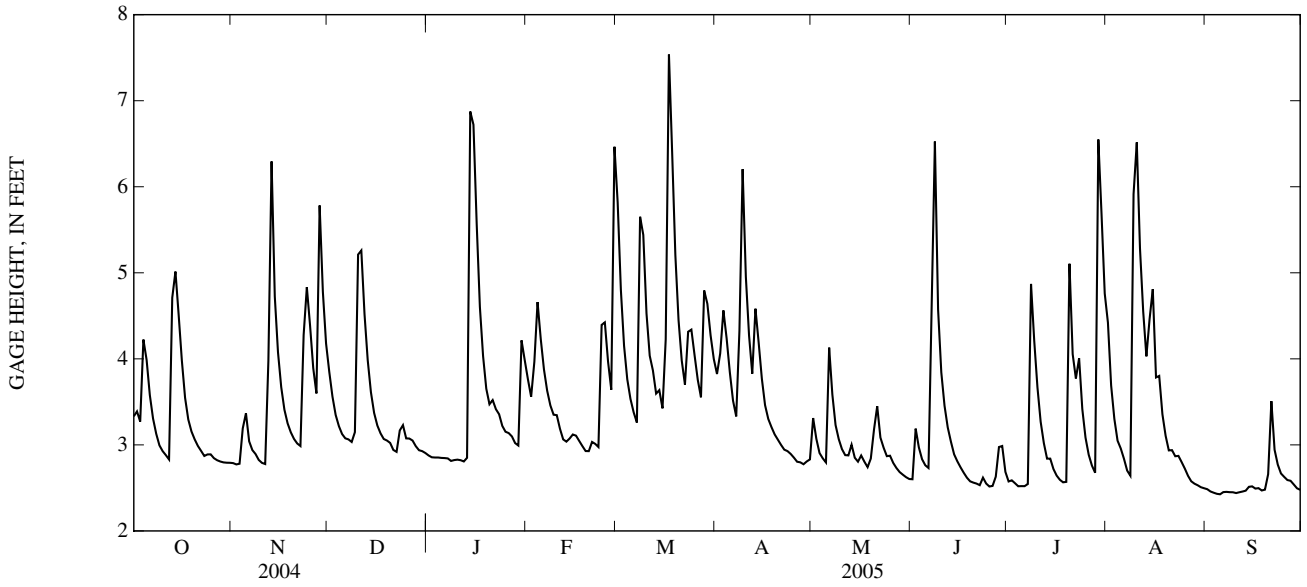
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 21.04 ft, Sep. 16, 1999; minimum gage height not determined.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1996 reached a stage of 23.1 ft from flood marks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 11.55 ft, Aug. 9; minimum gage height, 2.36 ft, Sept. 5.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.33	2.79	3.85	2.88	3.76	5.82	3.82	3.31	2.60	2.57	4.42	2.48
2	3.39	2.77	3.56	2.86	3.56	4.80	4.06	3.07	3.19	2.59	3.69	2.46
3	3.27	2.78	3.35	2.85	3.97	4.15	4.56	2.91	2.97	2.55	3.30	2.44
4	4.22	3.19	3.22	2.85	4.66	3.76	4.24	2.84	2.83	2.52	3.05	2.43
5	3.99	3.37	3.13	2.85	4.23	3.53	3.84	2.80	2.76	2.52	2.96	2.43
6	3.58	3.04	3.08	2.85	3.88	3.38	3.51	4.13	2.73	2.52	2.84	2.45
7	3.31	2.94	3.06	2.84	3.63	3.26	3.33	3.59	4.61	2.55	2.70	2.45
8	3.13	2.89	3.03	2.81	3.46	5.65	4.32	3.23	6.53	4.87	2.64	2.45
9	2.99	2.82	3.15	2.82	3.35	5.44	6.20	3.07	4.57	4.21	5.91	2.45
10	2.93	2.79	5.21	2.83	3.35	4.53	4.95	2.95	3.84	3.67	6.52	2.44
11	2.88	2.78	5.26	2.82	3.19	4.04	4.27	2.88	3.46	3.27	5.28	2.45
12	2.83	3.98	4.52	2.81	3.06	3.86	3.83	2.88	3.20	3.02	4.55	2.46
13	4.71	6.29	3.98	2.85	3.04	3.60	4.58	3.00	3.04	2.84	4.03	2.47
14	5.01	4.73	3.61	6.87	3.07	3.64	4.19	2.85	2.89	2.84	4.46	2.51
15	4.51	4.08	3.37	6.72	3.12	3.42	3.77	2.80	2.81	2.72	4.81	2.52
16	3.98	3.67	3.22	5.57	3.11	4.23	3.46	2.88	2.74	2.64	3.78	2.49
17	3.55	3.41	3.13	4.60	3.05	7.54	3.30	2.80	2.68	2.59	3.80	2.50
18	3.30	3.25	3.07	4.03	2.99	6.40	3.21	2.74	2.62	2.56	3.36	2.47
19	3.16	3.15	3.05	3.65	2.93	5.21	3.12	2.84	2.58	2.57	3.11	2.48
20	3.06	3.07	3.02	3.47	2.93	4.45	3.06	3.18	2.56	5.11	2.94	2.66
21	2.99	3.02	2.94	3.52	3.03	3.98	3.00	3.45	2.55	4.05	2.94	3.51
22	2.93	2.99	2.92	3.42	3.01	3.70	2.94	3.09	2.53	3.77	2.87	2.94
23	2.87	4.28	3.17	3.36	2.98	4.32	2.93	2.97	2.62	4.01	2.87	2.77
24	2.89	4.83	3.23	3.22	4.39	4.34	2.89	2.87	2.55	3.42	2.80	2.67
25	2.89	4.39	3.08	3.15	4.42	4.04	2.85	2.87	2.52	3.08	2.72	2.63
26	2.85	3.89	3.07	3.14	3.97	3.76	2.80	2.79	2.52	2.89	2.64	2.59
27	2.82	3.60	3.05	3.10	3.64	3.55	2.80	2.73	2.63	2.76	2.58	2.58
28	2.81	5.78	2.99	3.02	6.47	4.79	2.78	2.68	2.98	2.68	2.55	2.54
29	2.80	4.78	2.94	2.99	---	4.64	2.81	2.65	2.99	6.55	2.53	2.50
30	2.79	4.18	2.93	4.21	---	4.27	2.83	2.62	2.69	5.68	2.51	2.48
31	2.79	---	2.91	3.98	---	4.00	---	2.60	---	4.76	2.50	---
MEAN	3.31	3.65	3.36	3.51	3.58	4.39	3.61	2.97	3.06	3.37	3.47	2.56
MAX	5.01	6.29	5.26	6.87	6.47	7.54	6.20	4.13	6.53	6.55	6.52	3.51
MIN	2.79	2.77	2.91	2.81	2.93	3.26	2.78	2.60	2.52	2.52	2.50	2.43



02087322 CRABTREE CREEK AT OLD WAKE FOREST ROAD AT RALEIGH, NC

LOCATION.--Lat 35°48'57", long 78°37'34", Wake County, Hydrologic Unit 030200201, on right bank on upstream side of bridge at Old Wake Forest Road, 2.8 mi northeast of Raleigh.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--February 1988 to September 1989, discharge records, October 1989 to October 1991, discharge measurements and unpublished, fragmentary gage-height and discharge records, June 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 186.51 ft above NGVD of 1929. Satellite and telephone telemetry at station.

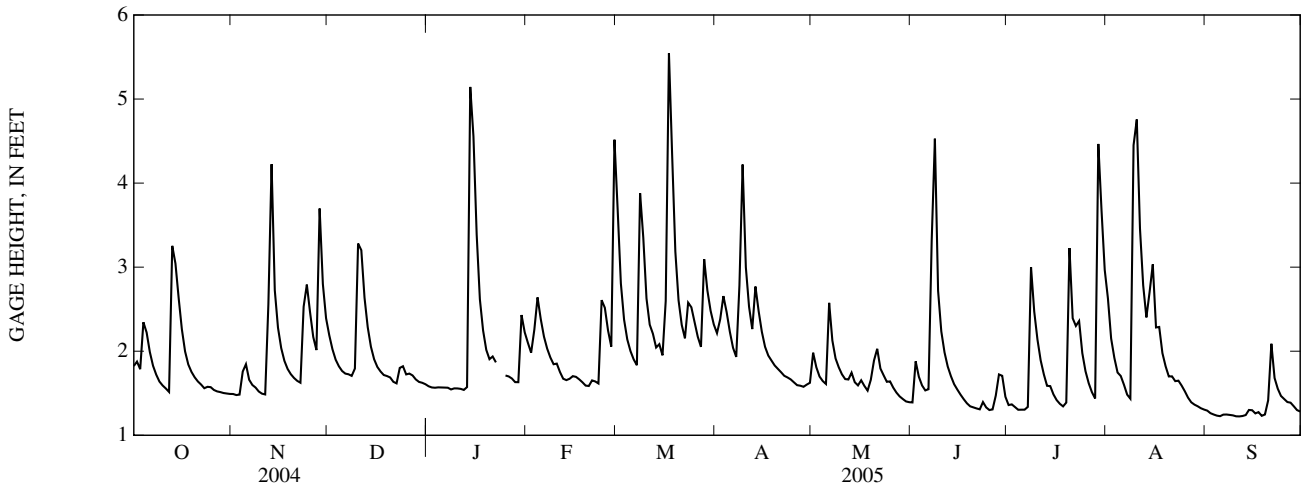
EXTREMES FOR PERIOD OF RECORD.-- Maximum gage height, 19.93 ft, Sept. 16, 1999; minimum gage height, 1.16 ft, Sep. 11, 12, 2004.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 1996 reached a stage of 21.6 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 9.98 ft, Aug. 9; minimum gage height, 1.16 ft, Sept. 11, 12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.82	1.49	2.19	1.58	2.10	3.68	2.21	1.98	1.39	1.36	2.63	1.29
2	1.88	1.48	2.02	1.57	1.98	2.81	2.38	1.81	1.88	1.37	2.15	1.26
3	1.79	1.48	1.90	1.57	2.26	2.38	2.66	1.70	1.70	1.34	1.92	1.25
4	2.34	1.76	1.82	1.57	2.64	2.14	2.47	1.65	1.59	1.30	1.75	1.23
5	2.22	1.85	1.76	1.57	2.38	2.00	2.23	1.61	1.53	1.30	1.71	1.23
6	1.99	1.66	1.73	1.57	2.17	1.90	2.04	2.58	1.55	1.30	1.60	1.25
7	1.83	1.60	1.73	1.57	2.03	1.83	1.93	2.13	3.32	1.34	1.48	1.25
8	1.72	1.57	1.71	1.54	1.93	3.88	2.78	1.91	4.53	3.00	1.44	1.24
9	1.64	1.52	1.79	1.56	1.85	3.35	4.22	1.81	2.72	2.47	4.45	1.24
10	1.59	1.49	3.28	1.56	1.85	2.63	3.00	1.73	2.24	2.14	4.76	1.23
11	1.56	1.49	3.20	1.55	1.75	2.32	2.53	1.67	1.99	1.89	3.46	1.22
12	1.52	2.56	2.64	1.54	1.67	2.21	2.26	1.66	1.82	1.72	2.78	1.23
13	3.25	4.22	2.29	1.57	1.66	2.04	2.77	1.74	1.70	1.59	2.40	1.24
14	3.04	2.73	2.05	5.14	1.67	2.08	2.48	1.63	1.61	1.58	2.70	1.30
15	2.63	2.28	1.90	4.55	1.70	1.95	2.23	1.59	1.54	1.49	3.03	1.30
16	2.26	2.04	1.81	3.39	1.69	2.60	2.05	1.65	1.48	1.42	2.28	1.26
17	2.00	1.89	1.76	2.62	1.67	5.54	1.95	1.59	1.43	1.37	2.29	1.28
18	1.84	1.79	1.72	2.25	1.63	4.33	1.89	1.53	1.38	1.34	1.98	1.23
19	1.75	1.73	1.70	2.02	1.59	3.19	1.83	1.66	1.34	1.39	1.82	1.25
20	1.69	1.68	1.69	1.91	1.59	2.61	1.79	1.89	1.33	3.23	1.70	1.42
21	1.64	1.65	1.64	1.94	1.65	2.31	1.75	2.03	1.32	2.39	1.70	2.09
22	1.60	1.63	1.62	1.87	1.64	2.15	1.71	1.79	1.31	2.30	1.64	1.68
23	1.56	2.53	1.80	---	1.62	2.58	1.69	1.71	1.40	2.36	1.65	1.55
24	1.58	2.79	1.82	---	2.61	2.52	1.66	1.64	1.33	1.98	1.59	1.47
25	1.57	2.47	1.72	1.71	2.52	2.35	1.63	1.64	1.30	1.76	1.52	1.43
26	1.54	2.17	1.73	1.70	2.25	2.17	1.60	1.57	1.31	1.62	1.45	1.40
27	1.52	2.01	1.71	1.67	2.06	2.05	1.59	1.51	1.47	1.51	1.39	1.39
28	1.51	3.70	1.66	1.63	4.52	3.09	1.58	1.46	1.72	1.44	1.36	1.34
29	1.50	2.80	1.63	1.63	---	2.72	1.60	1.43	1.71	4.47	1.35	1.30
30	1.50	2.39	1.62	2.43	---	2.48	1.62	1.40	1.46	3.67	1.32	1.28
31	1.49	---	1.61	2.22	---	2.32	---	1.39	---	2.97	1.31	---
MEAN	1.85	2.08	1.91	---	2.02	2.65	2.14	1.71	1.75	1.95	2.08	1.34
MAX	3.25	4.22	3.28	---	4.52	5.54	4.22	2.58	4.53	4.47	4.76	2.09
MIN	1.49	1.48	1.61	---	1.59	1.83	1.58	1.39	1.30	1.30	1.31	1.22



02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC

LOCATION.--Lat 35°48'40", long 78°36'39", Wake County, Hydrologic Unit 03020201, on downstream side of bridge on U.S. Highway 1, 2.7 mi northeast of Raleigh, and 7.2 mi upstream from mouth.

DRAINAGE AREA.--121 mi^2.

PERIOD OF RECORD.--July 1990 to current year.

GAGE.--Water-stage recorder. Datum of gage is 182.27 ft above NGVD of 1929. Prior to Aug. 8, 1999, at site 40 ft upstream at datum 183.27 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good. Maximum gage height for period of record from high-water mark in gage well. Minimum discharge for period of record also occurred Oct. 8, 9, 1994. Minimum discharge for current water year also occurred Sept. 12, 19.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 29, 1973, reached a stage of about 17.98 ft, discharge, about 13,500 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	37	147	49	137	481	147	97	25	22	240	19
2	96	36	112	47	113	292	186	65	89	23	137	17
3	76	36	87	47	179	192	248	50	56	20	95	16
4	177	73	73	47	261	139	204	44	44	18	65	15
5	156	87	64	47	198	112	151	41	38	18	58	14
6	109	58	60	47	150	94	111	233	39	18	45	15
7	80	49	58	47	121	83	90	124	406	23	33	15
8	64	45	55	44	101	517	264	81	658	329	28	15
9	52	41	70	46	86	408	593	66	263	204	611	15
10	48	38	375	46	88	249	324	54	156	132	661	14
11	43	37	371	45	73	175	214	48	105	85	407	14
12	40	239	249	44	62	151	152	47	76	58	270	14
13	418	587	171	48	59	116	278	59	60	42	188	15
14	338	271	123	769	61	127	201	45	48	41	250	19
15	245	172	94	649	64	100	143	40	41	32	326	19
16	162	121	78	415	64	239	108	48	35	27	158	16
17	108	91	71	248	61	853	90	40	30	23	168	18
18	81	76	66	166	57	601	79	35	26	20	105	14
19	70	67	64	119	53	365	69	53	22	27	77	14
20	60	61	62	98	51	237	64	89	21	382	59	35
21	54	56	56	104	59	171	59	108	20	188	60	142
22	50	53	53	93	58	138	53	65	19	172	54	60
23	45	235	85	86	55	240	51	55	25	187	54	43
24	47	291	82	75	264	218	48	45	21	101	46	34
25	46	216	67	69	230	178	44	46	18	65	39	30
26	42	150	70	67	166	140	40	39	18	46	32	26
27	40	118	67	64	126	116	39	34	41	34	27	25
28	39	474	60	58	648	353	39	30	88	27	25	22
29	39	285	56	58	---	267	41	28	66	618	23	18
30	38	190	54	224	---	209	42	26	31	463	21	17
31	37	---	52	165	---	171	---	25	---	313	20	---
TOTAL	2,981	4,290	3,152	4,131	3,645	7,732	4,172	1,860	2,585	3,758	4,382	750
MEAN	96.2	143	102	133	130	249	139	60.0	86.2	121	141	25.0
MAX	418	587	375	769	648	853	593	233	658	618	661	142
MIN	37	36	52	44	51	83	39	25	18	18	20	14
CFSM	0.79	1.18	0.84	1.10	1.08	2.06	1.15	0.50	0.71	1.00	1.17	0.21
IN.	0.92	1.32	0.97	1.27	1.12	2.38	1.28	0.57	0.79	1.16	1.35	0.23

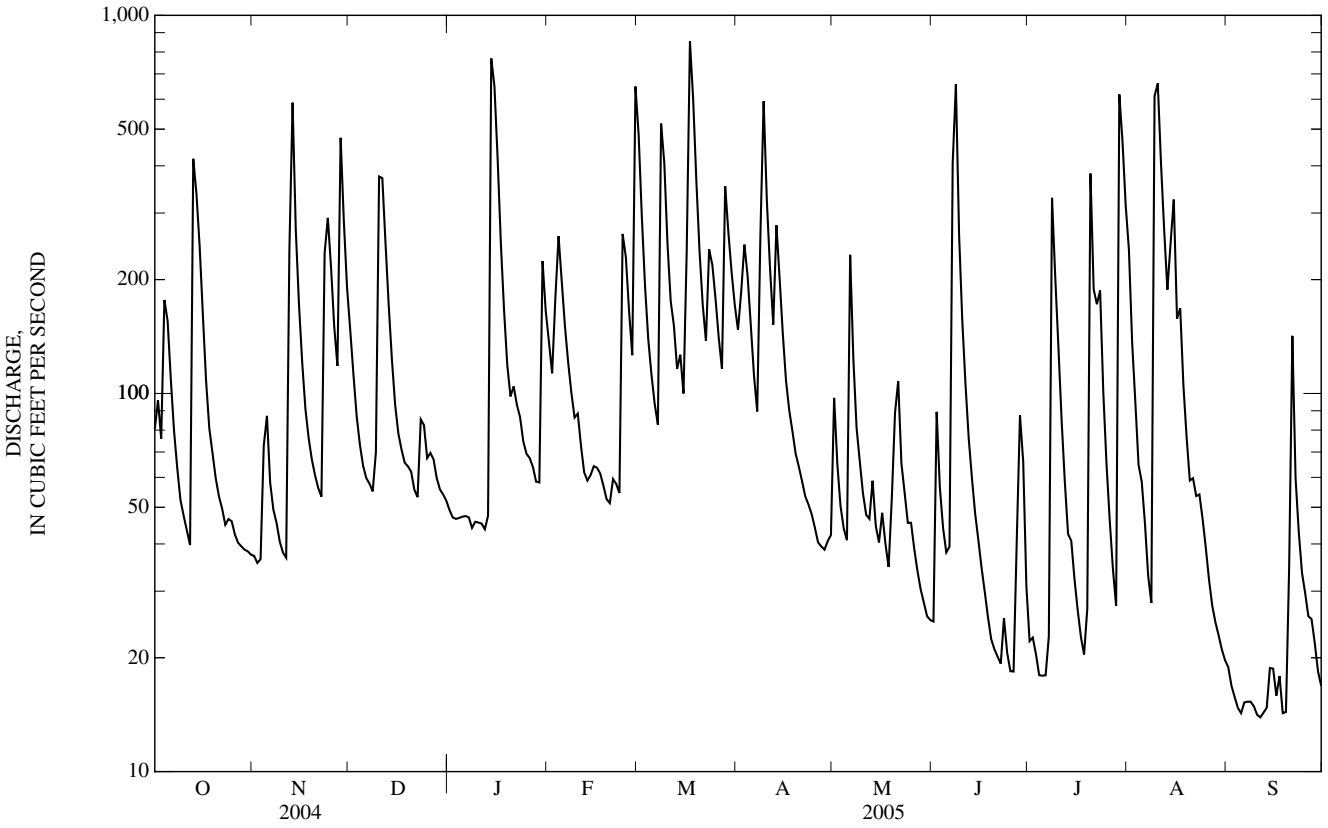
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

MEAN	133	105	118	218	199	240	153	76.6	108	97.7	117	203
MAX	427	255	335	495	483	494	382	128	257	198	400	1,162
(WY)	(2003)	(1993)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(1990)	(1997)	(2004)	(1999)
MIN	30.8	23.2	44.2	45.0	59.5	103	57.4	21.3	21.3	30.7	31.7	14.2
(WY)	(1992)	(1992)	(2002)	(2001)	(1991)	(2000)	(1995)	(2002)	(1999)	(1993)	(1993)	(1990)

02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005	
ANNUAL TOTAL	52,669		43,438			
ANNUAL MEAN	144		119		148	
HIGHEST ANNUAL MEAN					261	2003
LOWEST ANNUAL MEAN					96.7	2002
HIGHEST DAILY MEAN	2,110	Aug 14	853	Mar 17	7,730	Sep 6, 1996
LOWEST DAILY MEAN	21	Jun 22	14	Sep 5	1.9	Oct 8, 1994
ANNUAL SEVEN-DAY MINIMUM	28	May 23	15	Sep 5	2.3	Oct 2, 1994
MAXIMUM PEAK FLOW			1,830	Jun 7	12,700	Sep 6, 1996
MAXIMUM PEAK STAGE			9.18	Jun 7	18.23*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			11*	Sep 11	1.9*	Oct 7, 1994
ANNUAL RUNOFF (CFSM)	1.19		0.984		1.22	
ANNUAL RUNOFF (INCHES)	16.19		13.35		16.61	
10 PERCENT EXCEEDS	295		268		321	
50 PERCENT EXCEEDS	80		64		71	
90 PERCENT EXCEEDS	39		22		21	

* See REMARKS.



0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC

LOCATION.--Lat 35°47'15", long 78°39'17", Wake County, Hydrologic Unit 03020201, on right bank, downstream of Cameron Village in Wells Park, on the upstream side of Forest Drive.

DRAINAGE AREA.--0.27 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, July 1987 to September 1996, are available in the U.S.G.S. District Office, Raleigh, NC.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 320 ft above NGVD of 1929 from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurred many days June to Oct. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.06	0.06	0.15	0.04	0.04	0.07	0.07	0.75	0.17	0.05	0.09	0.02
2	e0.06	0.07	0.05	0.04	0.07	0.05	0.69	0.05	1.1	0.06	0.05	0.02
3	e0.07	0.14	0.05	0.08	1.3	0.04	0.07	0.05	0.05	0.06	0.08	0.01
4	e0.06	1.1	0.05	0.04	0.05	0.04	0.06	0.05	0.04	0.05	0.05	0.02
5	e0.06	0.08	0.05	0.04	0.04	0.04	0.06	0.30	0.04	0.46	0.05	0.01
6	0.08	0.06	0.11	0.04	0.04	0.04	0.06	2.4	0.04	0.07	0.05	0.03
7	0.09	0.06	0.06	0.04	0.04	0.04	0.06	0.05	3.3	1.8	0.05	0.02
8	0.09	0.06	0.04	0.04	0.04	4.5	1.9	0.05	0.12	0.28	0.04	0.02
9	0.10	0.06	0.48	0.04	0.04	0.07	0.40	0.05	0.06	0.04	3.8	0.02
10	0.10	0.06	1.2	0.03	0.05	0.05	0.06	0.05	0.06	0.04	0.04	0.02
11	0.10	0.06	0.04	0.04	0.04	0.09	0.06	0.05	0.05	0.08	0.03	0.02
12	0.10	4.6	0.04	0.04	0.04	0.05	0.54	0.25	0.05	0.04	0.02	0.02
13	9.1	0.24	0.04	0.15	0.04	0.46	1.8	0.05	0.06	0.04	0.02	0.02
14	0.25	0.07	0.04	4.8	0.11	0.26	0.08	0.05	0.06	0.04	0.02	0.11
15	0.51	0.07	0.04	0.05	0.05	0.04	0.06	0.10	0.05	0.04	0.02	0.02
16	0.08	0.07	0.04	0.04	0.12	2.7	0.06	0.25	0.05	0.04	0.03	0.02
17	0.07	0.09	0.04	0.04	0.04	2.1	0.06	0.05	0.05	0.04	0.42	0.02
18	0.07	0.09	0.04	0.04	0.04	0.10	0.06	0.04	0.04	0.27	0.02	0.02
19	0.37	0.07	0.06	0.04	0.04	0.06	0.06	0.76	0.05	0.04	0.02	0.07
20	0.08	0.07	0.04	0.05	0.14	0.08	0.06	0.93	0.05	0.37	0.02	1.7
21	0.08	0.06	0.04	0.15	0.12	0.05	0.05	0.07	0.09	0.04	0.02	0.08
22	0.07	0.06	0.04	0.22	0.04	0.49	0.05	0.04	0.04	1.7	0.02	0.02
23	0.07	2.8	0.88	0.04	0.06	1.3	0.09	0.04	0.05	0.12	0.15	0.02
24	0.22	0.10	0.04	0.04	2.8	0.05	0.05	0.04	0.04	0.05	0.02	0.02
25	0.07	0.11	0.04	0.04	0.05	0.05	0.05	0.04	0.04	0.05	0.02	0.02
26	0.07	0.06	0.20	0.04	0.05	0.05	0.06	0.04	0.06	0.05	0.02	0.03
27	0.07	1.3	0.15	0.03	0.13	0.05	0.06	0.03	0.60	0.04	0.02	0.04
28	0.07	1.3	0.06	0.03	3.1	3.3	0.05	0.24	1.6	0.13	0.02	0.02
29	0.07	0.06	0.06	0.07	---	0.11	0.10	0.06	0.24	0.90	0.02	0.02
30	0.07	0.05	0.05	2.0	---	0.06	0.09	0.03	0.05	0.16	0.03	0.01
31	0.12	---	0.04	0.04	---	0.23	---	0.03	---	1.2	0.02	---
TOTAL	12.48	13.08	4.26	8.42	8.72	16.62	6.92	6.99	8.30	8.35	5.28	2.49
MEAN	0.40	0.44	0.14	0.27	0.31	0.54	0.23	0.23	0.28	0.27	0.17	0.08
MAX	9.1	4.6	1.2	4.8	3.1	4.5	1.9	2.4	3.3	1.8	3.8	1.7
MIN	0.06	0.05	0.04	0.03	0.04	0.04	0.05	0.03	0.04	0.04	0.02	0.01
CFSM	1.49	1.61	0.51	1.01	1.15	1.99	0.85	0.84	1.02	1.00	0.63	0.31
IN.	1.72	1.80	0.59	1.16	1.20	2.29	0.95	0.96	1.14	1.15	0.73	0.34

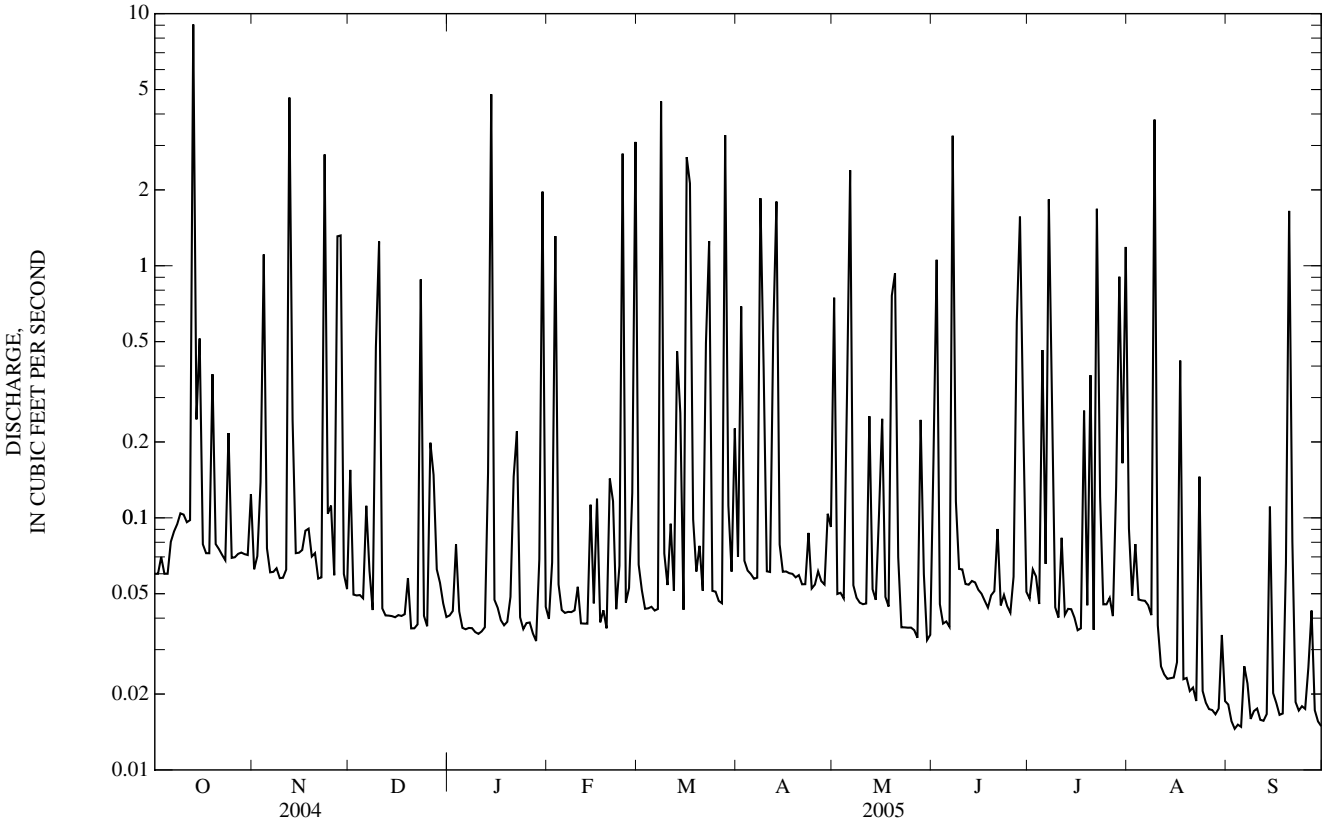
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	0.34	0.30	0.34	0.51	0.43	0.56	0.33	0.26	0.38	0.50	0.50	0.56
MAX	0.81	0.46	0.74	1.32	1.02	1.31	0.63	0.60	0.74	0.91	0.85	2.78
(WY)	(2003)	(1998)	(2003)	(1998)	(1998)	(1998)	(1997)	(1997)	(2001)	(2003)	(2003)	(1999)
MIN	0.03	0.04	0.12	0.05	0.11	0.17	0.05	0.05	0.18	0.21	0.17	0.08
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2004)	(2002)	(2002)	(1999)	(1999)	(2001)	(2002)

0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	99.77		101.91			
ANNUAL MEAN	0.27		0.28		0.42	
HIGHEST ANNUAL MEAN					0.69	1998
LOWEST ANNUAL MEAN					0.20	2002
HIGHEST DAILY MEAN	9.1	Oct 13	9.1	Oct 13	17	Jul 29, 2003
LOWEST DAILY MEAN	0.02	Jan 21	0.01	Sep 3	0.00	Jun 24, 2002
ANNUAL SEVEN-DAY MINIMUM	0.03	Jan 19	0.02	Aug 30	0.00	Aug 5, 2002
MAXIMUM PEAK FLOW			274	Oct 13	622	Aug 21, 1999
MAXIMUM PEAK STAGE			5.54	Oct 13	8.23	Aug 21, 1999
INSTANTANEOUS LOW FLOW			0.01*	Aug 22	0.00*	Jun 24, 2002
ANNUAL RUNOFF (CFSM)	1.01		1.03		1.54	
ANNUAL RUNOFF (INCHES)	13.75		14.04		20.99	
10 PERCENT EXCEEDS	0.60		0.52		0.93	
50 PERCENT EXCEEDS	0.08		0.05		0.10	
90 PERCENT EXCEEDS	0.04		0.02		0.02	

* See REMARKS.
e Estimated.



0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC—Continued

PRECIPITATION RECORDS

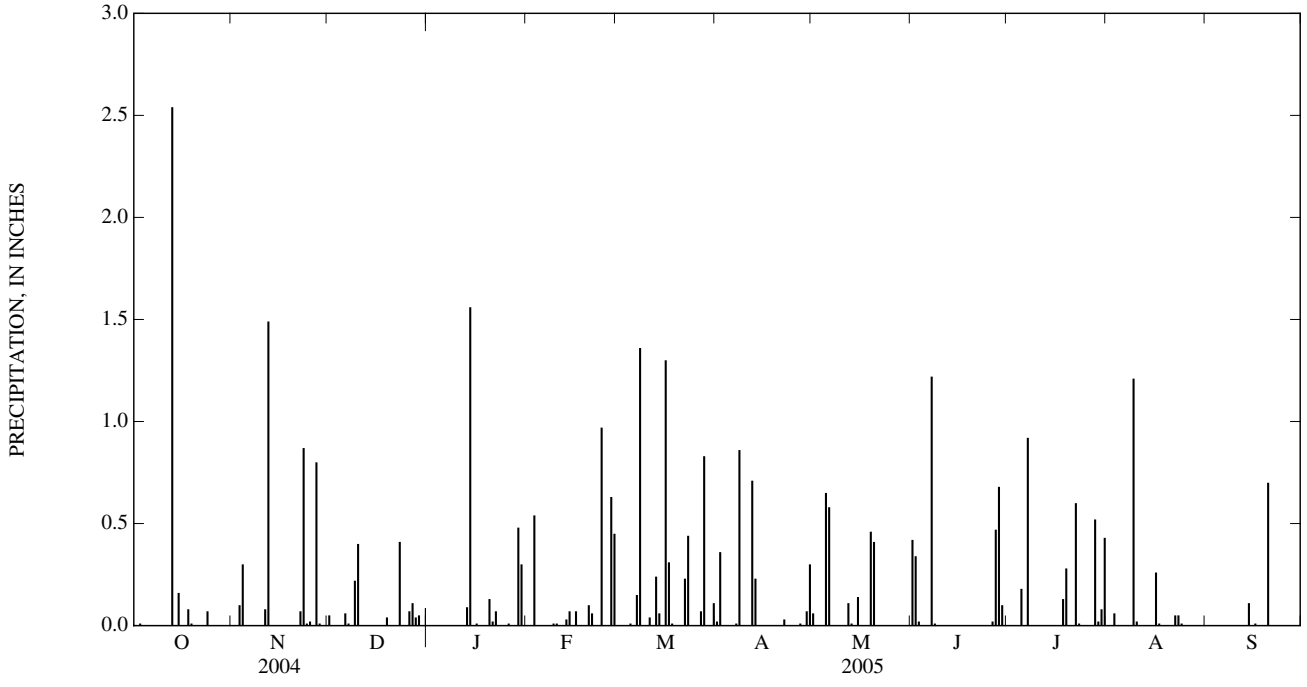
PERIOD OF RECORD.--July 1987 to current year. Records from July 1987 to January 2000 are unpublished and available in the USGS Water Science Center in Raleigh, NC.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.00	0.02	0.06	0.42	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.34	0.00	0.00	0.00
3	0.01	0.10	0.00	0.00	0.54	0.00	0.00	0.00	0.02	0.00	0.06	0.00
4	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.65	0.00	0.18	0.00	0.00
6	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.15	0.01	0.00	1.22	0.92	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	1.36	0.86	0.00	0.01	0.00	0.00	0.00
9	0.00	0.00	0.22	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.21	0.00
10	0.00	0.00	0.40	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00
11	0.00	0.08	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.49	0.00	0.00	0.00	0.00	0.71	0.11	0.00	0.00	0.00	0.00
13	2.54	0.00	0.00	0.09	0.03	0.24	0.23	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	1.56	0.07	0.06	0.00	0.00	0.00	0.00	0.00	0.11
15	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.07	1.30	0.00	0.00	0.00	0.00	0.26	0.01
17	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.01	0.00
18	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.13	0.00	0.00
19	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.46	0.00	0.28	0.00	0.00
20	0.00	0.00	0.00	0.13	0.10	0.00	0.00	0.41	0.00	0.00	0.00	0.70
21	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00	0.00	0.00	0.00	---
22	0.00	0.07	0.00	0.07	0.00	0.23	0.03	0.00	0.00	0.60	0.05	---
23	0.00	0.87	0.41	0.00	0.00	0.44	0.00	0.00	0.00	0.01	0.05	---
24	0.07	0.01	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.01	---
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
26	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	---
27	0.00	0.80	0.11	0.00	0.63	0.07	0.01	0.00	0.47	0.00	0.00	---
28	0.00	0.01	0.04	0.00	0.45	0.83	0.00	0.00	0.68	0.52	0.00	---
29	0.00	0.00	0.05	0.48	---	0.00	0.07	0.00	0.10	0.02	0.00	---
30	0.00	0.00	0.00	0.30	---	0.00	0.30	0.00	0.00	0.08	0.00	---
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	0.43	0.00	---
TOTAL	2.87	3.75	1.46	2.67	2.94	5.16	2.60	2.42	3.28	3.17	1.67	---



0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°49'01", long 78°35'35", Wake County, Hydrologic Unit 03020201, at right upstream wingwall, on bridge at Stoneybrook Road, 0.2 mi downstream of U.S. Highway 401, and 2.9 mi southwest of New Hope.

DRAINAGE AREA.--6.84 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1984 to current year.

REVISED RECORDS.--WDR NC-95-1: 1995(M).

GAGE.--Water-stage recorder. Datum of gage is 196.63 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extension above 1,300 ft^3/s, on basis of indirect measurement of peak flow. No flow also occurred Aug. 5, 1999. Minimum discharge for current water year also occurred Sept. 29, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.8	1.4	4.5	1.8	3.8	9.2	5.0	13	1.2	2.0	4.1	0.04
2	e1.7	1.5	2.3	1.7	3.0	4.6	15	4.8	15	1.5	1.8	e0.02
3	e1.7	1.7	2.1	2.1	21	3.4	6.4	2.8	4.3	1.2	1.3	e0.02
4	e5.4	8.4	2.0	1.8	8.0	2.9	3.7	2.4	2.7	0.89	1.1	e0.01
5	e2.0	4.2	1.9	1.7	4.2	2.6	4.8	3.2	1.8	1.6	5.4	e0.01
6	1.1	1.8	2.0	1.6	3.3	2.4	3.5	62	15	0.91	1.5	e0.02
7	1.1	1.5	2.3	1.5	3.0	2.4	3.2	7.8	154	6.3	0.90	e0.02
8	1.2	1.4	2.2	1.5	2.7	85	25	3.7	26	39	0.60	e0.01
9	1.0	1.3	7.9	1.4	2.5	9.2	21	2.7	4.9	3.2	52	e0.01
10	1.1	1.6	25	1.3	4.6	4.6	5.1	2.2	4.4	1.6	17	e0.01
11	1.1	1.6	5.1	1.4	2.7	4.2	3.9	1.9	3.7	1.2	7.2	e0.01
12	1.1	68	3.1	1.4	2.5	3.8	4.7	2.0	2.7	0.92	2.5	e0.02
13	103	28	2.4	1.8	2.2	3.1	29	1.9	2.1	0.77	1.6	e0.04
14	19	4.0	2.0	e150	3.1	6.5	7.1	1.8	1.8	0.79	1.8	e0.50
15	7.8	2.7	1.8	e110	2.9	2.9	4.2	1.9	1.5	0.94	0.78	0.85
16	3.1	2.2	1.8	e54	2.5	43	3.3	4.8	1.2	0.51	0.80	0.25
17	1.8	1.8	1.8	e20	2.2	63	3.0	2.4	1.2	0.48	15	0.67
18	1.5	2.1	1.8	e3.8	2.1	9.6	2.9	2.7	1.1	0.37	2.8	0.35
19	2.6	2.3	2.1	2.6	2.1	5.0	2.9	15	1.3	14	1.7	0.59
20	1.6	2.2	2.0	2.8	2.6	3.8	2.7	24	1.2	63	0.93	5.2
21	1.7	2.7	2.0	6.3	3.4	2.9	2.5	9.5	0.97	3.9	0.59	7.8
22	1.3	2.9	2.2	4.7	3.4	5.7	2.6	5.0	2.5	14	0.33	1.3
23	1.2	46	15	3.5	2.2	35	2.7	3.0	2.9	8.7	1.4	0.78
24	2.0	13	5.3	2.4	45	7.0	2.2	3.0	1.2	2.2	0.45	0.38
25	1.5	4.7	2.9	2.5	7.4	3.8	2.1	3.0	0.95	1.5	0.31	0.12
26	1.2	3.1	4.7	2.4	4.2	3.2	2.0	2.2	1.2	0.96	0.24	0.02
27	1.2	7.3	4.4	2.0	3.3	2.8	2.1	1.7	3.8	0.55	0.17	0.22
28	1.5	46	3.0	1.9	67	71	1.9	1.3	19	0.39	0.29	0.00
29	1.4	5.2	2.6	2.3	---	11	2.6	1.2	11	12	0.12	0.00
30	1.6	4.6	2.6	38	---	5.4	2.4	1.0	3.2	5.5	0.08	0.00
31	1.5	---	2.1	6.0	---	5.9	---	1.0	---	10	0.06	---
MEAN	5.70	9.17	3.96	14.1	7.75	13.7	5.98	6.29	9.79	6.48	4.03	0.64
MAX	103	68	25	150	67	85	29	62	154	63	52	7.8
MIN	1.0	1.3	1.8	1.3	2.1	2.4	1.9	1.0	0.95	0.37	0.06	0.00
IN.	0.96	1.50	0.67	2.37	1.18	2.31	0.98	1.06	1.60	1.09	0.68	0.10

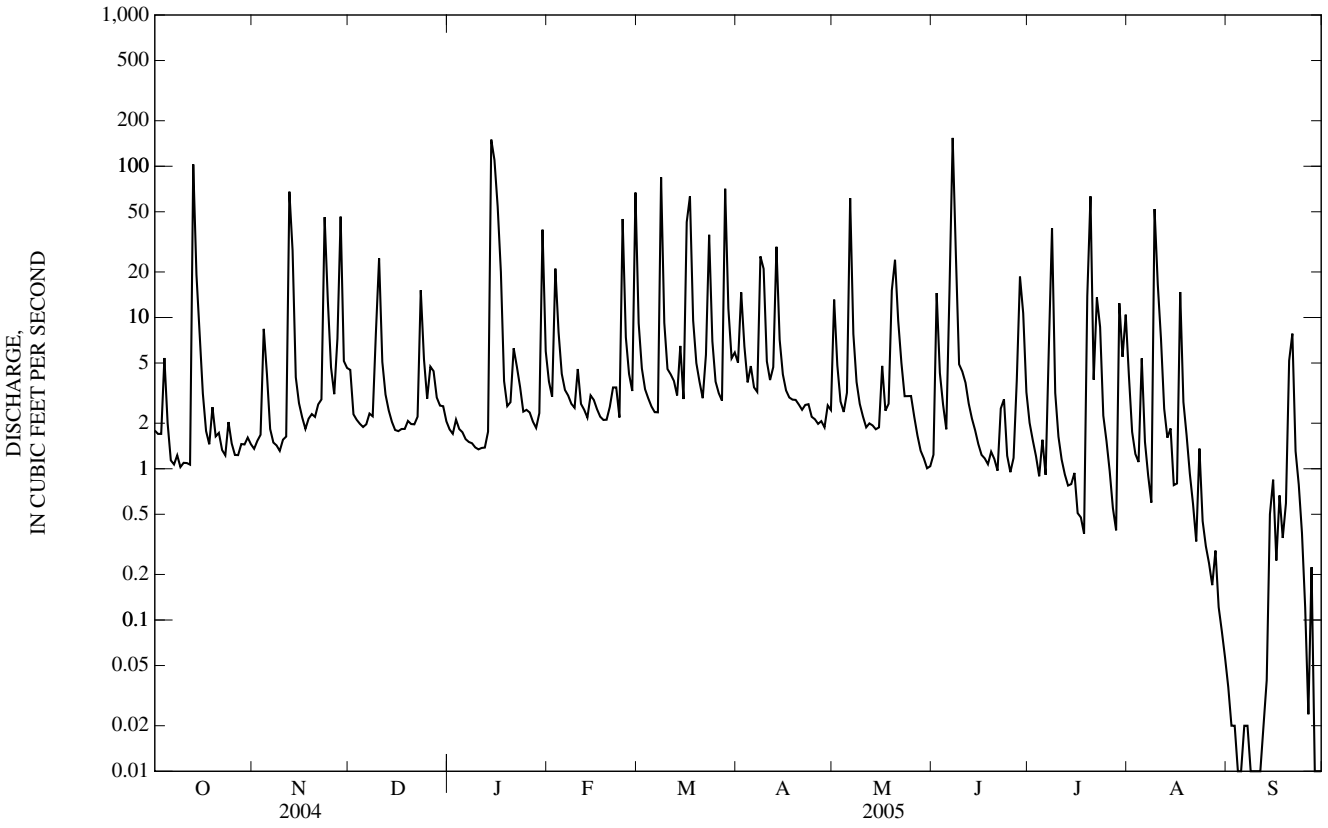
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	7.87	7.65	7.16	12.0	11.3	13.6	9.62	7.97	8.48	8.95	10.8	11.0
MAX	28.2	15.7	16.2	30.3	22.0	31.9	21.5	25.9	20.3	25.0	38.0	67.4
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(1984)	(1989)	(1997)	(1986)	(1999)
MIN	1.39	1.72	2.02	3.62	2.77	3.71	2.08	2.05	1.29	2.44	2.07	0.64
(WY)	(2001)	(1992)	(1995)	(2001)	(1991)	(1985)	(1986)	(2002)	(1993)	(1987)	(1993)	(2005)

0208732885 MARSH CREEK NEAR NEW HOPE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL MEAN	8.49		7.30		9.60	
HIGHEST ANNUAL MEAN					16.3	2003
LOWEST ANNUAL MEAN					5.18	1985
HIGHEST DAILY MEAN	177	Aug 30	154	Jun 7	890	Sep 6, 1996
LOWEST DAILY MEAN	1.0	Oct 9	0.00	Sep 28	0.00	Aug 3, 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 6	0.01	Sep 4	0.01	Sep 4, 2005
MAXIMUM PEAK FLOW			951	Jun 7	3,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.33	Jun 7	13.33	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 28	0.00*	Aug 3, 1999
ANNUAL RUNOFF (INCHES)	16.90		14.50		19.06	
10 PERCENT EXCEEDS	18		15		19	
50 PERCENT EXCEEDS	3.6		2.4		3.3	
90 PERCENT EXCEEDS	1.5		0.53		1.2	

* See REMARKS.
e Estimated.



0208732885 MARSH CREEK NEAR NEW HOPE, NC—Continued

PRECIPITATION RECORDS

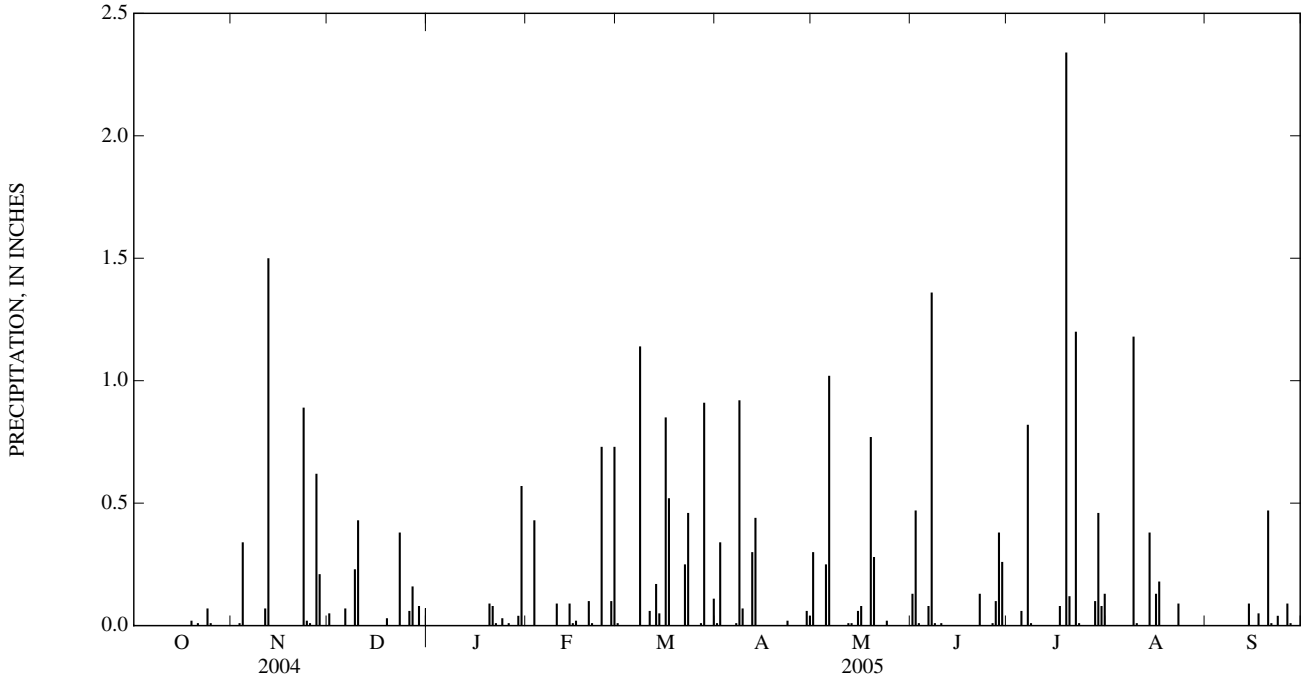
PERIOD OF RECORD.--September 1985 to current year. Records from September 1985 to September 1999 are unpublished and available in the USGS District Office in Raleigh, NC.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.01	0.01	0.30	0.13	0.00	0.00	0.00
2	---	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.47	0.00	0.00	0.00
3	---	0.01	0.00	0.00	0.43	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4	---	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	---	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.06	0.00	0.00
6	---	0.00	0.07	0.00	0.00	0.00	0.00	1.02	0.08	0.00	0.00	0.00
7	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.36	0.82	0.00	0.00
8	---	0.00	0.00	0.00	0.00	1.14	0.92	0.00	0.01	0.01	0.00	0.00
9	---	0.00	0.23	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.18	0.00
10	---	0.00	0.43	0.00	0.09	0.00	0.00	0.00	0.01	0.00	0.01	0.00
11	---	0.07	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
12	---	1.50	0.00	0.00	0.00	0.00	0.30	0.01	0.00	0.00	0.00	0.00
13	---	0.00	0.00	---	0.00	0.17	0.44	0.01	0.00	0.00	0.00	0.00
14	---	0.00	0.00	---	0.09	0.05	0.00	0.00	0.00	0.00	0.38	0.09
15	---	0.00	0.00	---	0.01	0.00	0.00	0.06	0.00	0.00	0.00	0.00
16	---	0.00	0.00	---	0.02	0.85	0.00	0.08	0.00	0.00	0.13	0.00
17	---	0.00	0.00	---	0.00	0.52	0.00	0.00	0.00	0.08	0.18	0.05
18	---	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.02	0.00	0.03	0.00	0.00	0.00	0.00	0.77	0.00	2.34	0.00	0.00
20	0.00	0.00	0.00	0.09	0.10	0.00	0.00	0.28	0.00	0.12	0.00	0.47
21	0.01	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.01	0.00	0.25	0.00	0.00	0.13	1.20	0.00	0.00
23	0.00	0.89	0.38	0.00	0.00	0.46	0.02	0.00	0.00	0.01	0.09	0.04
24	0.07	0.02	0.00	0.03	0.73	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09
27	0.00	0.62	0.16	0.00	0.10	0.01	0.00	0.00	0.10	0.00	0.00	0.01
28	0.00	0.21	0.00	0.00	0.73	0.91	0.00	0.00	0.38	0.10	0.00	0.00
29	0.00	0.00	0.08	0.04	---	0.00	0.06	0.00	0.26	0.46	0.00	0.00
30	0.00	0.00	0.00	0.57	---	0.00	0.04	0.00	0.00	0.08	0.00	0.00
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	0.13	0.00	---
TOTAL	---	3.67	1.49	---	2.31	4.54	2.21	2.80	2.95	5.41	1.97	0.76



0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°46'48", long 78°39'59", Wake County, Hydrologic Unit 03020201, on right bank, 0.1 mi below Pullen Drive at Pullen Park and 1.5 mi north of Raleigh.

DRAINAGE AREA.--1.17 mi^2.

PERIOD OF RECORD.--October 1996 to current year. Fragmentary records, June 1992 to September 1996, are unpublished and available in the files of the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow also occurred May 6, July 3, 1999, due to diversion by City of Raleigh, and many days during the current water year due to stream restoration and bridge construction upstream of gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.58	0.22	0.41	0.26	0.65	1.1	0.75	2.6	0.67	0.48	0.64	0.43
2	0.58	0.21	0.29	0.26	0.59	0.72	2.8	0.74	3.7	0.49	0.44	0.38
3	0.54	0.29	0.29	0.27	4.8	0.58	0.70	0.75	0.81	0.50	0.40	0.15
4	0.55	1.1	0.29	0.28	0.91	0.66	0.64	0.77	0.64	0.51	0.54	0.12
5	0.48	0.30	0.29	0.26	0.66	0.73	0.59	1.2	0.61	2.2	0.57	0.25
6	0.45	0.23	0.35	0.26	0.62	0.59	0.59	6.7	0.61	0.45	0.58	0.31
7	0.45	0.23	0.33	0.25	0.61	0.62	0.61	0.79	18	8.2	0.59	0.29
8	0.67	0.21	0.31	0.26	0.46	18	6.9	0.69	1.5	3.6	0.58	0.19
9	0.52	0.22	0.93	0.25	0.34	1.0	2.1	0.60	e1.4	0.45	19	0.27
10	0.37	0.23	3.1	0.26	0.39	0.84	0.70	0.54	e1.3	0.42	0.73	0.24
11	0.35	0.24	0.33	0.26	0.38	0.93	0.54	e0.55	e1.00	0.45	0.55	0.26
12	0.36	16	0.31	0.24	0.37	0.80	1.8	e0.55	e0.81	0.43	0.44	0.29
13	29	0.69	0.30	0.43	0.38	2.0	7.8	e0.55	e0.60	0.42	0.37	0.35
14	0.90	0.30	0.29	26	0.58	1.9	0.95	0.55	e0.52	0.41	0.39	0.61
15	0.71	0.29	0.27	0.93	0.43	0.76	0.87	0.70	e0.41	0.17	0.45	0.29
16	0.28	0.27	0.28	0.77	0.64	11	0.81	1.0	e0.37	0.00	0.42	0.28
17	0.26	0.26	0.29	0.70	0.44	10	0.80	0.52	e0.37	0.00	1.5	0.25
18	0.28	0.26	0.28	0.62	0.39	1.2	0.77	0.54	e0.45	3.9	0.39	0.13
19	0.33	0.26	0.31	0.62	0.38	0.90	0.76	1.7	0.75	0.51	0.37	0.01
20	0.28	0.25	0.25	0.67	0.64	0.81	0.72	3.7	0.82	2.0	0.34	11
21	0.28	0.26	0.27	0.99	0.63	0.77	0.69	1.1	e0.42	0.40	0.33	0.70
22	0.25	0.29	0.27	1.1	0.39	2.2	0.72	0.59	0.41	7.6	0.29	0.11
23	0.27	4.2	1.3	0.66	0.40	5.9	0.77	0.59	0.31	0.83	0.86	0.12
24	0.32	0.44	0.30	0.61	9.5	0.90	0.98	0.58	0.35	0.41	0.27	0.12
25	0.23	0.34	0.26	0.61	0.71	0.83	1.1	0.59	0.37	0.39	0.32	0.13
26	0.22	0.30	0.45	0.65	0.56	0.80	1.0	0.59	0.44	0.35	0.27	0.15
27	0.23	4.0	0.42	0.64	0.80	0.81	0.94	0.58	0.71	0.40	0.26	0.24
28	0.24	4.7	0.33	0.61	14	13	0.66	0.60	5.0	1.5	0.17	0.11
29	0.24	0.34	0.35	0.75	---	1.0	0.76	0.59	1.7	4.9	0.52	0.11
30	0.24	0.31	0.32	7.1	---	0.69	0.75	0.64	0.54	0.70	0.47	0.40
31	0.23	---	0.28	0.76	---	1.1	---	0.57	---	5.3	0.44	---
TOTAL	40.69	37.24	14.05	48.33	41.65	83.14	40.57	32.76	45.59	48.37	33.49	18.29
MEAN	1.31	1.24	0.45	1.56	1.49	2.68	1.35	1.06	1.52	1.56	1.08	0.61
MAX	29	16	3.1	26	14	18	7.8	6.7	18	8.2	19	11
MIN	0.22	0.21	0.25	0.24	0.34	0.58	0.54	0.52	0.31	0.00	0.17	0.01
CFSM	1.12	1.06	0.39	1.33	1.27	2.29	1.16	0.90	1.30	1.33	0.92	0.52
IN.	1.29	1.18	0.45	1.54	1.32	2.64	1.29	1.04	1.45	1.54	1.06	0.58

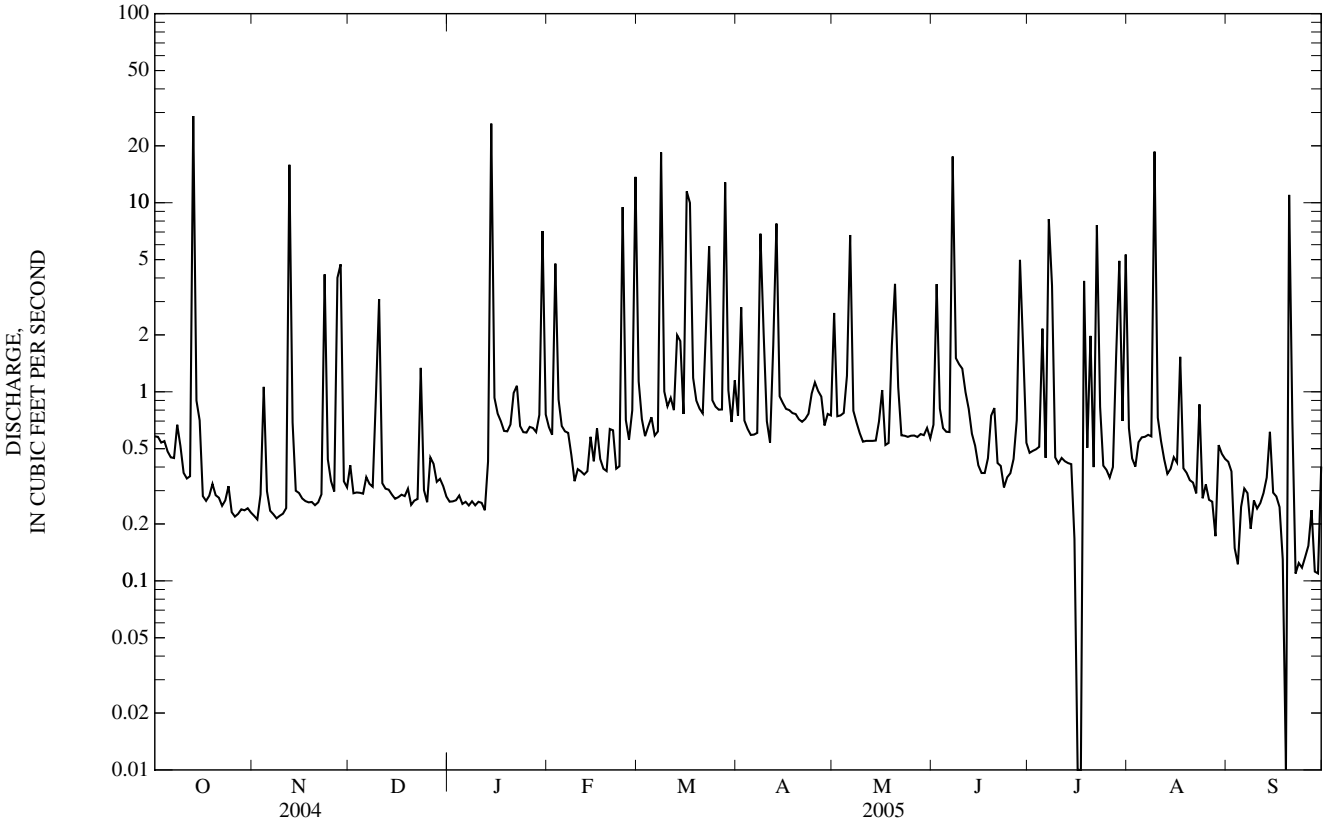
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	1.99	1.41	1.56	2.58	2.31	2.85	1.75	1.13	2.05	2.76	3.20	3.77
MAX	4.95	2.70	3.29	6.08	5.45	6.58	2.85	1.71	5.96	5.89	8.11	17.8
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(1997)	(2001)	(2003)	(2003)	(1999)
MIN	0.64	0.49	0.45	0.77	1.17	1.49	0.66	0.49	0.71	1.16	0.71	0.61
(WY)	(2001)	(2002)	(2005)	(2001)	(1999)	(2004)	(2002)	(2000)	(1999)	(1999)	(1997)	(2005)

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	652.22		484.17			
ANNUAL MEAN	1.78		1.33		2.28	
HIGHEST ANNUAL MEAN					3.66	2003
LOWEST ANNUAL MEAN					1.33	2005
HIGHEST DAILY MEAN	34	Aug 30	29	Oct 13	119	Jul 24, 1997
LOWEST DAILY MEAN	0.19	May 15	0.00	Jul 16	0.00	Oct 6, 1998
ANNUAL SEVEN-DAY MINIMUM	0.23	Oct 27	0.14	Sep 22	0.01	Apr 30, 2000
MAXIMUM PEAK FLOW			602	Jan 14	2,590	Jul 24, 1997
MAXIMUM PEAK STAGE			6.60	Jan 14	9.23	Jul 24, 1997
INSTANTANEOUS LOW FLOW			0.00*	Jul 15	0.00*	Oct 6, 1998
ANNUAL RUNOFF (CFSM)	1.52		1.13		1.95	
ANNUAL RUNOFF (INCHES)	20.74		15.39		26.47	
10 PERCENT EXCEEDS	4.1		2.0		4.3	
50 PERCENT EXCEEDS	0.65		0.54		0.64	
90 PERCENT EXCEEDS	0.28		0.25		0.24	

* See REMARKS.
e Estimated.



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°45'30", long 78°34'59", Wake County, Hydrologic Unit 03020201, at bridge on Secondary Road 2544, 0.9 mi upstream from Big Branch, and 3.5 mi southeast of Raleigh.

DRAINAGE AREA.--29.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190.8 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from computation of peak flow through culvert; maximum gage height, 17.03 ft, from high-water mark in gage shelter.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	9.8	21	12	27	101	32	55	10	3.6	27	e4.8
2	14	9.0	16	11	20	46	71	29	71	2.8	11	e3.0
3	12	11	13	11	67	30	70	19	44	2.9	8.0	2.8
4	15	24	11	11	59	25	33	15	26	2.5	e6.1	2.4
5	13	26	10	11	32	22	24	16	18	5.0	3.5	2.0
6	9.6	16	11	11	23	21	20	141	14	11	2.9	1.9
7	8.3	12	19	11	19	20	22	55	42	6.2	2.9	1.9
8	7.3	9.8	12	10	18	190	45	26	215	105	3.5	1.8
9	7.4	8.3	24	9.5	16	90	110	17	63	23	97	e1.5
10	e6.9	7.3	116	9.3	17	35	44	14	33	11	103	e1.5
11	e6.3	7.2	47	10	15	23	27	13	21	5.6	65	e1.5
12	e6.0	51	25	8.8	14	19	21	41	14	4.0	31	e1.6
13	107	223	17	10	13	15	174	175	12	3.1	14	e1.7
14	162	48	13	412	15	57	70	52	11	3.6	7.8	e1.8
15	44	24	11	172	19	26	34	29	9.0	3.8	5.9	e1.8
16	27	17	9.6	47	17	106	23	28	7.9	2.9	7.0	e1.6
17	18	13	9.6	30	21	319	19	17	8.6	6.2	18	e1.7
18	14	12	9.5	22	16	115	17	13	6.2	23	8.3	e1.6
19	14	10	9.7	19	14	57	16	24	5.2	25	5.0	1.8
20	14	9.6	11	18	13	39	15	62	4.7	28	3.9	10
21	13	8.0	9.1	24	21	30	14	70	4.0	13	3.5	63
22	12	7.0	9.3	19	18	25	13	29	4.3	10	4.5	14
23	11	85	37	22	15	131	14	18	3.8	59	12	3.8
24	12	64	27	16	128	59	15	13	4.1	27	1.7	1.8
25	12	28	16	15	69	34	14	10	5.6	16	2.3	1.5
26	12	16	16	15	42	26	14	9.4	5.5	11	2.5	1.5
27	11	12	22	14	28	23	14	9.1	11	4.9	2.0	1.7
28	11	166	18	12	220	167	13	9.6	27	2.8	2.3	1.5
29	10	44	16	12	---	81	14	9.2	21	67	3.8	1.5
30	10	24	17	111	---	40	17	8.7	8.2	50	5.2	1.5
31	10	---	14	45	---	34	---	9.3	---	31	5.8	---
TOTAL	645.8	1,002.0	616.8	1,160.6	996	2,006	1,029	1,036.3	730.1	569.9	476.4	140.5
MEAN	20.8	33.4	19.9	37.4	35.6	64.7	34.3	33.4	24.3	18.4	15.4	4.68
MAX	162	223	116	412	220	319	174	175	215	105	103	63
MIN	6.0	7.0	9.1	8.8	13	15	13	8.7	3.8	2.5	1.7	1.5

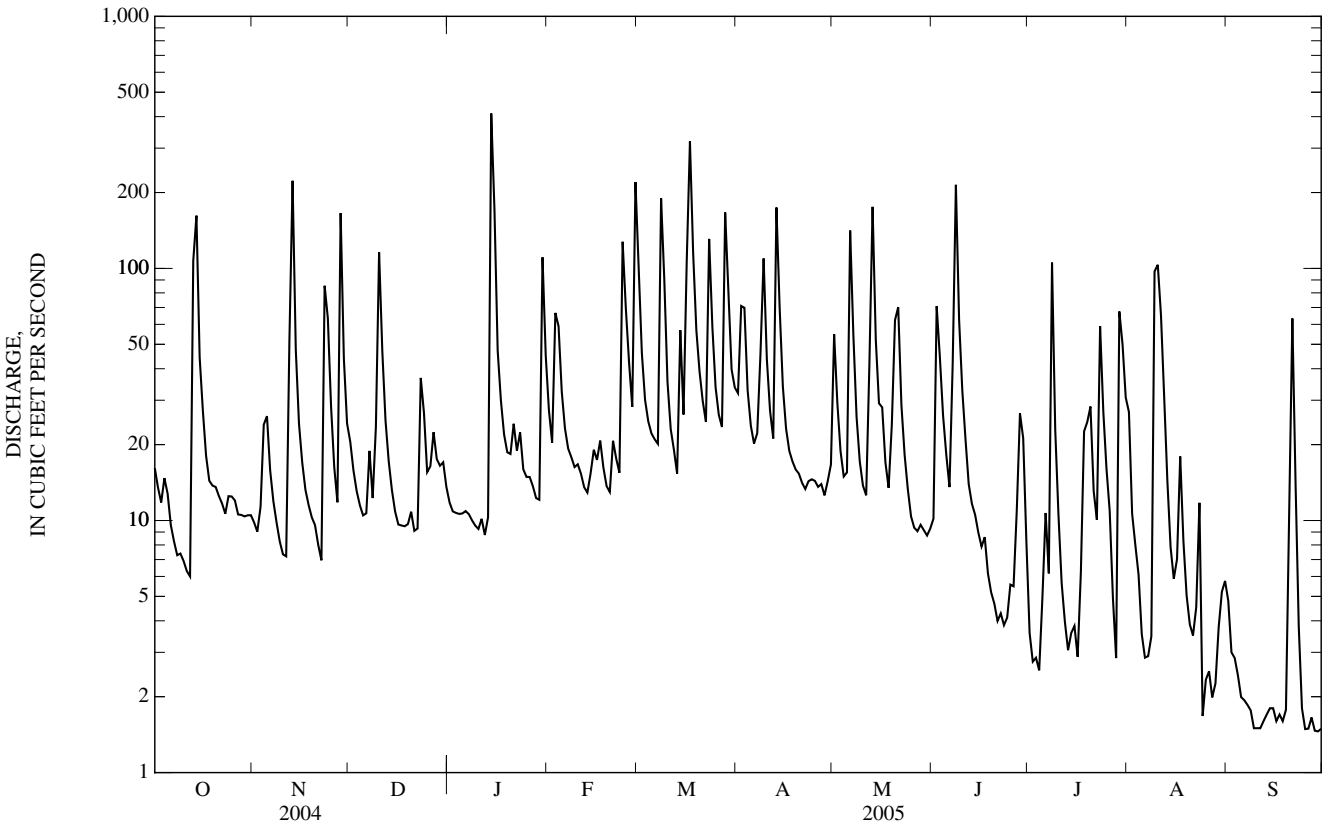
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	30.9	23.5	29.6	47.8	45.3	57.6	41.1	20.9	31.5	31.7	39.2	68.9
MAX	79.3	44.5	58.5	106	98.0	123	84.5	34.3	81.9	54.3	114	263
(WY)	(2003)	(2003)	(2003)	(1998)	(1998)	(1998)	(2003)	(2003)	(2001)	(2003)	(2004)	(1999)
MIN	9.04	5.69	15.2	13.9	21.9	26.0	20.9	3.03	11.9	11.3	8.00	4.68
(WY)	(2001)	(2002)	(2001)	(2001)	(1999)	(2002)	(1999)	(2002)	(2002)	(1999)	(1997)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	12,940.4		10,409.4			
ANNUAL MEAN	35.4		28.5		37.9	
HIGHEST ANNUAL MEAN					61.2	2003
LOWEST ANNUAL MEAN					23.4	2002
HIGHEST DAILY MEAN	504	Aug 15	412	Jan 14	3,600	Sep 6, 1996
LOWEST DAILY MEAN	2.6	Jul 10	1.5	Sep 9	0.50	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	4.7	Jul 6	1.6	Sep 24	0.50	Aug 8, 2002
MAXIMUM PEAK FLOW			802	Jan 14	6,760*	Sep 6, 1996
MAXIMUM PEAK STAGE			8.66	Jan 14	17.03*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		NOT DETERMINED	
10 PERCENT EXCEEDS	74		66		70	
50 PERCENT EXCEEDS	17		14		16	
90 PERCENT EXCEEDS	8.1		3.0		6.0	

* See REMARKS.
e Estimated.

02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC—Continued



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC—Continued

PRECIPITATION RECORDS

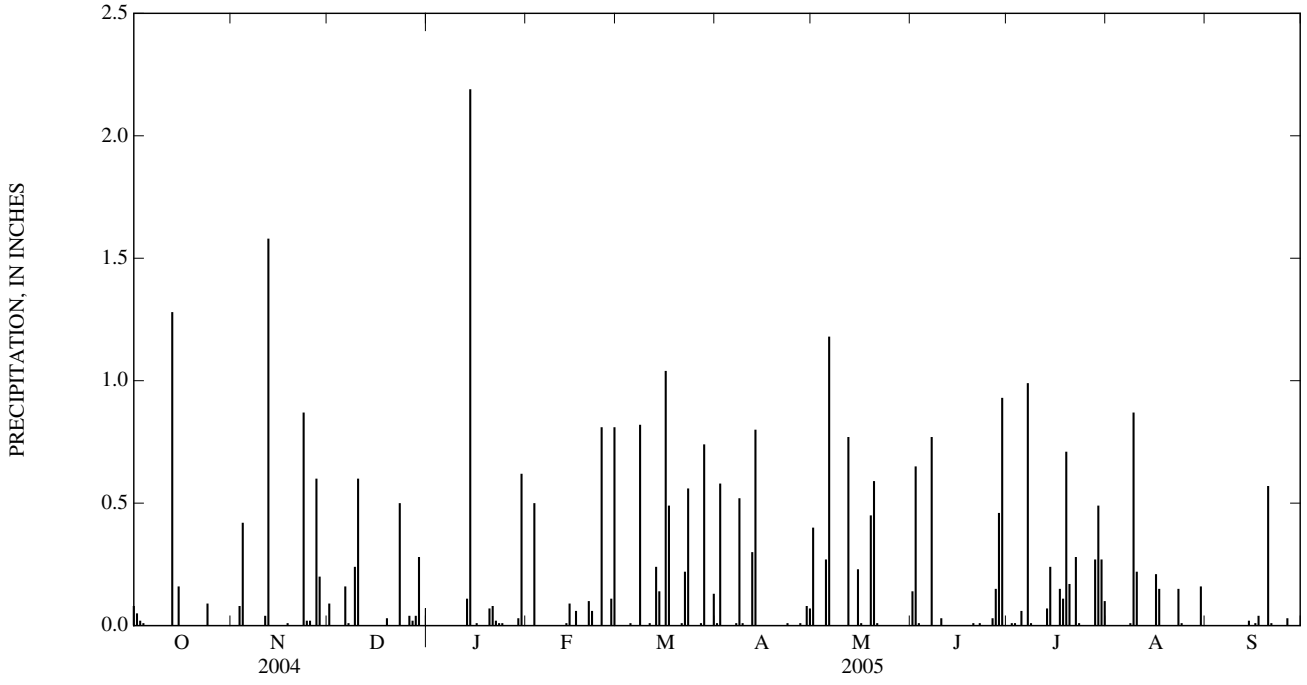
PERIOD OF RECORD.--July 1996 to current year. Records from July 1996 to September 1998 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

GAGE.--Tipping bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.08	0.00	0.09	0.00	0.00	0.00	0.01	0.40	0.14	0.00	0.00	---
2	0.05	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.65	0.01	0.00	---
3	0.02	0.08	0.00	0.00	0.50	0.00	0.00	0.00	0.01	0.01	0.00	0.00
4	0.01	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.27	0.00	0.06	0.00	0.00
6	0.00	0.00	0.16	0.00	0.00	0.00	0.00	1.18	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.77	0.99	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.82	0.52	0.00	0.00	0.01	0.01	0.00
9	0.00	0.00	0.24	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.87	0.00
10	---	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.22	0.00
11	---	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.58	0.00	0.00	0.00	0.00	0.30	0.77	0.00	0.00	0.00	0.00
13	1.28	0.00	0.00	0.11	0.01	0.24	0.80	0.00	0.00	0.07	0.00	0.00
14	0.00	0.00	0.00	2.19	0.09	0.14	0.00	0.00	0.00	0.24	0.00	0.02
15	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.06	1.04	0.00	0.01	0.00	0.00	0.21	0.01
17	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.15	0.15	0.04
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
19	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.45	0.00	0.71	0.00	0.00
20	0.00	0.00	0.00	0.07	0.10	0.00	0.00	0.59	0.01	0.17	0.00	0.57
21	0.00	0.00	0.00	0.08	0.06	0.01	0.00	0.01	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.02	0.00	0.22	0.00	0.00	0.01	0.28	0.00	0.00
23	0.00	0.87	0.50	0.01	0.00	0.56	0.01	0.00	0.00	0.01	0.15	0.00
24	0.09	0.02	0.00	0.01	0.81	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.03
27	0.00	0.60	0.02	0.00	0.11	0.01	0.01	0.00	0.15	0.00	0.00	0.00
28	0.00	0.20	0.04	0.00	0.81	0.74	0.00	0.00	0.46	0.27	0.00	0.00
29	0.00	0.00	0.28	0.03	---	0.00	0.08	0.00	0.93	0.49	0.00	0.00
30	0.00	0.00	0.00	0.62	---	0.00	0.07	0.00	0.00	0.27	0.16	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.00	---	0.10	0.00	---
TOTAL	---	3.84	2.01	3.15	2.55	4.42	2.40	3.91	3.19	3.95	1.78	---



02087500 NEUSE RIVER NEAR CLAYTON, NC

LOCATION.--Lat 35°38'50", long 78°24'19", Johnston County, Hydrologic Unit 03020201, on left bank at downstream side of bridge on State Highway 42, 2.3 mi upstream from Mill Creek, and 3 mi east of Clayton.

DRAINAGE AREA.--1,150 mi^2.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 1032: 1930, 1935(M). WSP 1333: 1935. WSP 1503: 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 128.41 ft above NGVD of 1929. Prior to Mar. 18, 1942, at site 1,100 ft upstream at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Flow regulated by Falls Lake (station 02087182), since Dec. 7, 1983. The City of Raleigh diverts water upstream from station, most of which was returned upstream from station as treated effluent. Prior to regulation, maximum discharge: 22,900 ft^3/s, Sept. 19, 1945; gage height: 22.12 ft; minimum discharge: 44 ft^3/s, Sept. 15, 1932; gage height: 0.28 ft, at site then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 23, 1919, reached a stage of 21.15 ft, from floodmark at former site; discharge 21,200 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	322	1,740	481	959	1,660	2,180	460	265	278	606	308
2	441	318	1,690	462	997	1,830	1,110	500	364	282	432	285
3	506	316	1,640	456	1,030	2,610	1,670	407	486	341	341	279
4	480	337	1,180	454	1,810	2,690	2,550	382	361	347	307	273
5	537	460	911	452	1,680	1,990	2,990	377	322	345	281	269
6	474	391	896	451	1,570	1,660	3,020	832	298	309	298	272
7	427	348	904	445	1,510	1,630	2,500	983	313	263	267	272
8	366	337	583	436	1,470	1,960	1,480	509	1,950	729	273	273
9	325	322	471	436	927	2,300	2,050	419	907	616	580	270
10	316	314	840	437	800	1,700	1,960	381	555	466	1,660	265
11	311	310	1,160	438	524	1,550	1,850	357	457	394	923	262
12	304	340	803	436	451	1,500	1,740	346	383	355	643	263
13	456	1,830	664	438	417	1,440	1,800	467	348	324	513	262
14	1,810	939	874	2,050	429	1,510	1,210	421	331	336	459	275
15	807	582	2,080	2,620	447	972	815	380	311	286	579	292
16	607	481	2,280	2,080	792	868	685	478	292	255	470	282
17	461	433	2,280	2,340	910	2,770	628	396	276	248	449	274
18	403	399	1,820	2,180	883	2,190	605	340	299	294	416	273
19	376	377	1,570	2,490	598	2,480	589	326	318	329	331	272
20	362	1,270	1,560	2,650	505	2,530	574	523	319	828	311	273
21	351	1,840	1,530	2,680	533	2,380	503	588	290	660	311	441
22	340	1,790	1,510	2,210	545	1,660	479	436	272	413	313	372
23	331	824	711	2,060	445	1,560	478	369	308	631	320	274
24	328	1,150	676	2,000	700	2,520	466	336	320	469	327	246
25	347	732	519	1,570	1,030	2,580	459	337	319	331	307	268
26	335	583	493	1,410	664	1,670	418	320	333	282	293	291
27	327	504	512	648	578	1,450	401	306	342	279	293	289
28	323	1,320	500	439	1,330	2,390	399	289	397	284	315	269
29	320	1,030	479	437	---	2,000	364	277	515	611	328	238
30	323	1,380	500	776	---	2,900	383	270	356	925	328	230
31	323	---	502	819	---	3,140	---	274	---	646	336	---
TOTAL	13,883	21,579	33,878	37,281	24,534	62,090	36,356	13,086	12,607	13,156	13,610	8,412
MEAN	448	719	1,093	1,203	876	2,003	1,212	422	420	424	439	280
MAX	1,810	1,840	2,280	2,680	1,810	3,140	3,020	983	1,950	925	1,660	441
MIN	304	310	471	436	417	868	364	270	265	248	267	230

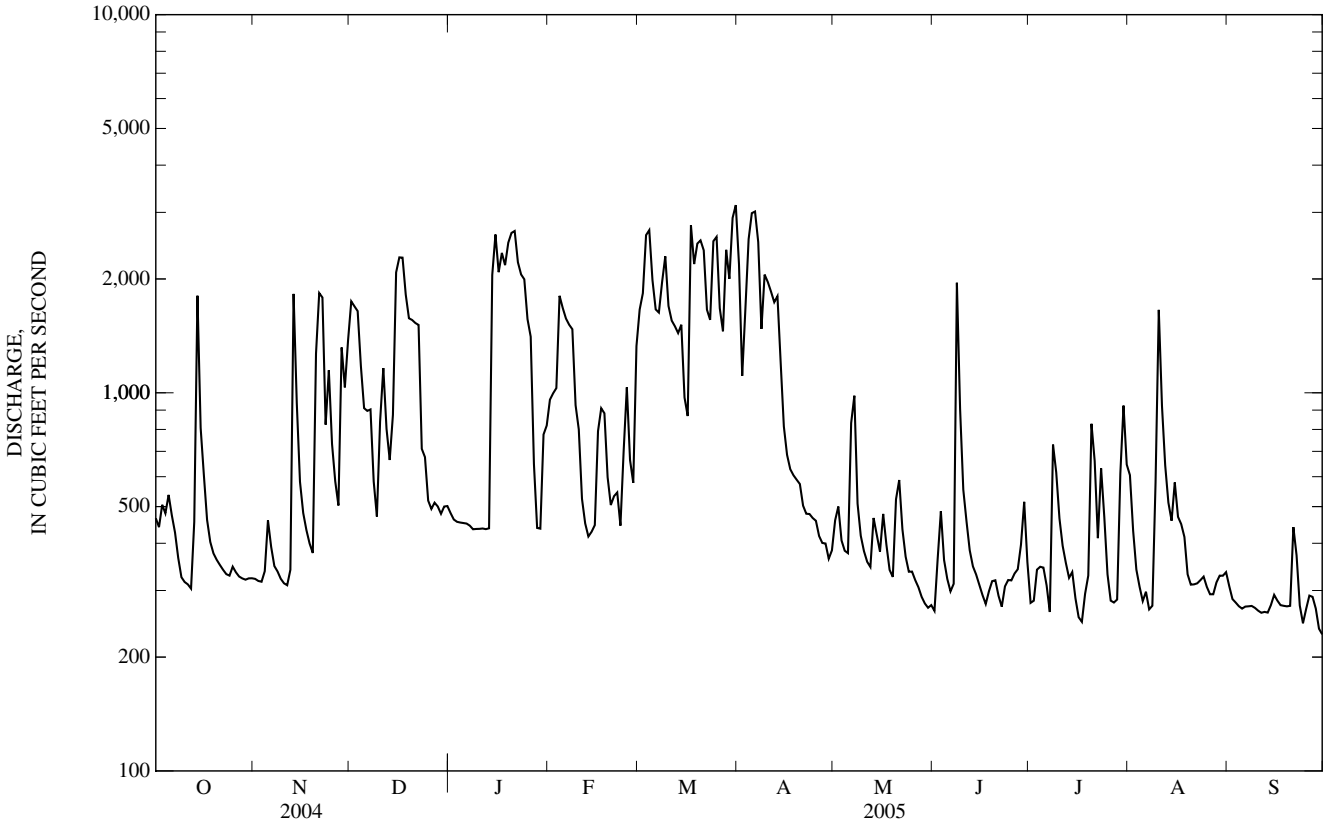
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,* BY WATER YEAR (WY)

MEAN	710	690	932	1,347	1,792	2,253	1,773	887	648	606	667	887
MAX	3,822	2,201	2,623	2,821	4,961	5,688	4,813	2,864	2,170	1,841	1,539	6,620
(WY)	(2000)	(1996)	(2003)	(1984)	(1998)	(1998)	(2003)	(1989)	(2003)	(1995)	(1989)	(1996)
MIN	212	215	237	375	452	422	290	292	267	234	204	136
(WY)	(1984)	(1992)	(1995)	(2001)	(2002)	(2002)	(1986)	(2002)	(1999)	(1983)	(1983)	(1985)

02087500 NEUSE RIVER NEAR CLAYTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005*	
ANNUAL TOTAL	304,380		290,472			
ANNUAL MEAN	832		796		1,095	
HIGHEST ANNUAL MEAN					2,052	2003
LOWEST ANNUAL MEAN					425	2002
HIGHEST DAILY MEAN	5,310	Aug 16	3,140	Mar 31	19,700	Sep 17, 1999
LOWEST DAILY MEAN	243	Jun 22	230	Sep 30	105	Sep 16, 1985
ANNUAL SEVEN-DAY MINIMUM	277	May 24	262	Sep 24	117	Sep 12, 1985
MAXIMUM PEAK FLOW			4,060	Jan 14	20,500	Sep 17, 1999
MAXIMUM PEAK STAGE			7.43	Jan 14	20.67	Sep 17, 1999
INSTANTANEOUS LOW FLOW			209	Sep 30	78	Sep 18, 1985
10 PERCENT EXCEEDS	1,800		1,960		3,120	
50 PERCENT EXCEEDS	586		460		472	
90 PERCENT EXCEEDS	315		282		257	

* Regulated period only (1983-2005). See REMARKS.



0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC

LOCATION.--Lat 35°31'13", long 78°20'57", Johnston County, Hydrologic Unit 03020201, at water supply intake, 0.8 mi above U.S. Highway 70 and 0.9 mi northwest of Smithfield.

DRAINAGE AREA.--1,200 mi^2.

PERIOD OF RECORD.--Water years 2003 to current year.

REMARKS.--Station operated as part of NAWQA program from October 2002 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	1,4-Dichlorobenzene water, fltrd, ug/L (34572)	1-Methylnaphthalene, water, fltrd, ug/L (62054)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)
OCT													
12...	1000	9	757	7.8	82	7.5	204	17.4	<.5	<.5	<.09	<.016	<.04
18...	1400	9	751	8.9	94	7.2	155	17.3	<.5	<.5	--	--	--
DEC													
29...	1130	9	771	11.8	88	7.7	313	3.4	M	<.5	<.09	<.016	<.04
JAN													
28...	1230	9	775	11.0	84	6.9	171	4.6	<.5	<.5	--	--	--
FEB													
02...	1200	9	768	12.0	94	7.7	152	5.2	<.5	<.5	<.09	<.016	.04
17...	1015	9	755	10.6	96	7.2	146	10.5	--	--	--	--	--
MAR													
10...	1130	9	753	11.2	96	7.1	127	8.3	<.5	<.5	M	<.016	.17
APR													
14...	1130	9	756	9.3	88	7.1	109	12.7	<.5	<.5	<.09	<.016	E.53
MAY													
09...	0930	9	758	8.3	86	7.0	140	16.7	--	--	<.09	<.032	.35
31...	1130	9	760	6.5	74	7.3	213	21.4	<.5	<.5	<.09	<.016	<.04
JUN													
27...	1030	9	763	6.8	82	7.3	212	25.4	--	--	<.09	<.016	E.03
JUL													
12...	1030	9	761	6.0	76	7.4	190	27.0	<.5	<.5	<.09	<.016	E.03
AUG													
05...	1000	9	763	6.2	79	7.4	201	27.5	--	--	E.01	<.016	E.07

Date	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Diethylaniline water fltrd 0.7u GF ug/L (82660)	2,6-Dimethylnaphthalene, water, fltrd, ug/L (62055)	2-[(2-Ethyl-6methylphenyl) amino]2 oxoESA ug/L (62850)	2Chloro-2',6-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	Alachlor 2nd amide, water, fltrd, ug/L (63781)	Acetochlor 3rd amide, water, fltrd, ug/L (63782)	2-Ethyl-6-methylaniline water, fltrd, ug/L (61620)	OIET, water, fltrd, ug/L (50355)	2-Methylnaphthalene, water, fltrd, ug/L (62056)	3,4-Dichloroaniline water fltrd, ug/L (61625)
OCT													
12...	<.02	<.006	<.5	<.02	<.005	<.006	<.08	<.02	<.02	<.004	E.028	<.5	.060
18...	--	--	<.5	--	--	--	--	--	--	--	--	<.5	--
DEC													
29...	<.02	<.006	<.5	<.02	<.005	<.006	<.08	<.02	<.02	<.004	E.025	<.5	.013
JAN													
28...	--	--	<.5	--	--	--	--	--	--	--	--	<.5	--
FEB													
02...	<.02	<.006	<.5	<.02	<.005	E.007	E.03	<.02	<.02	<.004	E.023	<.5	.014
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.02	<.006	<.5	<.02	<.005	<.006	E.06	<.02	<.02	<.004	<.032	<.5	E.021
APR													
14...	<.02	<.006	<.5	<.02	<.005	<.006	E.04	<.02	<.02	<.004	<.032	<.5	E.022
MAY													
09...	<.02	<.006	--	<.02	<.005	E.007	E.04	<.02	<.02	<.004	<.032	--	--
31...	<.02	<.006	<.5	.02	<.005	<.006	<.08	<.02	<.02	<.004	<.032	<.5	E.080
JUN													
27...	<.02	<.006	--	<.02	<.005	E.006	<.08	<.02	<.02	<.004	<.032	--	E.062
JUL													
12...	<.02	<.006	<.5	<.02	<.005	E.007	<.08	<.02	<.02	<.004	<.032	<.5	E.083
AUG													
05...	<.02	<.006	--	<.02	<.005	E.008	<.08	<.02	<.02	<.004	<.032	--	E.080

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	3,5-Dichloroaniline water, fltrd, ug/L (61627)	3-beta-Coprostanol, water, fltrd, ug/L (62057)	3-Hydroxycarbofuran, wat flt 0.7u GF ug/L (49308)	3-Ketocarbofuran, water, fltrd, ug/L (50295)	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	3-tert-Butyl-4-hydroxyanisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4-Cumylphenol, water, fltrd, ug/L (62060)	4-Octylphenol, water, fltrd, ug/L (62061)	4-Nonylphenol, water, fltrd, ug/L (62085)	4-tert-Octylphenol, water, fltrd, ug/L (62062)	5-Methyl-1H-benzotriazole, wat flt ug/L (62063)	9,10-Anthraquinone water, fltrd, ug/L (62066)
OCT													
12...	--	E1	<.008	<.02	<1	<5	<.006	<1	<1	<5	<1	<2	<.5
18...	--	<2	--	--	<1	<5	--	<1	<1	<5	<1	<2	<.5
DEC													
29...	--	M	<.008	<.02	<1	<5	<.006	<1	<1	<5	<1	<2	<.5
JAN													
28...	--	<2	--	--	<1	<5	--	<1	<1	<5	<1	<2	<.5
FEB													
02...	--	M	<.008	<.02	<1	<5	<.006	<1	<1	M	<1	<2	<.5
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	--	M	<.008	<.02	<1	<5	E.003	<1	<1	<5	<1	<2	<.5
APR													
14...	--	M	<.008	<.02	<1	<5	<.006	<1	<1	<5	<1	<2	<.5
MAY													
09...	--	--	<.008	<.02	--	--	E.004	--	--	--	--	--	--
31...	--	<2	<.008	<.02	<1	<5	<.006	<1	<1	<5	<1	M	<.5
JUN													
27...	<.004	--	<.008	<.20	--	--	<.006	--	--	--	--	--	--
JUL													
12...	<.004	<2	<.008	--	<1	<5	E.003	<1	<1	<5	<1	--	<.5
AUG													
05...	<.004	--	<.008	<.02	--	--	<.006	--	--	--	--	--	--

Date	Acetochlor ESA, water, fltrd 0.7u GF ug/L (61029)	Acetochlor OA, water, fltrd 0.7u GF ug/L (61030)	Acetochlor SAA, water, fltrd, ug/L (62847)	Acetochlor, water, fltrd, ug/L (49260)	Acetophenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Acifluorfen, water, fltrd 0.7u GF ug/L (49315)	Alachlor ESA SA, water, fltrd, ug/L (62849)	Alachlor ESA, water, fltrd 0.7u GF ug/L (50009)	Alachlor OA, water, fltrd 0.7u GF ug/L (61031)	Alachlor SAA, water, fltrd, ug/L (62848)	Alachlor, water, fltrd, ug/L (46342)	Aldicarb sulfone water, fltrd 0.7u GF ug/L (49313)
OCT													
12...	<.02	<.02	<.02	<.006	<.5	E.2	<.028	<.02	<.02	<.02	<.02	<.005	<.02
18...	--	--	--	--	<.5	E.2	--	--	--	--	--	--	--
DEC													
29...	<.02	<.02	<.02	<.006	<.5	E.2	<.028	<.02	<.02	<.02	<.02	<.005	<.02
JAN													
28...	--	--	--	--	<.5	E.2	--	--	--	--	--	--	--
FEB													
02...	<.02	<.02	<.02	<.006	<.5	E.2	<.028	<.02	<.02	<.02	<.02	<.005	<.02
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.02	<.02	<.02	<.02	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.02	<.02
APR													
14...	<.02	.02	<.02	<.02	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.02	<.02
MAY													
09...	<.02	<.02	<.02	<.02	--	--	<.028	<.02	<.02	<.02	<.02	<.02	<.02
31...	<.02	<.02	<.02	<.006	<.5	E.2	<.028	<.02	.02	<.02	<.02	<.005	<.02
JUN													
27...	<.02	<.02	<.02	<.02	--	--	<.028	<.02	<.02	<.02	<.02	<.02	<.02
JUL													
12...	<.02	<.02	<.02	.03	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.02	<.02
AUG													
05...	<.02	<.02	<.02	<.02	--	--	<.028	<.02	<.02	<.02	<.02	<.02	<.02

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Aldicarb sulfoxide, wat flt 0.7u GF ug/L (49314)	Aldicarb, water, fltrd 0.7u GF ug/L (49312)	alpha-Endosulfan, water, fltrd, ug/L (34362)	Anthracene, water, fltrd, ug/L (34221)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Bendiocarb, water, fltrd, ug/L (50299)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensulfuron, water, fltrd, ug/L (61693)	Bentazon, water, fltrd 0.7u GF ug/L (38711)	Benzo[a]pyrene, water, fltrd, ug/L (34248)
OCT													
12...	<.022	<.04	--	<.5	.012	<.07	<.050	<.02	<.010	.036	<.02	<.01	<.5
18...	--	--	--	<.5	--	--	--	--	--	--	--	--	<.5
DEC													
29...	<.022	<.04	--	<.5	.008	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
JAN													
28...	--	--	--	<.5	--	--	--	--	--	--	--	--	<.5
FEB													
02...	<.022	<.04	--	<.5	.013	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.022	<.04	--	<.5	.015	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
APR													
14...	<.022	<.04	--	<.5	.049	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
MAY													
09...	<.022	<.04	--	--	.024	<.07	<.050	<.02	<.010	<.022	<.02	<.01	--
31...	<.022	<.04	--	<.5	<.011	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
JUN													
27...	<.022	<.04	<.005	--	.009	<.07	<.050	<.02	<.010	<.022	<.02	<.01	--
JUL													
12...	<.022	<.04	<.005	<.5	.012	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
AUG													
05...	<.022	<.04	<.005	--	.010	<.07	<.050	<.02	<.010	<.022	<.02	<.01	--

Date	Benzophenone water, fltrd, ug/L (62067)	beta-Sitosterol, water, fltrd, ug/L (62068)	beta-Stigmastanol, water, fltrd, ug/L (62086)	Bisphenol A, water, fltrd, ug/L (62069)	Bromacil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd 0.7u GF ug/L (49311)	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Carbaryl, water, fltrd 0.7u GF ug/L (49310)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbazole, water, fltrd, ug/L (62071)	Carbofuran, water, fltrd 0.7u GF ug/L (49309)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)
OCT													
12...	<.5	E1	E2	<1	<.02	<.03	.032	<.5	<.02	<.041	<.5	<.016	--
18...	<.5	<2	<2	<1	<.5	--	E.1	<.5	--	<1	<.5	--	--
DEC													
29...	<.5	M	M	<1	<.02	<.03	E.060	<.5	<.02	<.041	<.5	<.016	--
JAN													
28...	E.1	<2	<2	<1	<.5	--	E.1	<.5	--	<1	<.5	--	--
FEB													
02...	<.5	<2	M	<1	<.02	<.03	.035	<.5	<.02	E.011	<.5	<.016	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.5	<2	M	<1	<.02	<.03	.050	M	<.02	<.041	<.5	<.016	--
APR													
14...	<.5	<2	M	<1	<.02	<.03	.056	M	E.01	E.024	<.5	<.016	--
MAY													
09...	--	--	--	--	<.02	<.03	.065	--	M	E.014	--	<.016	--
31...	M	<2	<2	--	<.02	<.03	.022	M	<.02	<.041	<.5	<.016	--
JUN													
27...	--	--	--	--	<.02	<.03	<.018	--	<.02	E.008	--	<.016	<.020
JUL													
12...	M	<2	<2	--	<.02	<.03	<.030	M	E.01	E.013	<.5	<.016	<.020
AUG													
05...	--	--	--	--	<.02	<.03	.028	--	E.02	E.026	--	<.016	<.020

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Chloramben methyl ester, water, fltrd, ug/L (61188)	Chlorimuron, water, fltrd, ug/L (50306)	Chloro-diamino-s-triazine, wat flt ug/L (04039)	Chlorothalonil, water, fltrd 0.7u GF ug/L (49306)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	Cholesterol, water, fltrd, ug/L (62072)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	cis-Propiconazole, water, fltrd, ug/L (79846)	Clopyralid, water, fltrd 0.7u GF ug/L (49305)	Cotinine, water, fltrd, ug/L (62005)	Cyanazine, water, fltrd, ug/L (04041)	Cycloate, water, fltrd, ug/L (04031)
OCT													
12...	<.02	<.032	E.02	<.04	<.06	<.005	E2	<.006	--	<.02	<1.00	--	<.01
18...	--	--	--	--	--	<.5	<2	--	--	--	<1.00	--	--
DEC													
29...	<.02	<.032	<.04	--	<.06	<.005	M	<.006	--	<.02	<1.00	--	<.01
JAN													
28...	--	--	--	--	--	<.5	M	--	--	--	<1.00	--	--
FEB													
02...	<.02	<.032	<.04	<.04	<.06	<.005	M	<.006	--	<.02	<1.00	--	<.01
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.02	<.032	<.04	<.04	<.15	<.005	M	<.006	--	<.02	<1.00	--	<.01
APR													
14...	<.02	<.032	<.04	<.04	<.06	<.005	M	<.006	--	<.02	<1.00	--	<.01
MAY													
09...	<.02	<.032	<.04	<.04	<.06	<.005	--	<.006	--	<.02	--	--	<.01
31...	<.02	<.032	<.04	<.04	<.06	<.005	M	<.006	--	<.05	<1.00	--	<.01
JUN													
27...	<.02	<.032	<.04	<.04	<.06	<.005	--	<.006	<.008	<.02	--	<.018	<.01
JUL													
12...	<.02	<.032	<.04	<.04	<.06	E.004	<2	<.006	<.008	<.02	<1.00	<.018	<.01
AUG													
05...	<.02	<.032	<.04	<.04	<.06	<.005	--	<.006	<.008	<.02	--	<.018	<.01

Date	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin water, fltrd, ug/L (61586)	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water fltrd 0.7u GF ug/L (82682)	De-chloro-aceto-chlor, water, fltrd, ug/L (63778)	De-chloro-ala-chlor, water, fltrd, ug/L (63777)	De-chloro-dimeth-enamid, water, fltrd, ug/L (63779)	De-chloro-metola-chlor, water, fltrd, ug/L (63780)	DEET, water, fltrd, ug/L (62082)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)
OCT													
12...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	<.5	E.008	<.01	<.005
18...	--	--	--	--	--	--	--	--	--	E.1	--	--	<.5
DEC													
29...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	M	<.012	<.01	<.005
JAN													
28...	--	--	--	--	--	--	--	--	--	E.1	--	--	<.5
FEB													
02...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	M	E.007	<.01	.008
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	E.004	<.01	<.005
APR													
14...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	E.003	<.01	<.005
MAY													
09...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.008	<.01	<.005
31...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	E.007	--	.014
JUN													
27...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.005	--	<.005
JUL													
12...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	E.008	--	E.006
AUG													
05...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.008	--	E.006

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Dicamba water fltrd 0.7u GF ug/L (38442)	Dichlorprop, water, fltrd 0.7u GF ug/L (49302)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Diethoxynonylphenol, water, fltrd, ug/L (62083)	Diethoxyoctylphenol, water, fltrd ug/L (61705)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphenamid, water, fltrd, ug/L (04033)	Disulfoton sulfone water, fltrd, ug/L (61640)
OCT													
12...	<.04	<.03	<.08	<.009	E2	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
18...	--	--	--	--	E4	<1	--	--	--	--	--	--	--
DEC													
29...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
JAN													
28...	--	--	--	--	<5	<1	--	--	--	--	--	--	--
FEB													
02...	<.04	<.03	<.08	<.009	E2	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.04	<.03	<.08	<.009	E2	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
APR													
14...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
MAY													
09...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	--
31...	<.05	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
JUN													
27...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	<.01
JUL													
12...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	<.01
AUG													
05...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	<.01

Date	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	Diuron, water, fltrd 0.7u GF ug/L (49300)	D-Limonene, water, fltrd, ug/L (62073)	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Ethoxyoctylphenol, water, fltrd ug/L (61706)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fenuron water, fltrd 0.7u GF ug/L (49297)
OCT													
12...	--	.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
18...	--	--	<.5	--	--	--	--	--	<1	--	--	--	--
DEC													
29...	--	.02	<.5	--	--	<.0020	<.004	--	<1	<.049	--	<.03	<.02
JAN													
28...	--	--	<.5	--	--	--	--	--	<1	--	--	--	--
FEB													
02...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
APR													
14...	--	.03	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
MAY													
09...	--	.07	--	--	--	<.0020	<.004	--	--	<.049	<.04	<.03	<.02
31...	--	.02	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
JUN													
27...	<.02	E.02	--	<.014	<.004	<.002	<.004	<.005	--	<.049	<.04	<.03	<.02
JUL													
12...	<.02	.04	<.5	<.014	<.004	<.002	<.004	<.005	<1	<.049	<.04	<.03	<.02
AUG													
05...	<.02	.03	--	<.014	<.004	<.01	<.004	<.005	--	<.049	<.04	<.03	<.02

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Flumetsulam, water, fltrd, ug/L (61694)	Fluometuron water fltrd 0.7u GF ug/L (38811)	Fluoranthene water, fltrd, ug/L (34377)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	HHCB, water, fltrd, ug/L (62075)
OCT													
12...	E.003	E.009	E.012	E.031	<.02	<.02	<.02	<.04	<.02	<.5	<.003	<.003	<.5
18...	--	--	--	--	--	--	--	--	--	<.5	--	--	<.5
DEC													
29...	<.029	<.013	<.024	E.016	<.02	<.02	<.02	<.04	<.02	<.5	<.003	<.003	M
JAN													
28...	--	--	--	--	--	--	--	--	--	<.5	--	--	<.5
FEB													
02...	E.007	E.008	E.008	E.015	<.02	<.02	<.02	<.04	<.02	<.5	--	<.003	<.5
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.04	<.02	M	--	<.003	M
APR													
14...	<.029	<.013	<.024	E.016	<.02	<.02	<.02	<.04	<.02	<.5	--	<.003	<.5
MAY													
09...	E.007	E.009	<.024	E.021	<.02	<.02	<.02	<.04	<.02	--	--	<.003	--
31...	<.029	E.007	E.010	E.018	<.02	<.02	<.02	<.04	<.02	<.5	--	<.003	M
JUN													
27...	E.007	E.006	E.007	E.014	<.02	<.02	<.02	<.04	<.02	--	--	<.003	--
JUL													
12...	E.007	E.009	E.009	E.019	<.02	<.02	<.02	<.04	<.02	M	--	<.003	M
AUG													
05...	E.013	E.010	E.010	E.023	<.02	<.02	<.02	<.04	<.02	--	--	<.003	--

Date	Hexazinone, water, fltrd, ug/L (04025)	Hydroxyacetochlor, water, fltrd, ug/L (63784)	Hydroxyalachlor, water, fltrd, ug/L (63783)	Hydroxydimethenamid, water, fltrd, ug/L (64045)	Hydroxymetolachlor, water, fltrd, ug/L (63785)	Imazaquin, water, fltrd, ug/L (50356)	Imazethapyr, water, fltrd, ug/L (50407)	Imidacloprid water, fltrd, ug/L (61695)	Indole, water, fltrd, ug/L (62076)	Iprodione, water, fltrd, ug/L (61593)	Isoborneol, water, fltrd, ug/L (62077)	Isofenphos, water, fltrd, ug/L (61594)	Isophorone water, fltrd, ug/L (34409)
OCT													
12...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	E.019	<.5	<.387	<.5	<.003	<.5
18...	--	--	--	--	--	--	--	--	<.5	--	<.5	--	<.5
DEC													
29...	<.013	<.02	<.02	<.02	<.02	<.09	<.04	<.020	<.5	<.387	<.5	<.003	<.5
JAN													
28...	--	--	--	--	--	--	--	--	<.5	--	<.5	--	M
FEB													
02...	<.013	<.02	<.02	<.02	<.02	E.01	<.04	<.020	<.5	<.387	<.5	<.003	<.5
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	M
APR													
14...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	<.5
MAY													
09...	.019	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--
31...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	M
JUN													
27...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--
JUL													
12...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	<.5
AUG													
05...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Isopropylbenzene water, fltrd, ug/L (62078)	Isoquinoline, water, fltrd, ug/L (62079)	Linuron water fltrd 0.7u GF ug/L (38478)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Menthol water, fltrd, ug/L (62080)	Metalaxyl, water, fltrd, ug/L (50359)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methiocarb, water, fltrd 0.7u GF ug/L (38501)	Methomyl, water, fltrd 0.7u GF ug/L (49296)
OCT													
12...	<.5	<.5	<.01	<.030	<.027	<.03	<.01	<.5	E.01	<.005	<.006	<.010	<.020
18...	<.5	<.5	--	--	--	--	--	<.5	<.5	--	--	--	--
DEC													
29...	<.5	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
JAN													
28...	<.5	<.5	--	--	--	--	--	<.5	<.5	--	--	--	--
FEB													
02...	<.5	<.5	<.01	<.030	<.027	E.03	<.01	<.5	M	<.005	<.006	<.010	<.020
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.5	<.5	<.01	<.030	<.027	E.10	<.01	<.5	<.01	<.005	<.006	<.010	<.020
APR													
14...	<.5	<.5	<.01	<.030	<.027	<.05	<.01	<.5	<.01	<.010	<.006	<.010	<.020
MAY													
09...	--	--	<.01	<.030	<.027	.03	<.01	--	<.01	<.005	<.006	<.010	<.020
31...	<.5	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
JUN													
27...	--	--	<.01	<.030	<.027	<.03	<.01	--	E.01	.010	<.006	<.010	<.020
JUL													
12...	<.5	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
AUG													
05...	--	--	<.01	<.030	<.027	<.03	<.01	--	.03	.025	<.006	<.010	<.020

Date	Methyl acetate water unfltrd ug/L (77032)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Methyl salicylate, water, fltrd, ug/L (62081)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Metsulfuron, water, fltrd, ug/L (61697)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclobutanil water, fltrd, ug/L (61599)	N-(4-Chlorophenyl)-N'-methylurea, ug/L (61692)	Naphthalene, water, fltrd, ug/L (34443)
OCT													
12...	--	<.03	<.015	<.5	.06	.04	E.009	<.006	<.03	--	<.008	<.04	<.5
18...	--	--	--	<.5	--	--	<.5	--	--	--	--	--	<.5
DEC													
29...	<1.0	<.03	<.015	<.5	.03	<.02	<.010	<.006	<.03	--	<.008	<.04	<.5
JAN													
28...	--	--	--	M	--	--	<.5	--	--	--	--	--	<.5
FEB													
02...	<1.0	<.03	<.015	<.5	.03	<.02	.009	<.006	<.03	--	<.008	<.04	<.5
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<1.0	<.03	<.015	M	.07	.03	<.02	<.006	<.03	--	<.020	<.04	<.5
APR													
14...	<1.0	<.03	<.015	<.5	<.02	<.02	<.02	<.006	<.03	--	.018	<.04	<.5
MAY													
09...	--	<.03	<.015	--	<.02	<.02	<.02	<.006	<.03	--	<.008	<.04	--
31...	<1.0	<.03	<.015	M	.06	.04	.012	<.006	<.03	--	<.008	<.04	<.5
JUN													
27...	--	<.03	<.015	--	<.02	<.02	.02	<.006	<.03	<.003	<.008	<.04	--
JUL													
12...	--	<.03	<.015	<.5	.03	.03	.13	<.006	<.03	<.003	.011	<.04	<.5
AUG													
05...	--	<.03	<.015	--	.03	.02	<.02	<.006	<.03	<.003	.014	<.04	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Neburon water, fltrd 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, ug/L (50364)	Norflurazon, water, fltrd 0.7u GF ug/L (49293)	Oryzalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	Oxyfluorfen, water, fltrd, ug/L (61600)	p-Cresol, water, fltrd, ug/L (62084)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Pentachlorophenol, water, fltrd, ug/L (34459)	Phenanthrene, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
OCT													
12...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	<2	<.5	<.5	<.10	<.011
18...	--	--	--	--	--	--	<1	--	<2	<.5	.9	--	--
DEC													
29...	<.01	<.04	<.02	<.01	<.03	--	M	<.022	<2	<.5	E.1	<.10	<.011
JAN													
28...	--	--	--	--	--	--	M	--	<2	<.5	<.5	--	--
FEB													
02...	<.01	<.04	<.02	<.01	<.03	--	M	<.022	<2	<.5	E.4	<.10	<.011
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.01	<.04	<.02	<.01	<.03	--	M	<.075	<2	<.5	<.5	<.10	<.011
APR													
14...	<.01	<.04	<.02	<.01	<.03	--	<1	E.016	--	<.5	E.4	<.10	<.011
MAY													
09...	<.01	<.04	<.02	<.01	<.03	--	--	E.011	--	--	--	<.10	<.011
31...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	--	<.5	E.2	<.10	<.011
JUN													
27...	<.01	<.04	<.02	<.01	<.03	<.007	--	<.022	--	--	--	<.10	<.011
JUL													
12...	<.01	<.04	<.02	<.01	<.03	<.007	<1	<.022	--	<.5	E.1	<.10	<.011
AUG													
05...	<.01	<.04	<.02	<.01	<.03	<.007	--	<.022	--	--	--	<.10	<.011

Date	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Picloram, water, fltrd 0.7u GF ug/L (49291)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Propham water fltrd 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)
OCT													
12...	<.05	<.008	<.03	.02	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
18...	--	--	--	<.5	--	--	--	--	--	--	--	--	--
DEC													
29...	<.05	<.008	<.03	.01	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
JAN													
28...	--	--	--	<.5	--	--	--	--	--	--	--	--	--
FEB													
02...	<.05	<.008	--	.01	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.05	<.008	--	.03	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
APR													
14...	<.05	<.008	<.03	.02	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
MAY													
09...	<.05	<.008	<.03	.02	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
31...	--	--	<.03	.01	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
JUN													
27...	<.05	<.008	<.03	.01	<.005	<.006	<.05	<.02	<.02	<.011	<.02	<.030	<.01
JUL													
12...	--	--	<.03	.02	<.005	<.008	<.05	<.02	<.02	<.011	<.02	<.030	<.01
AUG													
05...	<.05	<.008	<.03	.03	<.010	<.010	<.05	<.02	<.02	<.011	<.02	<.030	<.01

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Propoxur, water, fltrd 0.7u GF ug/L (38538)	Pyrene, water, fltrd, ug/L (34470)	Siduron water, fltrd, ug/L (38548)	Simazine, water, fltrd, ug/L (04035)	Sulfometruron, water, fltrd, ug/L (50337)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Terbacil, water, fltrd, ug/L (04032)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	tert-Amyl alcohol water unfltrd ug/L (77073)	tert-Butyl alcohol water unfltrd ug/L (77035)
OCT													
12...	E.004	<.5	<.02	.018	<.038	<.02	--	<.016	<.07	<.02	<.01	--	--
18...	--	<.5	--	--	--	--	--	--	--	--	--	--	--
DEC													
29...	<.008	<.5	<.02	.127	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
JAN													
28...	--	<.5	--	--	--	--	--	--	--	--	--	--	--
FEB													
02...	<.008	<.5	<.02	.491	<.038	<.02	--	<.016	<.07	<.02	E.01	<1.0	<2.00
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	<.008	<.5	<.02	.739	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
APR													
14...	<.008	<.5	E.01	.290	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
MAY													
09...	<.008	--	E.01	.172	<.038	<.02	--	<.016	<.07	<.02	<.01	--	--
31...	<.008	<.5	<.02	.115	<.038	<.02	--	<.016	<.07	<.02	E.01	<1.0	<2.00
JUN													
27...	<.008	--	<.02	.105	<.038	<.02	<.008	<.016	<.07	<.02	M	--	--
JUL													
12...	<.008	M	E.01	.091	<.038	<.02	<.008	<.016	<.07	<.02	E.01	--	--
AUG													
05...	<.008	--	<.02	.058	<.038	<.02	<.008	<.016	<.07	<.02	<.01	--	--

Date	Tetrachloroethene, water, fltrd, ug/L (34476)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Tribromomethane water, fltrd, ug/L (34288)	Tribuphos, water, fltrd, ug/L (61610)	Tributyl phosphate, water, fltrd, ug/L (62089)	Triclopyr, water, fltrd 0.7u GF ug/L (49235)	Triclosan, water, fltrd, ug/L (62090)	Triethyl citrate water, fltrd, ug/L (62091)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Triphenyl phosphate, water, fltrd, ug/L (62092)	Tris(2-butoxyethyl) phosphate, wat flt ug/L (62093)	Tris(2-chloroethyl) phosphate, wat flt ug/L (62087)
OCT													
12...	<.5	--	--	<.5	--	<.5	<.03	<1	<.5	<.009	<.5	<.5	E.2
18...	<.5	--	--	<.5	--	<.5	--	<1	<.5	--	<.5	<.5	<.5
DEC													
29...	<.5	--	--	<.5	--	<.5	<.03	<1	<.5	<.009	<.5	<.5	E.2
JAN													
28...	<.5	--	--	<.5	--	<.5	--	<1	<.5	--	<.5	<.5	E.3
FEB													
02...	E2.9	--	--	<.5	--	<.5	.09	<1	<.5	E.005	<.5	<.5	E.2
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	M	--	--	<.5	--	E.1	.14	<1	M	E.005	M	<.5	E.1
APR													
14...	<.5	--	--	<.5	--	<.5	<.09	<1	<.5	<.009	<.5	<.5	M
MAY													
09...	--	--	--	--	--	--	.08	--	--	<.009	--	--	--
31...	M	--	--	<.5	--	M	<.03	<1	M	<.009	<.5	E.2	E.1
JUN													
27...	--	<.010	<.01	--	<.046	--	<.03	--	--	<.009	--	--	--
JUL													
12...	<.5	<.010	<.01	<.5	<.025	M	<.03	<1	M	<.009	M	E.2	E.1
AUG													
05...	--	<.010	<.01	--	<.020	--	<.03	--	--	<.009	--	--	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tris(di chloro-i-Pr) phos-phate, wat flt ug/L (62088)	1,1,1,2 -Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,1,1- Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2 -Tetra-chloro-ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2- Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,1-Di-chloro-propene water unfltrd ug/L (77168)	1,2,3,4 Tetra-methyl-benzene water unfltrd ug/L (49999)	1,2,3,5 Tetra-methyl-benzene water unfltrd ug/L (50000)	1,2,3- Tri-chloro-benzene water unfltrd ug/L (77613)	1,2,3- Tri-chloro-propane water unfltrd ug/L (77443)
OCT													
12...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
18...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
DEC													
29...	M	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
JAN													
28...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
FEB													
02...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
17...	--	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
MAR													
10...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
APR													
14...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	1,2,3- Tri-methyl-benzene water unfltrd ug/L (77221)	1,2,4- Tri-chloro-benzene water unfltrd ug/L (34551)	1,2,4- Tri-methyl-benzene water unfltrd ug/L (77222)	Dibromo chloro-propane water unfltrd ug/L (82625)	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water unfltrd ug/L (34541)	1,3,5- Tri-methyl-benzene water unfltrd ug/L (77226)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)	1,3-Di-chloro-propane water unfltrd ug/L (77173)	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	2,2-Di-chloro-propane water unfltrd ug/L (77170)
OCT													
12...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
18...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
DEC													
29...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
JAN													
28...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
FEB													
02...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
17...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
MAR													
10...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
APR													
14...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	2-Chloro-toluene water unfltrd ug/L (77275)	2-Ethyl-toluene water unfltrd ug/L (77220)	3-Chloro-propene water unfltrd ug/L (78109)	4-Chloro-toluene water unfltrd ug/L (77277)	4-Iso-propyl-toluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Acrylo-nitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromo-benzene water unfltrd ug/L (81555)	Bromo-chloro-methane water unfltrd ug/L (77297)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Bromo-ethene, water, unfltrd ug/L (50002)	Bromo-methane water unfltrd ug/L (34413)
OCT													
12...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
18...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	E.03	<.1	<.3
DEC													
29...	<.04	<.06	<.50	<.05	<.08	<6	<.8	E.01	<.03	<.12	<.03	<.1	<.3
JAN													
28...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
FEB													
02...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
17...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
MAR													
10...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
APR													
14...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Carbon di-sulfide water unfltrd ug/L (77041)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Chloro-methane water unfltrd ug/L (34418)	cis-1,2-Di-chloro-ethene, water, unfltrd ug/L (77093)	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Di-bromo-methane water unfltrd ug/L (30217)	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Di-chloro-methane water unfltrd ug/L (34423)	Di-ethyl ether, water, unfltrd ug/L (81576)	Diiso-propyl ether, water, unfltrd ug/L (81577)	Ethyl methac-rylate, water, unfltrd ug/L (73570)
OCT													
12...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
18...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
DEC													
29...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
JAN													
28...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
FEB													
02...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
17...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
MAR													
10...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
APR													
14...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	<.04	<.03	<.1	<.2	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Iodo-methane water unfltrd ug/L (77424)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Iso-propyl-benzene water unfltrd ug/L (77223)	Methyl acrylo-nitrile water unfltrd ug/L (81593)	Methyl acryl-ate, water, unfltrd ug/L (49991)	Methyl methac-rylate, water, unfltrd ug/L (81597)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	Naphth-alene, water, unfltrd ug/L (34696)
OCT													
12...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
18...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
DEC													
29...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
JAN													
28...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
FEB													
02...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
17...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
MAR													
10...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
APR													
14...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water unfltrd ug/L (77342)	n-propyl-benzene water unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)	sec-Butyl-benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water unfltrd ug/L (77353)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Tetra-hydro-furan, water, unfltrd ug/L (81607)	Toluene water unfltrd ug/L (34010)
OCT													
12...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	<.06	<1	<.02
18...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	<.06	<1	<.02
DEC													
29...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	<.03	<.06	<1	E.02
JAN													
28...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	E.04	<.06	<1	E.01
FEB													
02...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	E.02	<.06	<1	E.01
17...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	<.03	<.06	<1	E.02
MAR													
10...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	<.03	<.06	<1	<.02
APR													
14...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	E.1	<.06	E.02	<.06	<1	<.02
MAY													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
31...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	<.06	<1	<.02
JUN													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
12...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	<.06	<1	<.02
AUG													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208755215 NEUSE RIVER ABOVE U.S. HIGHWAY 70 AT SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	trans-1,4-Di-chloro-2-butene, wat unf ug/L (73547)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Di-chlor-vos, water fltrd, ug/L (38775)
OCT									
12...	<.03	<.09	<.7	<.10	<.04	<.08	E.03	<.1	<.01
18...	<.03	<.09	<.7	<.10	<.04	<.08	E.07	<.1	--
DEC									
29...	<.03	<.09	<.7	<.10	<.04	<.08	E.03	<.1	<.01
JAN									
28...	<.03	<.09	<.7	<.10	<.04	<.08	E.04	<.1	--
FEB									
02...	<.03	<.09	<.7	<.10	<.04	<.08	E.04	<.1	<.01
17...	<.03	<.09	<.7	<.10	<.04	<.08	E.05	<.1	--
MAR									
10...	<.03	<.09	<.7	<.10	<.04	<.08	E.04	<.1	<.01
APR									
14...	<.03	<.09	<.7	<.10	<.04	<.08	E.04	<.1	<.01
MAY									
09...	--	--	--	--	--	--	--	--	<.01
31...	<.03	<.09	<.7	<.10	<.04	<.08	E.03	<.1	<.01
JUN									
27...	--	--	--	--	--	--	--	--	<.01
JUL									
12...	<.03	<.09	<.7	<.10	<.04	<.08	E.03	<.1	<.01
AUG									
05...	--	--	--	--	--	--	--	--	<.01

Remark codes used in this table:
< -- Less than.
E -- Estimated.
M -- Presence verified but not quantified.

Medium codes used in this table:
9 -- Surface water sample.

02087570 NEUSE RIVER AT SMITHFIELD, NC

LOCATION.--Lat 35°30'45", long 78°20'58", Johnston County, Hydrologic Unit 03020201, on left bank 10 ft downstream from bridge on U.S. Highway 70, at Smithfield, 2.1 mi upstream from Swift Creek, and 178 mi upstream from mouth.

DRAINAGE AREA.--1,206 mi^2.

PERIOD OF RECORD.--October 1959 to September 1990, October 1998 to current year (gage heights only).

GAGE.--Water-stage recorder. Datum of gage is 99.26 ft above NGVD of 1929. Prior to Dec. 21, 1971, nonrecording gage on upstream side of bridge near center of span at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

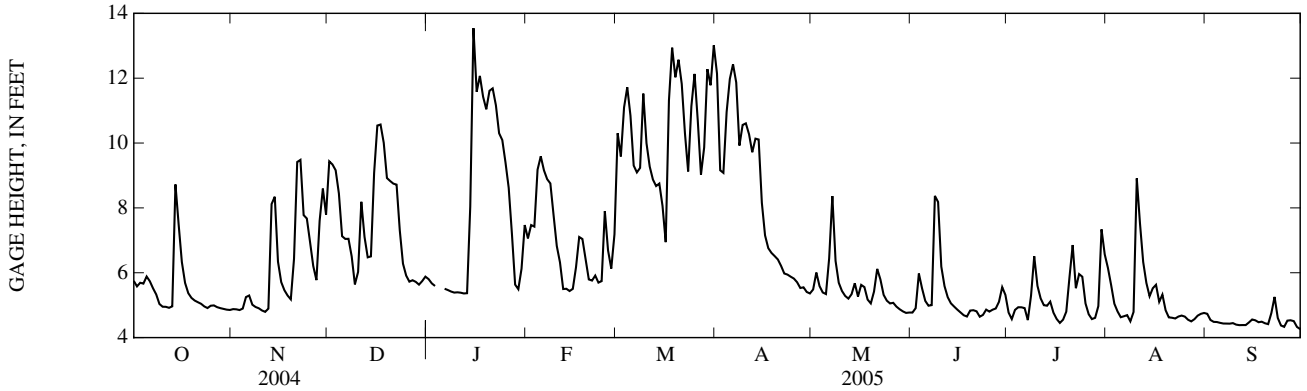
REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 26.72 ft, Sept. 18, 1999; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 14.07 ft, Jan. 15; minimum gage height, 4.22 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.75	4.88	9.43	5.80	7.06	10.30	12.14	5.48	4.77	4.77	6.15	4.73
2	5.58	4.87	9.34	5.67	7.47	9.59	9.16	6.01	4.91	4.57	5.62	4.54
3	5.69	4.85	9.16	5.59	7.42	11.10	9.08	5.59	5.98	4.85	5.04	4.49
4	5.66	4.90	8.44	---	9.18	11.72	10.96	5.39	5.52	4.94	4.81	4.48
5	5.88	5.25	7.13	---	9.59	10.84	11.97	5.34	5.13	4.93	4.63	4.46
6	5.74	5.30	7.04	5.51	9.16	9.31	12.43	6.45	4.98	4.91	4.66	4.43
7	5.52	5.01	7.05	5.47	8.89	9.09	11.87	8.36	5.00	4.54	4.69	4.43
8	5.33	4.94	6.50	5.42	8.75	9.23	9.92	6.37	8.37	5.29	4.50	4.43
9	5.04	4.90	5.64	5.39	7.77	11.52	10.56	5.69	8.18	6.51	4.79	4.45
10	4.95	4.84	6.02	5.40	6.82	9.99	10.61	5.44	6.19	5.60	8.91	4.40
11	4.95	4.79	8.19	5.38	6.32	9.27	10.27	5.28	5.59	5.21	7.52	4.38
12	4.92	4.89	7.11	5.36	5.50	8.87	9.72	5.20	5.25	5.00	6.33	4.39
13	4.96	8.12	6.48	5.37	5.51	8.67	10.14	5.34	5.06	4.98	5.68	4.39
14	8.72	8.34	6.50	8.04	5.44	8.75	10.11	5.68	4.96	5.11	5.28	4.47
15	7.49	6.34	9.08	13.54	5.50	8.06	8.16	5.27	4.86	4.77	5.52	4.56
16	6.33	5.71	10.54	11.58	6.17	6.94	7.15	5.63	4.78	4.57	5.63	4.53
17	5.69	5.46	10.57	12.07	7.10	11.32	6.76	5.56	4.69	4.45	5.10	4.47
18	5.37	5.30	10.01	11.43	7.04	12.94	6.61	5.17	4.65	4.55	5.33	4.49
19	5.22	5.18	8.92	11.04	6.42	12.03	6.51	5.05	4.83	4.80	4.84	4.44
20	5.14	6.43	8.83	11.61	5.79	12.57	6.41	5.42	4.84	5.86	4.62	4.41
21	5.09	9.41	8.75	11.68	5.76	11.82	6.21	6.12	4.81	6.85	4.61	4.76
22	5.04	9.48	8.72	11.16	5.91	10.30	5.98	5.79	4.64	5.52	4.59	5.25
23	4.96	7.78	7.31	10.30	5.70	9.12	5.94	5.32	4.70	5.96	4.65	4.61
24	4.91	7.67	6.28	10.09	5.74	11.13	5.88	5.14	4.86	5.88	4.68	4.37
25	4.98	6.95	5.91	9.40	7.90	12.13	5.82	5.05	4.80	5.05	4.65	4.33
26	4.99	6.21	5.73	8.62	6.69	10.69	5.71	5.07	4.86	4.72	4.55	4.52
27	4.94	5.77	5.77	7.20	6.13	9.02	5.53	4.96	4.90	4.57	4.50	4.53
28	4.91	7.60	5.72	5.63	7.18	9.87	5.55	4.87	5.10	4.61	4.57	4.51
29	4.88	8.60	5.63	5.49	---	12.28	5.41	4.81	5.56	4.97	4.68	4.33
30	4.86	7.79	5.74	6.12	---	11.78	5.36	4.76	5.32	7.34	4.73	4.26
31	4.85	---	5.88	7.47	---	13.01	---	4.77	---	6.57	4.76	---
TOTAL	168.34	187.56	233.42	232.83	193.91	323.26	247.93	170.38	158.09	162.25	160.62	134.84
MEAN	5.43	6.25	7.53	8.03	6.93	10.43	8.26	5.50	5.27	5.23	5.18	4.49
MAX	8.72	9.48	10.57	13.54	9.59	13.01	12.43	8.36	8.37	7.34	8.91	5.25
MIN	4.85	4.79	5.63	5.36	5.44	6.94	5.36	4.76	4.64	4.45	4.50	4.26



353112078205802 TOWN OF SMITHFIELD, NC

LOCATION.--Lat 35°31'12", long 78°20'58", Johnston County, Hydrologic Unit 03020201, town of Smithfield.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--Water years 2004 to current year.

REMARKS.--Station operated as part of NAWQA program from June 2004 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	1,4-Di-chloro-benzene water, fltrd, ug/L (34572)	1-Methyl-naphth-alene, water, fltrd, ug/L (62054)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D water, fltrd, ug/L (39732)
OCT													
14...	1400	$	749	7.6	87	7.7	267	21.3	<.5	<.5	<.09	<.016	<.04
21...	1200	$	750	8.2	92	8.0	252	20.2	M	<.5	--	--	--
JAN													
03...	1230	$	770	10.6	88	7.9	292	7.7	<.5	<.5	<.09	<.016	<.04
FEB													
02...	1115	$	769	12.2	97	8.4	245	5.8	<.5	<.5	--	--	--
07...	1115	$	768	12.1	97	8.4	235	6.4	<.5	<.5	<.09	<.016	.05
22...	1115	$	764	10.5	93	6.7	236	10.2	--	--	--	--	--
MAR													
15...	1100	$	765	11.5	103	7.2	180	10.6	<.5	<.5	<.09	<.016	.09
APR													
20...	1030	$	759	9.7	101	8.5	201	16.9	<.5	<.5	<.09	<.016	.11
MAY													
12...	1100	$	760	8.8	98	8.5	244	20.7	--	--	<.09	<.016	.11
JUN													
03...	1130	$	759	6.7	78	8.6	281	22.4	<.5	<.5	<.09	<.016	E.03
JUL													
01...	1045	$	754	7.5	96	7.8	285	27.5	--	--	<.09	<.016	<.04
15...	1000	$	759	5.9	77	8.3	275	28.7	M	<.5	<.09	<.016	<.04
AUG													
08...	1230	$	--	7.7	--	8.2	276	29.5	--	--	<.09	<.016	<.04

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	2,4-DB water, fltrd 0.7u GF ug/L (38746)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2,6-Di-methyl-naphth-alene, water, fltrd, ug/L (62055)	2-[(2-Ethyl-6methyl phenyl) amino]2 oxoESA ug/L (62850)	2Chloro -2',6-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	Ala-chlor 2nd amide, water, fltrd, ug/L (63781)	Aceto-chlor 3rd amide, water, fltrd, ug/L (63782)	2-Ethyl -6-methyl-aniline water, fltrd, ug/L (61620)	OIET, water, fltrd, ug/L (50355)	2-Methyl-naphth-alene, water, fltrd, ug/L (62056)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)
OCT													
14...	<.02	<.006	<.5	<.02	<.005	<.006	<.08	<.02	<.02	<.004	<.032	<.5	<.004
21...	--	--	<.5	--	--	--	--	--	--	--	--	<.5	--
JAN													
03...	<.02	<.006	<.5	<.02	<.005	<.006	<.08	<.02	<.02	<.004	<.032	<.5	<.004
FEB													
02...	--	--	<.5	--	--	--	--	--	--	--	--	<.5	--
07...	<.02	<.006	<.5	<.02	<.005	<.006	E.02	<.02	<.02	<.004	E.017	<.5	<.004
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	<.006	<.5	<.02	<.005	<.007	E.03	<.02	<.02	<.004	E.012	<.5	<.004
APR													
20...	<.02	<.006	<.5	<.02	<.005	E.007	E.03	<.02	<.02	<.004	<.032	<.5	<.004
MAY													
12...	<.02	<.006	--	<.02	<.005	E.005	E.01	<.02	<.02	<.004	<.032	--	--
JUN													
03...	<.02	<.006	<.5	<.02	<.005	<.006	E.01	<.02	<.02	<.004	<.032	<.5	<.004
JUL													
01...	<.02	<.006	--	<.02	<.005	E.006	<.08	<.02	<.02	<.004	<.032	--	<.004
15...	<.02	<.006	<.5	<.02	<.005	E.005	<.08	<.02	<.02	<.004	<.032	M	<.004
AUG													
08...	<.02	<.006	--	<.02	<.005	E.005	E.01	<.02	<.02	<.004	E.010	--	<.004

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	3,5-Dichloroaniline water, fltrd, ug/L (61627)	3-beta-Coprostanol, water, fltrd, ug/L (62057)	3-Hydroxycarbofuran, wat flt 0.7u GF ug/L (49308)	3-Ketocarbofuran, water, fltrd, ug/L (50295)	3-Methyl-1H-indole, water, fltrd, ug/L (62058)	3-tert-Butyl-4-hydroxyanisole wat flt ug/L (62059)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)	4-Cumylphenol, water, fltrd, ug/L (62060)	4-Octylphenol, water, fltrd, ug/L (62061)	4-Nonylphenol, water, fltrd, ug/L (62085)	4-tert-Octylphenol, water, fltrd, ug/L (62062)	5-Methyl-1H-benzotriazole, wat flt ug/L (62063)	9,10-Anthraquinone water, fltrd, ug/L (62066)
OCT													
14...	--	<2	<.008	<.02	<1	<5	<.006	<1	<1	<5	<1	<2	<.5
21...	--	M	--	--	<1	<5	--	<1	<1	E2	<1	<2	<.5
JAN													
03...	--	<2	<.008	<.02	<1	<5	<.006	<1	<1	M	<1	<2	<.5
FEB													
02...	--	<2	--	--	<1	<5	--	<1	<1	E2	<1	<2	<.5
07...	--	<2	<.008	<.02	<1	<5	<.006	<1	<1	E2	<1	<2	<.5
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	--	<2	<.008	<.02	<1	<5	<.006	<1	<1	E3	<1	<2	<.5
APR													
20...	--	M	<.008	<.02	<1	<5	<.006	<1	<1	E2	<1	<2	<.5
MAY													
12...	--	--	<.008	<.02	--	--	<.006	--	--	--	--	--	--
JUN													
03...	<.004	<2	<.008	<.02	<1	<5	<.006	<1	<1	E2	<1	<2	<.5
JUL													
01...	<.004	--	<.008	<.25	--	--	<.006	--	--	--	--	--	--
15...	<.004	<2	<.008	<.02	<1	<5	<.006	<1	M	E4	<1	<2	<.5
AUG													
08...	<.004	--	<.008	<.02	--	--	<.006	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Acetochlor ESA, water, fltrd 0.7u GF ug/L (61029)	Acetochlor OA, water, fltrd 0.7u GF ug/L (61030)	Acetochlor SAA, water, fltrd, ug/L (62847)	Acetochlor, water, fltrd, ug/L (49260)	Acetophenone water, fltrd, ug/L (62064)	AHTN, water, fltrd, ug/L (62065)	Acifluorfen, water, fltrd 0.7u GF ug/L (49315)	Alachlor ESA SA, water, fltrd, ug/L (62849)	Alachlor ESA, water, fltrd 0.7u GF ug/L (50009)	Alachlor OA, water, fltrd 0.7u GF ug/L (61031)	Alachlor SAA, water, fltrd, ug/L (62848)	Alachlor, water, fltrd, ug/L (46342)	Aldicarb sulfone water, fltrd 0.7u GF ug/L (49313)
OCT													
14...	<.02	<.02	<.02	<.006	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.005	<.02
21...	--	--	--	--	<.5	E.1	--	--	--	--	--	--	--
JAN													
03...	<.02	<.02	<.02	<.006	E.1	E.1	<.028	<.02	<.02	<.02	<.02	<.005	<.02
FEB													
02...	--	--	--	--	<.5	E.1	--	--	--	--	--	--	--
07...	<.02	<.02	<.02	<.006	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.005	<.02
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	<.02	<.02	<.02	<.5	E.1	<.028	<.02	.02	<.02	<.02	<.02	<.02
APR													
20...	<.02	<.02	<.02	<.02	<.5	E.1	<.028	<.02	<.02	<.02	<.02	<.02	<.02
MAY													
12...	<.02	<.02	<.02	<.02	--	--	<.028	<.02	<.02	<.02	<.02	<.02	<.02
JUN													
03...	<.02	<.02	<.02	<.006	E.1	E.1	<.028	<.02	<.02	<.02	<.02	<.005	<.02
JUL													
01...	<.02	<.02	<.02	<.02	--	--	<.028	<.02	<.02	<.02	<.02	<.02	<.02
15...	<.02	<.02	<.02	<.02	<.5	E.3	<.028	<.02	<.02	<.02	<.02	<.02	<.02
AUG													
08...	<.02	<.02	<.02	<.006	--	--	<.028	<.02	<.02	<.02	<.02	<.005	<.02

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Aldicarb sulfoxide, wat flt 0.7u GF ug/L (49314)	Aldicarb, water, fltrd 0.7u GF ug/L (49312)	alpha-Endosulfan, water, fltrd, ug/L (34362)	Anthracene, water, fltrd, ug/L (34221)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Bendiocarb, water, fltrd, ug/L (50299)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensulfuron, water, fltrd, ug/L (61693)	Bentazon, water, fltrd 0.7u GF ug/L (38711)	Benzo[a]pyrene, water, fltrd, ug/L (34248)
OCT													
14...	<.022	<.04	--	<.5	.012	<.07	<.050	<.02	<.010	<.022	<.02	E.01	<.5
21...	--	--	--	<.5	--	--	--	--	--	--	--	--	<.5
JAN													
03...	<.022	<.04	--	<.5	.008	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
FEB													
02...	--	--	--	<.5	--	--	--	--	--	--	--	--	<.5
07...	<.022	<.04	--	<.5	.009	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.022	<.04	--	<.5	.009	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
APR													
20...	<.022	<.04	--	<.5	.014	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
MAY													
12...	<.022	<.04	--	--	.013	<.07	<.050	<.02	<.010	<.022	<.02	E.01	--
JUN													
03...	<.022	<.04	<.005	<.5	.011	<.07	<.050	<.02	<.010	<.022	<.02	<.01	<.5
JUL													
01...	<.022	<.04	<.005	--	E.008	<.07	<.050	<.02	<.010	<.022	<.02	<.01	--
15...	<.022	<.04	<.005	<.5	.009	<.07	<.050	E.02	<.010	<.022	<.02	E.01	E.3
AUG													
08...	<.022	<.04	<.005	--	.008	<.07	<.050	<.02	<.010	<.022	<.02	<.01	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Benzophenone water, fltrd, ug/L (62067)	beta-Sitosterol, water, fltrd, ug/L (62068)	beta-Stigmastanol, water, fltrd, ug/L (62086)	Bisphenol A, water, fltrd, ug/L (62069)	Bromacil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd 0.7u GF ug/L (49311)	Caffeine, water, fltrd, ug/L (50305)	Camphor water, fltrd, ug/L (62070)	Carbaryl, water, fltrd 0.7u GF ug/L (49310)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbazole, water, fltrd, ug/L (62071)	Carbofuran, water, fltrd 0.7u GF ug/L (49309)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)
OCT													
14...	<.5	<2	<2	<1	<.02	<.03	.037	<.5	<.02	<.041	<.5	<.016	--
21...	E.1	<2	<2	M	<.5	--	E.1	<.5	--	<1	<.5	--	--
JAN													
03...	M	<2	<2	M	<.02	<.03	.028	<.5	<.02	<.041	<.5	<.016	--
FEB													
02...	M	<2	<2	M	<.5	--	M	<.5	--	<1	<.5	--	--
07...	E.1	<2	<2	M	<.02	<.03	.029	<.5	<.02	<.041	<.5	<.016	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	E.1	<2	<2	<1	<.02	<.03	.025	<.5	<.02	<.041	<.5	<.016	--
APR													
20...	E.1	M	M	<1	<.02	<.03	.019	<.5	<.02	E.009	<.5	<.016	--
MAY													
12...	--	--	--	--	<.02	<.03	E.022	--	<.02	<.041	--	<.016	--
JUN													
03...	E.1	<2	<2	<1	<.02	<.03	<.018	<.5	<.02	<.041	<.5	<.016	<.020
JUL													
01...	--	--	--	--	<.02	<.03	<.018	--	<.02	<.041	--	<.016	<.020
15...	E.1	<2	E2	<1	<.02	<.03	.070	<.5	<.02	E.006	<.5	<.016	<.020
AUG													
08...	--	--	--	--	<.02	<.03	<.018	--	<.02	<.041	--	<.016	<.020

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Chlor-amben methyl ester, water, fltrd, ug/L (61188)	Chlori-muron, water, fltrd, ug/L (50306)	Chloro-di-amino-s-tri-azine, wat flt ug/L (04039)	Chloro-thalo-nil, water, fltrd 0.7u GF ug/L (49306)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)	Choles-terol, water, fltrd, ug/L (62072)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	cis-Propi-cona-zole, water, fltrd, ug/L (79846)	Clopyr-alid, water, fltrd 0.7u GF ug/L (49305)	Cot-inine, water, fltrd, ug/L (62005)	Cyana-zine, water, fltrd, ug/L (04041)	Cyclo-ate, water, fltrd, ug/L (04031)
OCT													
14...	<.02	<.032	<.04	<.04	<.06	<.005	<2	<.006	--	<.02	<1.00	--	<.01
21...	--	--	--	--	--	<.5	M	--	--	--	<1.00	--	--
JAN													
03...	<.02	<.032	<.04	--	<.06	<.005	<2	<.006	--	<.02	E.018	--	<.01
FEB													
02...	--	--	--	--	--	<.5	<2	--	--	--	<1.00	--	--
07...	<.02	<.032	<.04	<.04	<.06	<.005	M	<.006	--	<.03	<1.00	--	<.01
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.02	<.032	<.04	<.04	<.06	<.005	<2	<.006	--	<.02	<1.00	--	<.01
APR													
20...	<.02	<.032	<.04	<.04	<.06	<.005	M	<.006	--	<.02	<1.00	--	<.01
MAY													
12...	<.02	<.032	<.04	<.04	<.06	<.005	--	<.006	--	<.02	--	--	<.01
JUN													
03...	<.02	<.032	<.04	<.04	<.06	<.005	<2	<.006	<.008	<.02	<1.00	<.018	<.01
JUL													
01...	<.02	<.032	<.04	<.04	<.06	<.005	--	<.006	<.008	<.02	--	<.018	<.01
15...	<.02	<.032	<.04	<.04	<.06	<.005	<2	<.006	<.008	<.02	<1.00	<.018	<.01
AUG													
08...	<.02	<.032	<.02	<.04	<.06	<.005	--	<.006	<.008	<.02	--	<.018	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Cyflu-thrin, water, fltrd, ug/L (61585)	lambda-Cyhalo-thrin, water, fltrd, ug/L (61595)	Cyper-methrin water, fltrd, ug/L (61586)	Dacthal mono-acid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water fltrd 0.7u GF ug/L (82682)	De-chloro-aceto-chlor, water, fltrd, ug/L (63778)	De-chloro-ala-chlor, water, fltrd, ug/L (63777)	De-chloro-dimeth-enamid, water, fltrd, ug/L (63779)	De-chloro-metola-chlor, water, fltrd, ug/L (63780)	DEET, water, fltrd, ug/L (62082)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)
OCT													
14...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	<.5	E.007	<.01	<.005
21...	--	--	--	--	--	--	--	--	--	E.1	--	--	<.5
JAN													
03...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	M	<.012	<.01	<.005
FEB													
02...	--	--	--	--	--	--	--	--	--	E.1	--	--	<.5
07...	<.008	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	M	<.012	<.01	<.005
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	<.012	<.01	<.005
APR													
20...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	<.5	E.005	<.01	<.005
MAY													
12...	<.027	--	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.004	<.01	<.005
JUN													
03...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	M	E.004	--	<.005
JUL													
01...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.005	--	<.005
15...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	E.1	E.004	--	<.005
AUG													
08...	<.027	<.009	<.009	<.03	<.003	<.02	<.02	<.02	<.02	--	E.005	--	<.005

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Dicamba water fltrd 0.7u GF ug/L (38442)	Dichlorprop, water, fltrd 0.7u GF ug/L (49302)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Diethoxynonylphenol, water, fltrd, ug/L (62083)	Diethoxyoctylphenol, water, fltrd ug/L (61705)	Dimethenamid ESA, water, fltrd, ug/L (61951)	Dimethenamid OA, water, fltrd, ug/L (62482)	Dimethenamid water, fltrd, ug/L (61588)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Dinoseb water, fltrd 0.7u GF ug/L (49301)	Diphenamid, water, fltrd, ug/L (04033)	Disulfoton sulfone water, fltrd, ug/L (61640)
OCT													
14...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
21...	--	--	--	--	E1	<1	--	--	--	--	--	--	--
JAN													
03...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
FEB													
02...	--	--	--	--	E2	<1	--	--	--	--	--	--	--
07...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
APR													
20...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	--
MAY													
12...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	--
JUN													
03...	<.04	<.03	<.08	<.009	<5	<1	<.02	<.02	<.02	<.006	<.04	<.01	<.01
JUL													
01...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	<.01
15...	<.04	<.03	<.08	<.009	E6	M	<.02	<.02	<.02	<.006	E.01	<.01	<.01
AUG													
08...	<.04	<.03	<.08	<.009	--	--	<.02	<.02	<.02	<.006	<.04	<.01	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Disulfoton, water, fltrd 0.7u GF ug/L (82677)	Diuron, water, fltrd 0.7u GF ug/L (49300)	D-Limonene, water, fltrd, ug/L (62073)	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Ethoxyoctylphenol, water, fltrd ug/L (61706)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fenuron water, fltrd 0.7u GF ug/L (49297)
OCT													
14...	--	E.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
21...	--	--	<.5	--	--	--	--	--	<1	--	--	--	--
JAN													
03...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
FEB													
02...	--	--	<.5	--	--	--	--	--	<1	--	--	--	--
07...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
APR													
20...	--	<.01	<.5	--	--	<.0020	<.004	--	<1	<.049	<.04	<.03	<.02
MAY													
12...	--	.01	--	--	--	<.0020	<.004	--	--	<.049	<.04	<.03	<.02
JUN													
03...	<.02	<.01	<.5	<.014	<.004	<.002	<.004	<.005	<1	<.049	<.04	<.03	<.02
JUL													
01...	<.02	<.01	--	<.014	<.004	<.002	<.004	<.005	--	<.049	<.04	<.03	<.02
15...	<.02	<.01	E.1	<.014	<.004	<.002	<.004	<.005	M	<.049	<.04	<.03	<.02
AUG													
08...	<.02	E.01	--	<.014	<.004	<.002	<.004	<.005	--	<.049	<.04	<.03	<.03

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Desulfinyl-fipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flufenacet ESA, water, fltrd, ug/L (61952)	Flufenacet OA, water, fltrd, ug/L (62483)	Flufenacet, water, fltrd, ug/L (62481)	Flumetsulam, water, fltrd, ug/L (61694)	Fluometuron water fltrd 0.7u GF ug/L (38811)	Fluoranthene water, fltrd, ug/L (34377)	Fonofos oxon, water, fltrd, ug/L (61649)	Fonofos water, fltrd, ug/L (04095)	HHCB, water, fltrd, ug/L (62075)
OCT													
14...	<.029	E.007	<.024	<.016	<.02	<.02	<.02	<.04	<.02	<.5	<.003	<.003	<.5
21...	--	--	--	--	--	--	--	--	--	<.5	--	--	M
JAN													
03...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.04	<.02	<.5	<.003	<.003	M
FEB													
02...	--	--	--	--	--	--	--	--	--	<.5	--	--	<.5
07...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.04	E.01	<.5	<.003	<.003	<.5
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.029	<.013	<.024	<.016	<.02	<.02	<.02	<.04	M	<.5	--	<.003	M
APR													
20...	<.029	E.006	<.024	<.016	<.02	<.02	<.02	<.04	<.02	<.5	--	<.003	<.5
MAY													
12...	<.029	E.005	<.024	<.016	<.02	<.02	<.02	<.04	M	--	--	<.003	--
JUN													
03...	E.006	<.013	<.024	<.016	<.02	<.02	<.02	<.04	<.02	<.5	--	<.003	M
JUL													
01...	E.006	E.006	<.024	<.016	<.02	<.02	<.02	<.04	<.02	--	--	<.003	--
15...	E.004	E.005	<.024	<.016	<.02	<.02	<.02	<.04	<.02	M	--	<.003	E.3
AUG													
08...	E.006	E.006	<.024	<.016	<.02	<.02	<.02	E.05	<.02	--	--	<.003	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Hexazinone, water, fltrd, ug/L (04025)	Hydroxyacetochlor, water, fltrd, ug/L (63784)	Hydroxyalachlor, water, fltrd, ug/L (63783)	Hydroxydimethenamid, water, fltrd, ug/L (64045)	Hydroxymetolachlor, water, fltrd, ug/L (63785)	Imazaquin, water, fltrd, ug/L (50356)	Imazethapyr, water, fltrd, ug/L (50407)	Imidacloprid water, fltrd, ug/L (61695)	Indole, water, fltrd, ug/L (62076)	Iprodione, water, fltrd, ug/L (61593)	Isoborneol, water, fltrd, ug/L (62077)	Isofenphos, water, fltrd, ug/L (61594)	Isophorone water, fltrd, ug/L (34409)
OCT													
14...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.387	<.5	<.003	<.5
21...	--	--	--	--	--	--	--	--	<.5	--	<.5	--	M
JAN													
03...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.387	<.5	<.003	<.5
FEB													
02...	--	--	--	--	--	--	--	--	<.5	--	<.5	--	<.5
07...	<.013	<.02	<.02	<.02	<.02	<.05	<.04	<.021	<.5	<.387	<.5	<.003	<.5
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	M
APR													
20...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	<.5
MAY													
12...	.021	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--
JUN													
03...	E.008	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	M
JUL													
01...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--
15...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	<.5	<.538	<.5	<.003	<.5
AUG													
08...	<.013	<.02	<.02	<.02	<.02	<.04	<.04	<.020	--	<.538	--	<.003	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Isopropylbenzene water, fltrd, ug/L (62078)	Isoquinoline, water, fltrd, ug/L (62079)	Linuron water fltrd 0.7u GF ug/L (38478)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)	Menthol water, fltrd, ug/L (62080)	Metalaxyl, water, fltrd, ug/L (50359)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methiocarb, water, fltrd 0.7u GF ug/L (38501)	Methomyl, water, fltrd 0.7u GF ug/L (49296)
OCT													
14...	<.5	<.5	<.01	<.030	<.027	<.03	<.01	<.5	M	<.100	<.006	<.010	<.020
21...	<.5	<.5	--	--	--	--	--	M	<.5	--	--	--	--
JAN													
03...	M	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
FEB													
02...	M	<.5	--	--	--	--	--	<.5	<.5	--	--	--	--
07...	M	<.5	<.01	<.030	<.027	E.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.5	<.5	<.01	<.030	<.027	E.07	<.01	<.5	<.01	<.005	<.006	<.010	<.020
APR													
20...	<.5	<.5	<.01	<.030	<.027	E.02	<.01	<.5	<.01	<.005	<.006	<.010	<.020
MAY													
12...	--	--	<.01	<.030	<.027	<.03	<.01	--	<.01	<.005	<.006	<.010	<.020
JUN													
03...	M	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
JUL													
01...	--	--	<.01	E.010	<.027	<.03	<.01	--	<.01	<.030	<.006	<.010	<.020
15...	E.1	<.5	<.01	<.030	<.027	<.03	<.01	<.5	<.01	<.005	<.006	<.010	<.020
AUG													
08...	--	--	<.01	<.030	<.027	<.03	<.01	--	E.01	<.025	<.006	<.010	<.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Methyl acetate water unfltrd ug/L (77032)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Methyl salicylate, water, fltrd, ug/L (62081)	Metolachlor ESA, water, fltrd 0.7u GF ug/L (61043)	Metolachlor OA, water, fltrd 0.7u GF ug/L (61044)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Metsulfuron, water, fltrd, ug/L (61697)	Molinate, water, fltrd 0.7u GF ug/L (82671)	Myclobutanil water, fltrd, ug/L (61599)	N-(4-Chlorophenyl) -N'-methylurea, ug/L (61692)	Naphthalene, water, fltrd, ug/L (34443)
OCT													
14...	--	<.03	<.015	<.5	.03	.02	E.007	<.006	<.03	--	<.008	<.04	<.5
21...	--	--	--	M	--	--	M	--	--	--	--	--	<.5
JAN													
03...	<1.0	<.03	<.015	<.5	<.02	<.02	<.010	<.006	<.03	--	<.008	<.04	E.3
FEB													
02...	--	--	--	M	--	--	<.5	--	--	--	--	--	E.1
07...	<1.0	<.03	<.015	M	.02	<.02	<.006	<.006	<.03	--	<.008	<.04	E.2
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<1.0	<.03	<.015	<.5	.05	<.02	<.02	<.006	<.03	--	<.008	<.04	E.1
APR													
20...	<1.0	<.03	<.015	<.5	<.02	<.02	<.02	<.006	<.03	--	<.008	<.04	E.3
MAY													
12...	--	<.03	<.015	--	<.02	<.02	<.02	<.006	<.03	--	<.008	<.04	--
JUN													
03...	<1.0	<.03	<.015	<.5	<.02	<.02	.014	<.006	<.03	<.003	<.060	<.04	E.1
JUL													
01...	--	<.03	<.015	--	<.02	.03	.02	<.006	<.03	<.003	E.007	<.04	--
15...	--	<.03	<.015	<.5	.02	.02	.02	<.006	<.03	<.003	<.008	<.04	E.2
AUG													
08...	--	<.03	<.015	--	<.02	<.02	E.005	<.006	<.03	<.003	E.008	<.04	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Neburon water, fltrd 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, ug/L (50364)	Norflurazon, water, fltrd 0.7u GF ug/L (49293)	Oryzalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	Oxyfluorfen, water, fltrd, ug/L (61600)	p-Cresol, water, fltrd, ug/L (62084)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Pentachlorophenol, water, fltrd, ug/L (34459)	Phenanthrene, water, fltrd, ug/L (34462)	Phenol, water, fltrd, ug/L (34466)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)
OCT													
14...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	<2	<.5	<.5	<.10	<.011
21...	--	--	--	--	--	--	<1	--	<2	<.5	E.1	--	--
JAN													
03...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	<2	<.5	<.5	<.10	<.011
FEB													
02...	--	--	--	--	--	--	<1	--	<2	M	<.5	--	--
07...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	<2	<.5	E.1	<.10	<.011
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.01	<.04	<.02	<.01	<.03	--	M	<.022	<2	<.5	E.3	<.10	<.011
APR													
20...	<.01	<.04	<.02	<.01	<.03	--	<1	<.022	--	<.5	E.1	<.10	<.011
MAY													
12...	<.01	<.04	<.02	<.01	<.03	--	--	<.022	--	--	--	<.10	<.011
JUN													
03...	<.01	<.04	<.02	<.01	<.03	<.007	<1	<.022	<2	<.5	E.3	<.10	<.011
JUL													
01...	<.01	<.04	<.02	<.01	<.03	<.007	--	<.022	--	--	--	<.10	<.011
15...	<.01	<.04	<.02	<.01	<.03	<.007	M	<.022	<2	<.5	3.8	<.10	<.011
AUG													
08...	<.01	<.04	<.02	<.01	<.03	<.007	--	<.022	--	--	--	<.10	<.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Picloram, water, fltrd 0.7u GF ug/L (49291)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propachlor ESA, water, fltrd 0.7u GF ug/L (62766)	Propachlor OA, water, fltrd 0.7u GF ug/L (62767)	Propachlor, water, fltrd, ug/L (04024)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Propham water fltrd 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)
OCT													
14...	<.05	<.008	<.03	.02	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
21...	--	--	--	M	--	--	--	--	--	--	--	--	--
JAN													
03...	<.05	<.008	<.03	<.01	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
FEB													
02...	--	--	--	<.5	--	--	--	--	--	--	--	--	--
07...	<.05	<.008	<.03	.01	<.005	<.004	<.05	<.02	--	--	--	<.030	<.01
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.05	<.008	<.03	<.01	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
APR													
20...	--	<.008	<.03	.01	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
MAY													
12...	<.05	<.008	<.03	.01	<.005	<.004	<.05	<.02	<.02	--	--	<.030	<.01
JUN													
03...	--	--	<.03	<.01	<.005	<.004	<.05	<.02	<.02	<.011	<.02	<.030	<.01
JUL													
01...	--	--	<.03	.01	<.005	E.006	<.05	<.02	<.02	<.011	<.02	<.030	<.01
15...	<.05	<.008	<.03	.01	<.005	<.004	<.05	<.02	<.02	<.011	<.02	<.030	<.01
AUG													
08...	--	--	<.03	<.01	<.005	<.004	<.05	<.02	<.02	<.011	<.02	<.030	<.01

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Propoxur, water, fltrd 0.7u GF ug/L (38538)	Pyrene, water, fltrd, ug/L (34470)	Siduron water, fltrd, ug/L (38548)	Simazine, water, fltrd, ug/L (04035)	Sulfometruron, water, fltrd, ug/L (50337)	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Terbacil, water, fltrd, ug/L (04032)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	tert-Amyl alcohol water unfltrd ug/L (77073)	tert-Butyl alcohol water unfltrd ug/L (77035)
OCT													
14...	<.008	<.5	<.02	.017	<.038	<.02	--	<.016	<.06	<.02	<.01	--	--
21...	--	<.5	--	--	--	--	--	--	--	--	--	--	--
JAN													
03...	<.008	<.5	<.02	.069	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
FEB													
02...	--	<.5	--	--	--	--	--	--	--	--	--	--	--
07...	<.008	<.5	<.02	.324	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	<.008	<.5	<.02	.457	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
APR													
20...	<.008	<.5	<.02	.183	<.038	<.02	--	<.016	<.07	<.02	<.01	<1.0	<2.00
MAY													
12...	<.008	--	<.02	.101	<.038	<.02	--	<.016	<.07	<.02	<.01	--	--
JUN													
03...	<.008	<.5	<.02	.070	<.038	<.02	<.008	<.016	<.07	<.02	<.01	<1.0	<2.00
JUL													
01...	<.008	--	<.02	.060	<.038	<.02	<.008	<.016	<.07	<.02	E.01	--	--
15...	<.008	M	<.02	.055	<.038	<.02	<.008	<.016	<.07	<.02	<.01	--	--
AUG													
08...	<.008	--	<.02	.041	<.038	<.02	<.008	<.016	<.07	<.02	M	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tetrachloroethene, water, fltrd, ug/L (34476)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Tribromomethane water, fltrd, ug/L (34288)	Tribuphos, water, fltrd, ug/L (61610)	Tributyl phosphate, water, fltrd, ug/L (62089)	Triclopyr, water, fltrd 0.7u GF ug/L (49235)	Triclosan, water, fltrd, ug/L (62090)	Triethyl citrate water, fltrd, ug/L (62091)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Triphenyl phosphate, water, fltrd, ug/L (62092)	Tris(2-butoxyethyl) phosphate, wat flt ug/L (62093)	Tris(2-chloroethyl) phosphate, wat flt ug/L (62087)
OCT													
14...	<.5	--	--	E.3	--	<.5	<.03	<1	<.5	<.009	<.5	<.5	E.1
21...	M	--	--	E.2	--	M	--	<1	<.5	--	<.5	<.5	E.1
JAN													
03...	<.5	--	--	E.1	--	M	<.03	<1	M	<.009	M	E.1	E.2
FEB													
02...	<.5	--	--	E.1	--	M	--	<1	<.5	--	<.5	<.5	E.2
07...	<.5	--	--	E.1	--	M	E.07	<1	<.5	<.009	<.5	<.5	E.2
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
15...	M	--	--	E.1	--	M	<.12	<1	M	<.009	<.5	E.2	E.2
APR													
20...	<.5	--	--	E.1	--	<.5	.07	<1	<.5	<.009	<.5	<.5	<.5
MAY													
12...	--	--	--	--	--	--	<.03	--	--	<.009	--	--	--
JUN													
03...	M	<.010	<.01	E.3	<.004	M	<.03	<1	M	<.009	<.5	<.5	E.1
JUL													
01...	--	<.010	<.01	--	<.030	--	<.03	--	--	<.009	--	--	--
15...	<.5	<.010	<.01	E.2	<.004	E.3	<.03	M	<.5	<.009	E.2	E.5	<.5
AUG													
08...	--	<.010	<.01	--	<.004	--	<.03	--	--	<.009	--	--	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tris(di chloro-i-Pr) phos-phate, wat flt ug/L (62088)	1,1,1,2 -Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,1,1- Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2,2 -Tetra-chloro-ethane, water, unfltrd ug/L (34516)	CFC-113 water unfltrd ug/L (77652)	1,1,2- Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,1-Di-chloro-propene water unfltrd ug/L (77168)	1,2,3,4 Tetra-methyl-benzene water unfltrd ug/L (49999)	1,2,3,5 Tetra-methyl-benzene water unfltrd ug/L (50000)	1,2,3- Tri-chloro-benzene water unfltrd ug/L (77613)	1,2,3- Tri-chloro-propane water unfltrd ug/L (77443)
OCT													
14...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
21...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
JAN													
03...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	E.1	E.1	<.2	<.18
FEB													
02...	M	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	M	<.2	<.18
07...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	M	<.2	<.18
22...	--	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	E.1	<.2	<.18
MAR													
15...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	<.1	<.2	<.18
APR													
20...	<.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	E.1	.1	<.2	<.18
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	E.1	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	E.1	<.2	<.18
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	5.5	<.03	<.03	<.08	<.04	<.04	<.04	<.02	<.03	<.1	E.1	<.2	<.18
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	1,2,3- Tri-methyl-benzene water unfltrd ug/L (77221)	1,2,4- Tri-chloro-benzene water unfltrd ug/L (34551)	1,2,4- Tri-methyl-benzene water unfltrd ug/L (77222)	Dibromo chloro-propane water unfltrd ug/L (82625)	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	1,2-Di-chloro-propane water unfltrd ug/L (34541)	1,3,5- Tri-methyl-benzene water unfltrd ug/L (77226)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)	1,3-Di-chloro-propane water unfltrd ug/L (77173)	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	2,2-Di-chloro-propane water unfltrd ug/L (77170)
OCT													
14...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
21...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
JAN													
03...	E.1	<.1	E.04	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
FEB													
02...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
07...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
22...	M	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
MAR													
15...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
APR													
20...	M	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	M	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.1	<.1	<.06	<.5	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	2-Chlorotoluene water unfltrd ug/L (77275)	2-Ethyltoluene water unfltrd ug/L (77220)	3-Chloropropene water unfltrd ug/L (78109)	4-Chlorotoluene water unfltrd ug/L (77277)	4-Isopropyltoluene water unfltrd ug/L (77356)	Acetone water unfltrd ug/L (81552)	Acrylonitrile water unfltrd ug/L (34215)	Benzene water unfltrd ug/L (34030)	Bromobenzene water unfltrd ug/L (81555)	Bromochloromethane water unfltrd ug/L (77297)	Bromodichloromethane water unfltrd ug/L (32101)	Bromoethene, water, unfltrd ug/L (50002)	Bromomethane water unfltrd ug/L (34413)
OCT													
14...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	16.1	<.1	<.3
21...	<.04	<.06	<.50	<.05	<.08	E2	<.8	<.02	<.03	<.12	13.3	<.1	<.3
JAN													
03...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	8.99	<.1	<.3
FEB													
02...	<.04	<.06	<.50	<.05	<.08	E1	<.8	<.02	<.03	<.12	8.73	<.1	<.3
07...	<.04	<.06	<.50	<.05	<.08	E2	<.8	<.02	<.03	<.12	9.76	<.1	<.3
22...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	13.4	<.1	<.3
MAR													
15...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	10.5	<.1	<.3
APR													
20...	<.04	<.06	<.50	<.05	<.08	E2	<.8	<.02	<.03	<.12	11.9	<.1	<.3
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	<.04	<.06	<.50	<.05	<.08	<6	<.8	<.02	<.03	<.12	14.4	<.1	<.3
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.04	<.06	<.50	<.05	<.08	E3	<.8	<.02	<.03	<.12	24.0	<.1	<.3
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Carbon disulfide water unfltrd ug/L (77041)	Chlorobenzene water unfltrd ug/L (34301)	Chloroethane, water, unfltrd ug/L (34311)	Chloromethane water unfltrd ug/L (34418)	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	cis-1,3-Dichloropropene water unfltrd ug/L (34704)	Dibromochloromethane water unfltrd ug/L (32105)	Dibromomethane water unfltrd ug/L (30217)	Dichlorodifluoromethane wat unf ug/L (34668)	Dichloromethane water unfltrd ug/L (34423)	Diethyl ether, water, unfltrd ug/L (81576)	Diisopropyl ether, water, unfltrd ug/L (81577)	Ethyl methacrylate, water, unfltrd ug/L (73570)
OCT													
14...	<.04	<.03	<.1	<.2	<.02	<.05	5.4	<.05	<.18	<.1	<.1	<.10	<.2
21...	<.04	<.03	<.1	<.2	<.02	<.05	4.0	<.05	<.18	<.1	<.1	<.10	<.2
JAN													
03...	<.04	<.03	<.1	<.2	<.02	<.05	2.8	<.05	<.18	<.1	<.1	<.10	<.2
FEB													
02...	<.04	<.03	<.1	<.2	<.02	<.05	2.3	<.05	<.18	<.1	<.1	<.10	<.2
07...	<.04	<.03	<.1	<.2	<.02	<.05	2.7	<.05	<.18	<.1	<.1	<.10	<.2
22...	<.04	<.03	<.1	<.2	<.02	<.05	2.2	<.05	<.18	<.1	<.1	<.10	<.2
MAR													
15...	<.04	<.03	<.1	<.2	<.02	<.05	2.1	<.05	<.18	<.1	<.1	<.10	<.2
APR													
20...	<.04	<.03	<.1	<.2	<.02	<.05	2.8	<.05	<.18	<.1	<.1	<.10	<.2
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	<.04	<.03	<.1	<.2	<.02	<.05	7.6	<.05	<.18	<.1	<.1	<.10	<.2
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.04	<.03	<.1	M	<.02	<.05	6.1	<.05	<.18	<.1	<.1	<.10	<.2
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Iodo-methane water unfltrd ug/L (77424)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Iso-propyl-benzene water unfltrd ug/L (77223)	Methyl acrylo-nitrile water unfltrd ug/L (81593)	Methyl acryl-ate, water, unfltrd ug/L (49991)	Methyl methac-rylate, water, unfltrd ug/L (81597)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	Naphth-alene, water, unfltrd ug/L (34696)
OCT													
14...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	E.03	<.5
21...	<2.0	<.03	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5
JAN													
03...	<2.0	2.09	<.1	<.1	<.50	<.4	E.04	<.4	<1.0	<.2	<.04	8.65	E.4
FEB													
02...	<2.0	.61	<.1	M	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	2.77	<.5
07...	<2.0	.72	<.1	<.1	<.50	<.4	E.01	<.4	<1.0	<.2	<.04	2.88	<.5
22...	<2.0	.96	<.1	<.1	<.50	<.4	E.02	<.4	<1.0	<.2	<.04	4.19	<.5
MAR													
15...	<2.0	.51	<.1	<.1	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	2.20	<.5
APR													
20...	<2.0	.87	<.1	<.1	<.50	<.4	E.02	<.4	<1.0	<.2	<.04	3.74	E.2
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	<2.0	.72	<.1	<.1	<.50	<.4	E.02	<.4	<1.0	<.2	<.04	2.89	<.5
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<2.0	.42	<.1	<.1	<.50	<.4	E.02	<.4	<1.0	<.2	<.04	2.39	<.5
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water unfltrd ug/L (77342)	n-propyl-benzene water unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)	sec-Butyl-benzene water unfltrd ug/L (77350)	Styrene water unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water unfltrd ug/L (77353)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water unfltrd ug/L (32102)	Tetra-hydro-furan, water, unfltrd ug/L (81607)	Toluene water unfltrd ug/L (34010)
OCT													
14...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	E.03	<1	<.02
21...	<.4	<.1	<.04	<.04	<.06	<.04	<.03	<.1	<.06	<.03	E.05	<1	<.02
JAN													
03...	<.4	<.1	<.04	7.39	<.06	<.04	<.03	<.1	<.06	<.03	E.06	<1	E.09
FEB													
02...	<.4	<.1	<.04	2.27	<.06	<.04	<.03	M	<.06	E.01	.36	<1	E.03
07...	<.4	<.1	<.04	2.55	<.06	<.09	<.03	E.1	<.06	<.03	E.02	<1	E.03
22...	<.4	M	<.04	3.72	<.06	<.04	<.03	<.1	<.06	<.03	.11	<1	E.04
MAR													
15...	<.4	<.1	<.04	1.98	<.06	<.04	<.03	<.1	<.06	<.03	<.06	<1	E.02
APR													
20...	<.4	<.1	<.04	4.13	<.06	<.04	<.03	E.1	<.06	<.03	.22	<1	E.03
MAY													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
03...	<.4	<.1	<.04	3.77	<.06	<.04	<.03	<.1	<.06	<.03	.19	<1	E.02
JUL													
01...	--	--	--	--	--	--	--	--	--	--	--	--	--
15...	<.4	<.1	<.04	2.84	<.06	<.16	<.03	<.1	<.06	E.01	<.06	<1	E.01
AUG													
08...	--	--	--	--	--	--	--	--	--	--	--	--	--

353112078205802 TOWN OF SMITHFIELD, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)	trans-1,4-Di-chloro-2-butene, wat unf ug/L (73547)	Tri-bromo-methane water unfltrd ug/L (32104)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	Tri-chloro-methane water unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Di-chlor-vos, water fltrd, ug/L (38775)
OCT									
14...	<.03	<.09	<.7	.35	<.04	<.08	19.3	<.1	<.01
21...	<.03	<.09	<.7	.22	<.04	<.08	17.3	<.1	--
JAN									
03...	<.03	<.09	<.7	.13	<.04	<.08	10.7	<.1	<.01
FEB									
02...	<.03	<.09	<.7	.13	<.04	<.08	11.7	<.1	<1.00
07...	<.03	<.09	<.7	.11	<.04	<.08	13.4	<.1	<.01
22...	<.03	<.09	<.7	.10	<.04	<.08	25.8	<.1	--
MAR									
15...	<.03	<.09	<.7	E.10	<.04	<.08	19.0	<.1	<.01
APR									
20...	<.03	<.09	<.7	E.10	<.04	<.08	19.6	<.1	<.01
MAY									
12...	--	--	--	--	--	--	--	--	<.01
JUN									
03...	<.03	<.09	<.7	.43	<.04	<.08	21.1	<.1	<.01
JUL									
01...	--	--	--	--	--	--	--	--	<.01
15...	<.03	<.09	<.7	.35	<.04	<.08	43.5	<.1	<.01
AUG									
08...	--	--	--	--	--	--	--	--	<.01

Remark codes used in this table:
< -- Less than.
E -- Estimated.
M -- Presence verified but not quantified.

02087580 SWIFT CREEK NEAR APEX, NC

LOCATION.--Lat 35°43'08", long 78°45'08", Wake County, Hydrologic Unit 03020201, on right bank at downstream side of bridge on Secondary Road 1152, 2.8 mi downstream from Williams Creek, and 6 mi east of Apex.

DRAINAGE AREA.--21.0 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional discharge measurements, water years 1953-69. March 2002 to current year.
REVISED RECORDS.--WDR NC-03-1A: 2002.

GAGE.--Water-stage recorder. Datum of gage is 306.22 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for period of poor gage-height record, May 16 to Sept. 30, and those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 2002. No flow occurred part of each day July 19 and Sept. 10-14.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	2.1	9.8	3.8	12	54	25	35	1.7	1.4	7.9	0.99
2	7.2	1.8	7.2	3.9	10	24	48	15	24	0.63	2.6	0.82
3	7.2	2.1	5.0	4.3	61	18	43	7.1	16	0.42	1.3	1.1
4	4.8	10	4.6	4.5	49	15	22	4.0	10	0.77	1.7	0.79
5	3.6	14	4.1	4.8	20	14	19	3.3	6.2	2.3	0.89	0.41
6	2.5	4.4	3.8	5.3	15	12	17	47	3.5	3.2	0.41	0.62
7	1.7	2.2	6.9	4.9	13	11	17	19	62	1.3	0.42	0.31
8	1.8	2.1	6.7	3.9	12	166	36	10	108	62	0.26	0.24
9	1.4	1.9	12	3.8	12	49	92	5.7	17	8.8	336	0.15
10	1.7	1.2	107	3.1	14	24	30	3.5	30	2.5	48	0.09
11	1.7	0.99	27	3.0	10	20	22	2.9	18	0.97	19	0.06
12	1.3	46	13	3.1	7.3	18	19	69	8.9	0.68	11	0.09
13	20	112	9.5	4.0	7.1	16	186	91	6.2	0.50	5.8	0.06
14	26	14	7.4	312	10	53	e84	19	4.8	0.31	3.2	1.8
15	16	6.9	5.2	45	16	24	e32	12	4.4	0.32	3.4	4.5
16	10	5.4	3.0	19	13	114	e16	10	2.9	0.23	2.1	0.13
17	4.2	4.4	3.3	14	14	241	e12	6.8	2.3	0.13	5.0	0.11
18	2.3	3.4	3.4	9.4	9.8	63	e10	4.7	1.8	0.06	2.9	0.09
19	2.1	3.1	4.7	6.9	6.4	30	e9.1	3.6	1.6	0.03	1.5	0.19
20	2.9	2.7	8.3	8.3	6.3	23	e8.6	32	e1.6	110	21	11
21	2.9	2.6	2.7	10	13	19	e7.4	54	e2.7	11	30	103
22	2.2	2.1	2.5	9.1	13	14	e6.4	13	e2.0	11	10	12
23	1.9	58	13	15	9.9	71	6.1	8.7	e1.5	47	12	3.9
24	1.8	37	16	5.4	107	32	5.5	7.7	0.92	9.5	6.9	1.2
25	2.1	14	7.7	4.6	40	18	3.3	5.6	0.36	3.7	2.5	1.2
26	2.2	6.5	9.5	5.9	19	15	3.3	3.2	0.20	1.9	1.1	0.74
27	2.0	4.1	9.5	7.2	15	14	3.8	2.3	1.8	1.1	0.97	0.63
28	1.9	107	5.8	4.4	189	65	3.2	2.1	7.1	0.88	0.71	0.74
29	1.8	19	5.1	3.3	---	42	4.2	1.9	9.8	107	0.52	0.41
30	2.1	11	5.6	70	---	24	8.2	2.0	2.5	23	0.87	0.39
31	2.3	---	5.0	22	---	23	---	1.8	---	17	1.6	---
TOTAL	150.3	501.99	334.3	623.9	723.8	1,326	799.1	502.9	359.78	429.63	541.55	147.76
MEAN	4.85	16.7	10.8	20.1	25.9	42.8	26.6	16.2	12.0	13.9	17.5	4.93
MAX	26	112	107	312	189	241	186	91	108	110	336	103
MIN	1.3	0.99	2.5	3.0	6.3	11	3.2	1.8	0.20	0.03	0.26	0.06
CFSM	0.23	0.80	0.51	0.96	1.23	2.04	1.27	0.77	0.57	0.66	0.83	0.23
IN.	0.27	0.89	0.59	1.11	1.28	2.35	1.42	0.89	0.64	0.76	0.96	0.26

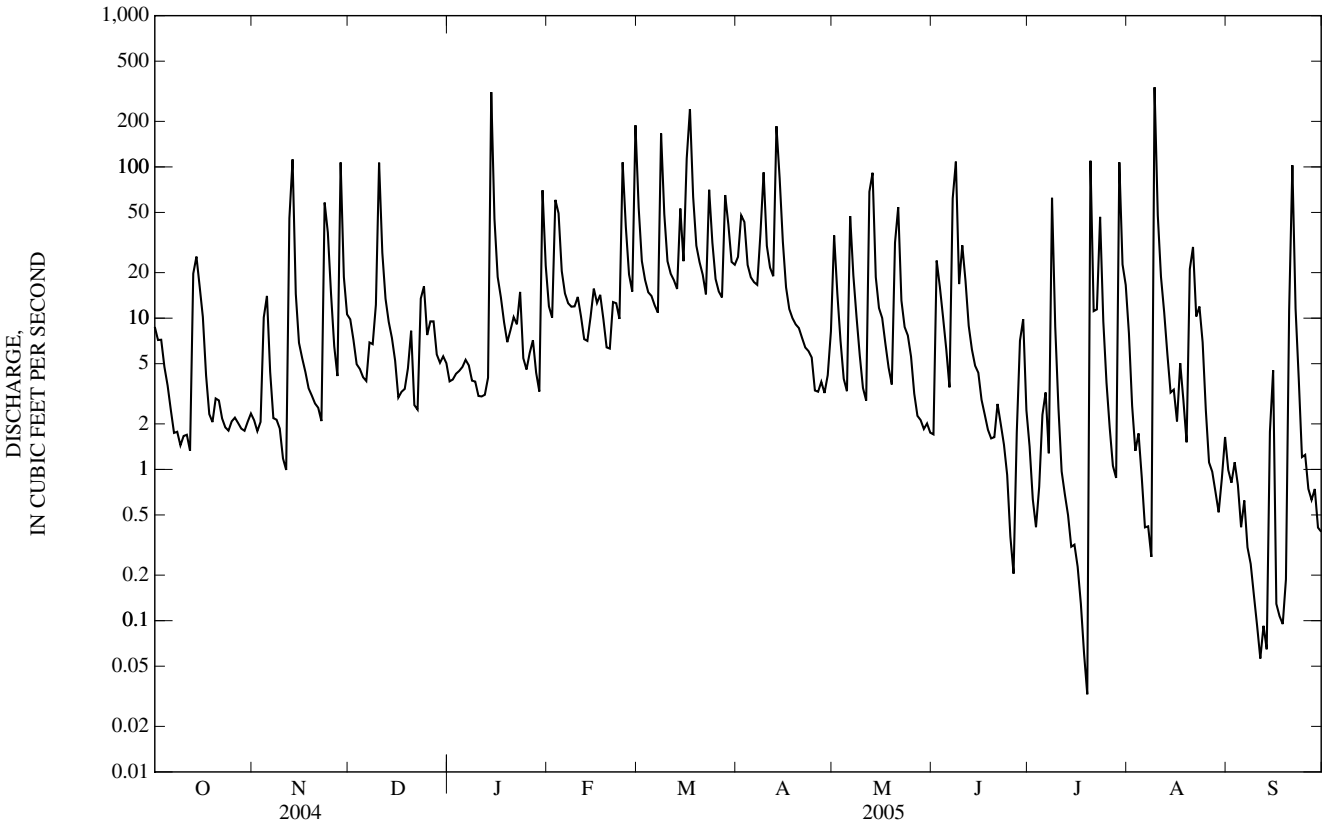
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	24.1	21.4	27.0	15.4	42.7	40.3	33.0	14.5	14.7	13.1	46.1	22.9
MAX	56.8	36.1	45.2	20.1	67.6	68.8	64.0	20.6	36.2	24.4	80.0	53.4
(WY)	(2003)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2004)	(2003)	(2003)	(2004)	(2004)
MIN	4.85	11.3	10.8	11.4	25.9	22.4	14.7	1.73	1.70	5.97	17.5	4.93
(WY)	(2005)	(2004)	(2005)	(2004)	(2005)	(2002)	(2004)	(2002)	(2002)	(2002)	(2005)	(2005)

02087580 SWIFT CREEK NEAR APEX, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	8,879.65		6,441.01			
ANNUAL MEAN	24.3		17.6		28.8	
HIGHEST ANNUAL MEAN					43.3	2003
LOWEST ANNUAL MEAN					17.6	2005
HIGHEST DAILY MEAN	816	Aug 14	336	Aug 9	914	Aug 8, 2003
LOWEST DAILY MEAN	0.54	Jul 10	0.03	Jul 19	0.00	Aug 3, 2002
ANNUAL SEVEN-DAY MINIMUM	1.0	Jul 5	0.14	Sep 7	0.00	Aug 3, 2002
MAXIMUM PEAK FLOW			1,180	Aug 9	2,720	Oct 11, 2002
MAXIMUM PEAK STAGE			9.59	Aug 9	11.71	Oct 11, 2002
INSTANTANEOUS LOW FLOW			0.00*	Jul 18	0.00*	Aug 3, 2002
ANNUAL RUNOFF (CFSM)	1.16		0.840		1.37	
ANNUAL RUNOFF (INCHES)	15.73		11.41		18.64	
10 PERCENT EXCEEDS	49		46		62	
50 PERCENT EXCEEDS	11		6.2		10	
90 PERCENT EXCEEDS	2.0		0.78		1.5	

* See REMARKS.
e Estimated.



02087580 SWIFT CREEK NEAR APEX, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 2002 to August 2004.
WATER TEMPERATURE: March 2002 to August 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from March 2002 to August 2004.

REMARKS.--Station operated as part of NAWQA program from March 2002 to current year. Station was operated from October 1989 to June 1995 as part of a six county regional surface-water quality assessment.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	510, January 28, 2004	26, August 8, 2003
WATER TEMPERATURE, °C	31.9, August 27, 2003	-0.2, January 25, 26, 2004

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
NOV													
02...	1300	9	1.7	756	5.6	61	7.0	107	18.7	36	44	6.16	2.6
DEC													
17...	1030	9	3.4	765	11.9	88	7.1	100	3.1	27	33	6.52	4.9
FEB													
17...	1400	9	13	753	12.4	114	7.4	106	11.0	26	32	11.3	6.0
APR													
26...	1200	9	3.4	754	9.2	90	6.4	118	13.8	37	45	--	--
JUN													
08...	1030	9	78	754	8.1	99	7.0	82	25.1	23	28	6.10	5.3
21...	1100	D	--	--	5.5	--	--	102	20.3	--	--	--	--
AUG													
08...	1030	9	.21	757	5.0	60	7.0	101	24.4	37	45	5.80	3.5

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)
NOV													
02...	<.04	--	<.06	E.005	.07	.35	.006	.036	.5	<.1	.5	5.0	--
DEC													
17...	E.02	--	.09	<.008	--	.53	E.003	.032	--	--	--	--	--
FEB													
17...	<.04	--	.09	<.008	--	.55	E.003	.031	--	--	--	--	--
APR													
26...	.13	.12	.13	.009	--	.60	.007	.042	--	--	--	--	--
JUN													
08...	E.02	--	.10	E.004	--	.90	<.006	.100	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	3.3
AUG													
08...	.07	--	.18	E.006	--	.61	.009	.049	--	--	--	--	--

02087580 SWIFT CREEK NEAR APEX, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Peri-phyton biomass ash weight, g/m2 (00572)	Peri-phyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	3,5-Di-chloro-aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)
NOV													
02...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	<.006
DEC													
17...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	<.006
FEB													
17...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	E.005
APR													
26...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	E.005
JUN													
08...	--	--	--	--	--	<.09	<.006	<.005	E.008	<.004	<.004	<.004	<.006
21...	89	92.00	471	1.5	6.8	--	--	--	--	--	--	--	--
AUG													
08...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	<.008	<.006

Date	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-Endo-sulfan, water, fltrd, ug/L (34362)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	cis-Propi-cona-zole, water, fltrd, ug/L (79846)
NOV													
02...	<.006	<.005	--	<.007	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
DEC													
17...	<.006	<.005	--	<.009	<.07	<.050	<.010	E.017	--	<.06	<.005	<.006	--
FEB													
17...	<.006	<.005	--	.011	<.07	<.050	<.010	E.010	--	<.06	<.005	<.006	--
APR													
26...	<.006	<.005	--	.013	<.07	<.050	<.010	E.005	--	<.06	<.005	<.006	--
JUN													
08...	<.006	<.005	<.005	.035	<.07	<.050	<.010	E.036	<.020	<.06	<.005	<.006	<.008
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	<.006	<.005	<.005	.008	<.07	<.050	<.010	E.011	<.020	<.06	<.005	<.006	<.008

Date	Cyana-zine, water, fltrd, ug/L (04041)	Cyflu-thrin, water, fltrd, ug/L (61585)	lambda-Cyhalo-thrin, water, fltrd, ug/L (61595)	Cyper-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)	Dicro-tophos, water fltrd, ug/L (38454)	Diel-drin, water, fltrd, ug/L (39381)	Dimeth-oate, water, fltrd 0.7u GF ug/L (82662)	Disulf-oton sulfone water, fltrd, ug/L (61640)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)
NOV													
02...	--	<.008	--	<.009	<.003	E.004	<.01	<.005	<.08	<.009	<.006	--	--
DEC													
17...	--	<.008	--	<.009	<.003	E.008	<.01	<.005	<.08	<.009	<.006	--	--
FEB													
17...	--	<.027	--	<.009	<.003	E.005	<.01	<.005	<.08	<.009	<.006	--	--
APR													
26...	--	<.027	--	<.009	<.003	E.006	<.01	<.005	<.08	<.009	<.006	--	--
JUN													
08...	<.018	<.027	<.009	<.009	<.003	E.010	--	<.005	<.08	<.009	<.006	<.01	<.02
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	<.018	<.027	<.009	<.009	<.003	E.007	--	<.005	<.08	<.009	<.006	<.01	<.02

02087580 SWIFT CREEK NEAR APEX, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)
NOV													
02...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.005	<.024	<.016	<.003
DEC													
17...	--	--	<.0020	<.004	--	<.049	<.04	<.03	E.001	E.009	E.002	E.010	<.003
FEB													
17...	--	--	<.0020	<.004	--	<.049	<.04	<.03	E.003	E.006	E.005	E.011	--
APR													
26...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.008	<.024	E.012	--
JUN													
08...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	E.008	E.009	E.009	E.021	--
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	E.007	E.009	E.008	E.009	--

Date	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)
NOV													
02...	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006	--
DEC													
17...	<.003	<.013	<.387	<.003	<.030	<.027	<.011	<.006	<.03	<.015	.017	<.006	--
FEB													
17...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006	--
APR													
26...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006	--
JUN													
08...	<.003	<.013	<.538	<.003	<.030	<.027	<.014	<.006	<.03	<.015	<.016	<.006	<.003
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	<.003	<.013	<.538	<.003	<.030	<.027	.030	<.006	<.03	<.015	<.006	<.006	<.003

Date	Myclobutanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)
NOV													
02...	<.008	--	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	--	--	.012
DEC													
17...	.024	--	<.022	<.10	<.011	<.05	<.008	.01	<.005	.131	--	--	.793
FEB													
17...	.027	--	E.012	<.10	<.011	<.05	<.008	.01	<.005	.141	--	--	.306
APR													
26...	<.035	--	<.022	<.10	<.011	--	<.008	.03	<.005	.090	--	--	.114
JUN													
08...	<.011	<.007	E.014	<.10	<.011	<.05	<.008	.05	<.005	.024	<.011	<.02	.057
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	E.022	<.007	<.022	<.10	<.011	--	--	.03	<.005	<.010	<.011	<.02	.030

02087580 SWIFT CREEK NEAR APEX, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Tribuphos, water, fltrd, ug/L (61610)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
NOV													
02...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	90	18	.08
DEC													
17...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	83	14	.13
FEB													
17...	<.02	--	<.07	<.02	<.01	--	--	--	E.003	<.01	81	14	.49
APR													
26...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	77	5	.05
JUN													
08...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	76	50	11
21...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
08...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.020	<.009	<.01	90	6	.00

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water sample.
D -- Plant tissue sample.

02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC

LOCATION.--Lat 35°41'39", long 78°41'39", Wake County, Hydrologic Unit 03020201, 0.05 mi above dam, 6.8 mi southwest of Raleigh.

PERIOD OF RECORD.--Water years 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
05...	0945	9	18	1.0	.90	758	7.7	103	8.8	86	30.0	20	4.73
05...	0950	9	--	3.0	--	758	.9	12	6.6	84	28.4	--	--
05...	0955	9	--	6.0	--	758	.1	1	7.2	224	18.9	--	--

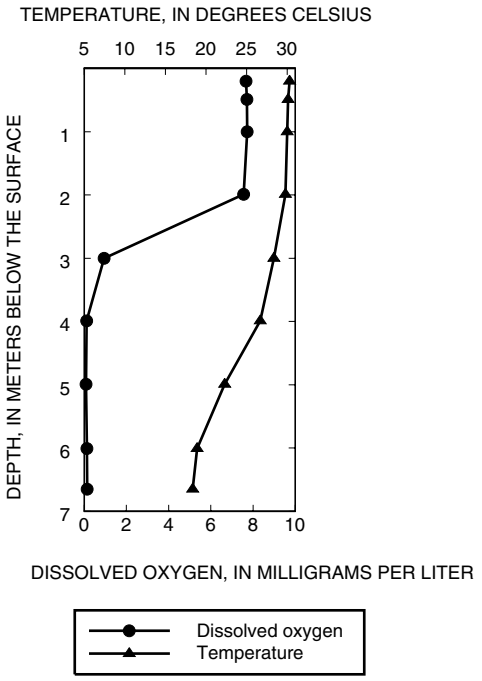
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
05...	2.08	2.49	5.49	19	22	6.69	E.1	6.88	3.8	58	.63	E.007	<.016
05...	--	--	--	--	--	--	--	--	--	--	.59	E.008	<.016
05...	--	--	--	--	--	--	--	--	--	--	2.1	1.48	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
05...	<.002	<.02	.029	7.9	10.0	<.1	60	55.0
05...	<.002	<.02	.031	--	--	--	90	122
05...	.008	<.02	.042	--	--	--	14,300	5,280

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water

02087588 LAKE WHEELER ON SWIFT CREEK NEAR RALEIGH, NC—Continued



0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC

LOCATION.--Lat 35°41'37", long 78°41'32", Wake County, Hydrologic Unit 03020201, 0.1 mi downstream of Secondary Road 1375, 0.1 mi downstream of Lake Wheeler, and 2.0 mi north of McCullars Crossroads.

DRAINAGE AREA.--35.8 mi^2.

PERIOD OF RECORD.--December 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is 251.46 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some regulation by Lake Wheeler (station 02087588). Maximum gage height for period of record from floodmarks. No flow also occurred part of each day, June 27, 28, 29, 1993. Minimum flow for current year also occurred June 27.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	4.4	27	16	35	157	35	22	0.60	2.9	17	0.38
2	16	5.1	19	15	25	64	42	26	8.0	1.5	10	0.40
3	13	3.9	16	15	34	37	59	17	18	0.85	5.4	0.42
4	12	8.6	13	14	79	27	37	12	15	0.72	3.1	0.47
5	8.6	15	12	15	49	23	27	8.3	12	0.86	2.0	0.49
6	5.4	13	12	16	32	22	23	29	8.1	1.6	1.6	0.49
7	4.1	8.7	16	13	25	19	20	37	11	1.1	0.81	0.51
8	3.2	6.0	15	14	21	133	24	23	115	25	0.36	0.51
9	2.8	4.2	16	12	20	149	80	15	47	22	82	0.51
10	3.1	3.2	85	12	21	63	60	11	24	14	165	0.51
11	2.5	2.9	90	11	17	39	36	8.6	24	7.1	44	0.51
12	2.3	10	44	11	14	29	25	10	16	4.4	20	0.57
13	11	135	28	12	12	23	135	94	11	3.1	12	0.57
14	36	61	19	338	14	45	116	47	7.7	2.1	7.0	0.57
15	28	29	14	233	18	46	56	24	4.9	1.7	3.3	0.55
16	21	18	12	71	20	70	32	19	2.8	1.4	2.4	0.57
17	13	14	11	39	18	421	23	13	1.1	1.1	2.4	0.57
18	9.1	12	11	25	16	195	19	9.5	0.80	0.33	1.6	0.57
19	8.5	11	13	20	12	83	17	5.7	0.49	0.45	1.5	0.59
20	6.7	10	13	18	11	52	16	14	0.78	30	1.8	0.64
21	6.0	9.2	9.5	19	16	37	14	38	0.82	27	14	6.9
22	5.4	8.7	8.4	19	17	30	12	27	0.67	17	12	13
23	4.6	23	16	22	16	72	14	16	0.39	39	8.8	8.0
24	4.8	59	29	16	62	84	9.6	10	0.43	23	6.0	4.0
25	4.7	44	23	14	93	50	6.8	5.3	0.49	14	2.9	2.1
26	4.8	23	23	14	47	35	3.8	4.0	0.32	6.3	1.5	2.0
27	4.5	17	22	14	30	28	6.8	2.3	0.23	3.0	1.1	1.0
28	4.7	97	18	12	161	67	5.4	1.8	0.36	1.6	0.96	0.68
29	5.0	66	17	12	---	82	5.5	1.6	1.9	38	0.61	0.69
30	6.0	35	17	47	---	49	10	1.1	3.0	39	0.54	0.45
31	5.3	---	17	57	---	36	---	0.74	---	24	0.96	---
TOTAL	281.1	756.9	685.9	1,166	935	2,267	969.9	552.94	336.88	354.11	432.64	49.22
MEAN	9.07	25.2	22.1	37.6	33.4	73.1	32.3	17.8	11.2	11.4	14.0	1.64
MAX	36	135	90	338	161	421	135	94	115	39	165	13
MIN	2.3	2.9	8.4	11	11	19	3.8	0.74	0.23	0.33	0.36	0.38

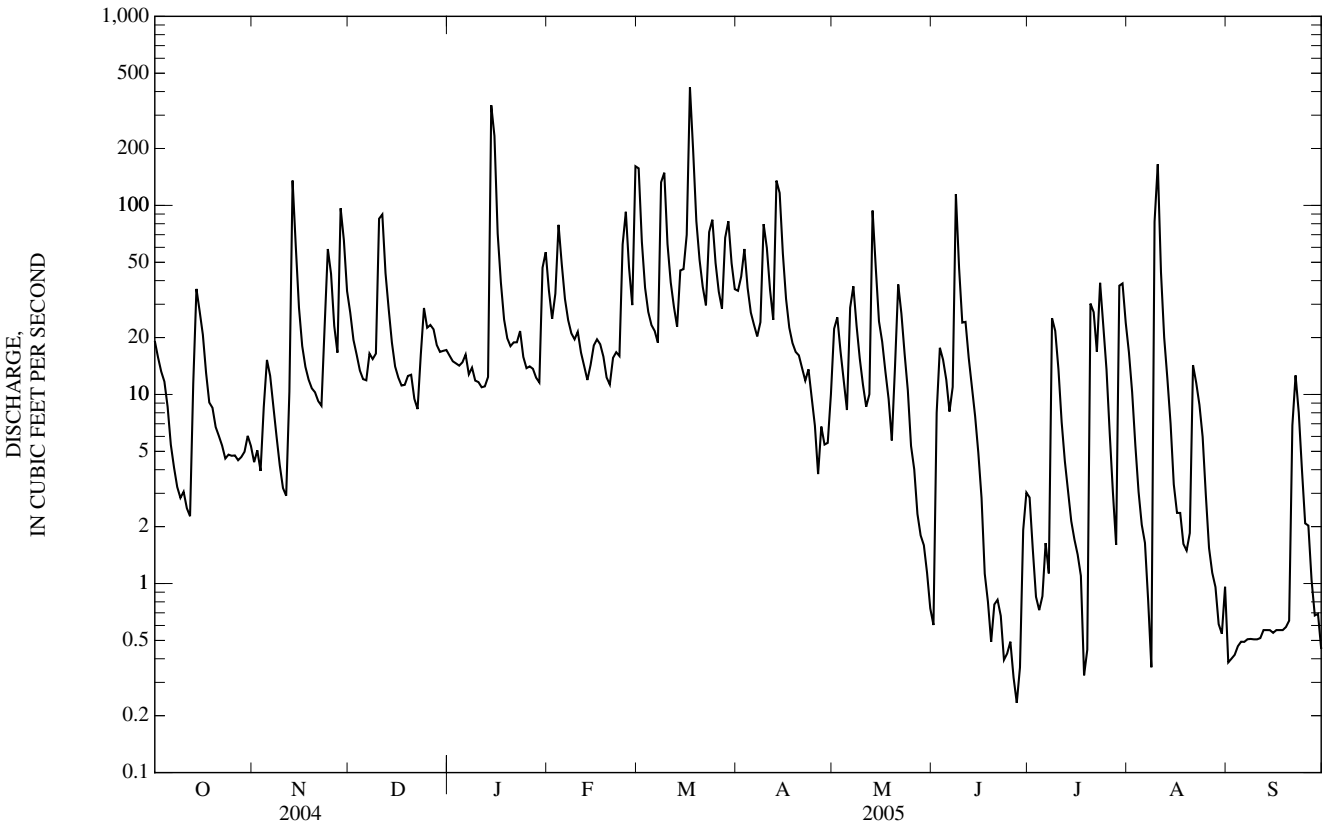
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	25.3	25.9	26.5	58.9	56.9	71.4	41.9	22.6	27.8	23.3	29.1	45.5
MAX	106	69.4	74.2	183	159	183	110	75.7	91.5	130	112	323
(WY)	(1996)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(2001)	(2001)	(2003)	(1999)
MIN	4.38	0.99	7.46	12.1	14.4	15.1	10.7	4.95	0.06	1.16	0.61	0.11
(WY)	(1992)	(2002)	(2002)	(2001)	(1991)	(1988)	(1995)	(2000)	(2002)	(1988)	(1997)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	13,671.43		8,787.59			
ANNUAL MEAN	37.4		24.1		38.7	
HIGHEST ANNUAL MEAN					70.8	2003
LOWEST ANNUAL MEAN					18.4	1992
HIGHEST DAILY MEAN	658	Aug 14	421	Mar 17	2,700	Sep 6, 1996
LOWEST DAILY MEAN	0.04	Jun 24	0.23	Jun 27	0.01	Jun 28, 1993
ANNUAL SEVEN-DAY MINIMUM	0.24	Jun 19	0.41	Jun 22	0.02	Jun 29, 2002
MAXIMUM PEAK FLOW			689	Jan 14	6,790	Sep 6, 1996
MAXIMUM PEAK STAGE			8.76	Jan 14	14.15*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.19*	Jun 26	0.00*	Jun 27, 1993
10 PERCENT EXCEEDS	78		58		79	
50 PERCENT EXCEEDS	19		13		15	
90 PERCENT EXCEEDS	3.2		0.69		0.54	

* See REMARKS.

0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC—Continued



02087701 LAKE BENSON AT DAM NEAR GARNER, NC

LOCATION.--Lat 35°39'45", long 78°36'41", Wake County, Hydrologic Unit 03020201, at dam 1.5 mi below Reedy Branch, 3.3 mi south of Garner.

DRAINAGE AREA.--67.0 mi^2.

PERIOD OF RECORD.--Water years 1990 to 1995, 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in October 1994 and April 1995. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
05...	1245	9	25	1.0	.60	759	8.6	115	8.8	84	30.6	21	4.85
05...	1250	9	--	2.0	--	759	4.0	52	6.9	84	29.0	--	--
05...	1255	9	--	3.0	--	759	.2	2	6.9	108	27.6	--	--

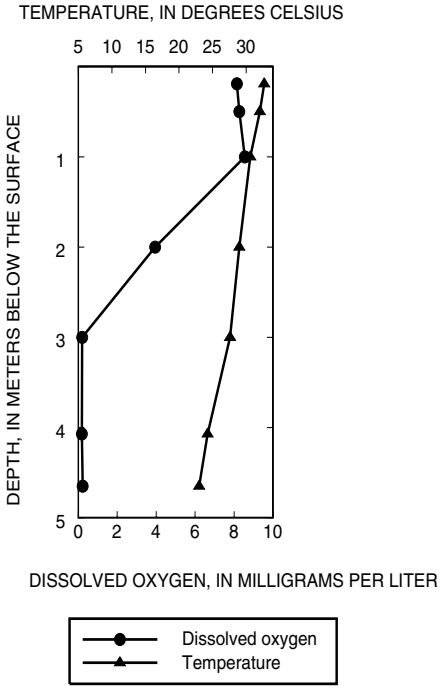
Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
05...	2.12	2.32	5.22	19	22	5.97	E.1	9.51	3.1	61	.79	E.007	<.016
05...	--	--	--	--	--	--	--	--	--	--	.85	.015	<.016
05...	--	--	--	--	--	--	--	--	--	--	.95	.158	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Chlorophyll b phytoplankton, fluoro, ug/L (70954)	Iron, water, unfltrd recoverable, ug/L (01045)	Manganese, water, unfltrd recoverable, ug/L (01055)
AUG								
05...	<.002	<.02	.038	8.7	13.7	<.1	200	156
05...	<.002	<.02	.045	--	--	--	310	287
05...	<.002	<.02	.053	--	--	--	360	586

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

02087701 LAKE BENSON AT DAM NEAR GARNER, NC—Continued



02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'15", long 78°35'26", Johnston County, Hydrologic Unit 03020201, on left bank 800 ft downstream of bridge on State Highway 50, 0.5 mi upstream from Buffalo Branch, 3.7 mi downstream of Wake-Johnston County line, and 9.5 mi southwest of Clayton.

DRAINAGE AREA.--83.5 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for Oct. 1939, published in WSP 1303.

REVISED RECORDS.--WSP 952: 1940(M), 1941. WSP 1233: 1943(M), 1945, 1949. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 183.56 ft above NAVD of 1988. Nov. 1-20, 1939, nonrecording gage at same site. Satellite telemetry at station.

REMARKS.--Records good. Maximum discharge for period of record from rating curve extended above 10,000 ft^3/s, by logarithmic plotting; maximum gage height for period of record, 14.88 ft, from high-water mark in gage well. Minimum discharge for period of record, no flow, also occurred Oct. 12-13, 1954, and July 13-28, 1986. Minimum discharge for current water year also occurred Sept. 12, 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	74	42	79	80	98	421	151	59	23	25	70	17
2	69	40	72	72	81	196	150	77	30	20	54	15
3	64	41	65	67	98	122	144	57	76	17	37	14
4	61	41	62	66	220	103	110	47	51	15	28	12
5	56	48	62	65	137	91	95	43	40	16	23	11
6	51	49	63	65	100	79	86	72	35	16	21	9.8
7	46	44	61	63	89	75	80	112	49	17	19	10
8	42	42	61	59	85	122	83	70	170	37	18	10
9	40	39	56	60	81	314	349	54	108	52	53	9.5
10	39	37	98	56	81	144	320	46	68	25	195	9.5
11	38	37	228	56	76	101	110	41	54	18	82	8.8
12	37	46	108	56	73	90	90	37	42	16	46	8.8
13	39	135	81	53	73	82	188	42	35	16	34	9.4
14	71	113	69	334	72	95	331	49	32	34	29	9.5
15	65	65	62	854	74	110	158	43	28	28	26	13
16	55	56	59	551	73	128	111	59	24	18	26	12
17	47	52	59	151	68	542	90	56	21	15	33	12
18	42	49	58	109	64	737	85	42	18	21	52	12
19	41	48	61	97	61	307	76	36	16	74	34	12
20	41	47	59	91	58	150	73	34	23	90	28	13
21	48	47	55	91	61	121	67	50	19	106	28	61
22	51	46	55	87	68	105	62	63	17	49	26	47
23	47	58	60	84	64	198	58	42	15	114	22	24
24	42	124	100	76	94	395	56	35	16	78	24	18
25	42	91	83	73	229	165	52	30	15	39	22	15
26	42	67	72	72	114	126	50	29	13	28	20	14
27	42	58	75	70	89	116	49	27	14	22	19	15
28	41	165	70	65	194	266	49	26	15	20	18	14
29	40	191	69	61	---	366	46	24	34	33	17	12
30	40	97	81	98	---	162	48	23	32	61	17	11
31	42	---	91	164	---	138	---	24	---	69	17	---
TOTAL	1,495	2,015	2,334	3,946	2,675	6,167	3,417	1,449	1,133	1,189	1,138	459.3
MEAN	48.2	67.2	75.3	127	95.5	199	114	46.7	37.8	38.4	36.7	15.3
MAX	74	191	228	854	229	737	349	112	170	114	195	61
MIN	37	37	55	53	58	75	46	23	13	15	17	8.8
CFSM	0.58	0.80	0.90	1.52	1.14	2.38	1.36	0.56	0.45	0.46	0.44	0.18
IN.	0.67	0.90	1.04	1.76	1.19	2.75	1.52	0.65	0.50	0.53	0.51	0.20

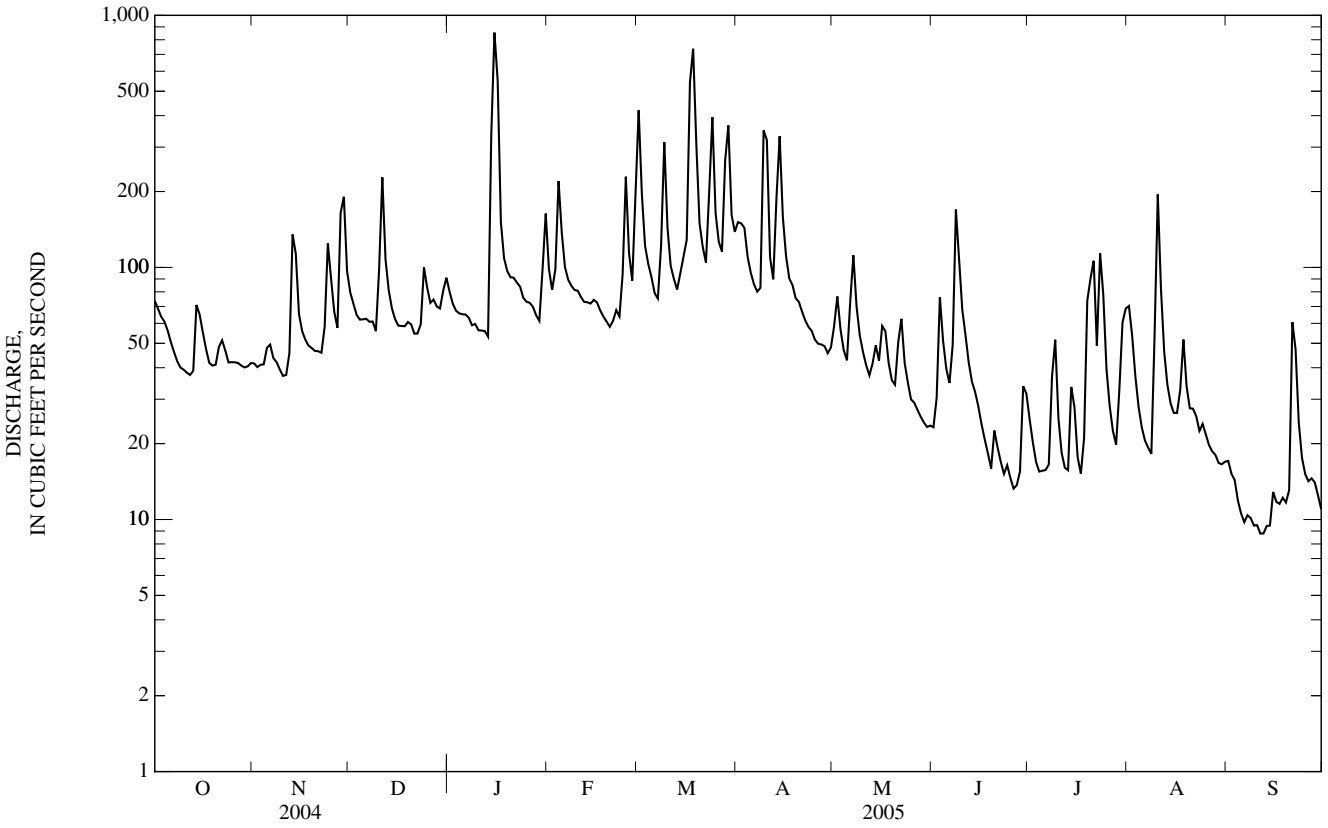
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	53.3	65.3	85.8	137	165	171	117	70.6	53.8	60.1	63.5	63.8
MAX	275	230	254	378	450	439	319	330	203	472	340	601
(WY)	(1960)	(1996)	(1973)	(1998)	(1973)	(1998)	(1959)	(1958)	(1992)	(1965)	(1949)	(1999)
MIN	0.77	4.67	19.7	31.6	46.2	45.1	16.1	11.4	2.15	0.23	1.75	0.50
(WY)	(1987)	(1974)	(1952)	(1942)	(1941)	(1981)	(1986)	(1981)	(1986)	(1986)	(1983)	(1954)

02088000 MIDDLE CREEK NEAR CLAYTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	34,779		27,417.3			
ANNUAL MEAN	95.0		75.1		91.9	
HIGHEST ANNUAL MEAN					193	2003
LOWEST ANNUAL MEAN					30.0	1981
HIGHEST DAILY MEAN	1,150	Aug 16	854	Jan 15	6,260	Sep 6, 1996
LOWEST DAILY MEAN	18	Jul 22	8.8	Sep 11	0.00	Oct 11, 1954
ANNUAL SEVEN-DAY MINIMUM	22	Jul 22	9.4	Sep 8	0.00	Jul 13, 1986
MAXIMUM PEAK FLOW			996	Jan 15	11,900*	Sep 6, 1996
MAXIMUM PEAK STAGE			7.16	Jan 15	14.88*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			7.5*	Sep 11	0.00*	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	1.14		0.900		1.10	
ANNUAL RUNOFF (INCHES)	15.49		12.21		14.95	
10 PERCENT EXCEEDS	171		137		200	
50 PERCENT EXCEEDS	64		56		47	
90 PERCENT EXCEEDS	32		16		8.0	

* See REMARKS.



02088090 BLACK CREEK NEAR FOUR OAKS, NC

LOCATION.--Lat 35°28'09", long 78°27'25", Johnston County, Hydrologic Unit 03020201, at bridge on Secondary Road 1162, 2.2 mi nowthwest of Four Oaks, and 5.0 mi above the mouth.

DRAINAGE AREA.--79 mi^2.

PERIOD OF RECORD.--December 2003 to current year.

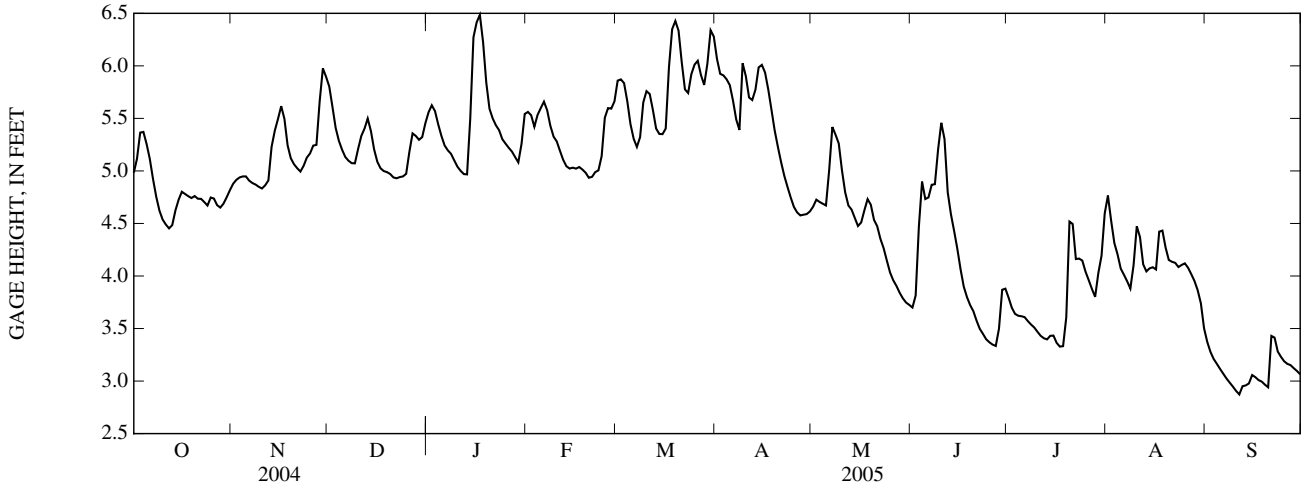
GAGE.--Water-stage recorder. Datum of gage is 114.00 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 6.79 ft, Aug. 18, 2004; minimum gage height, 2.85 ft, Sept. 11, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 6.52 ft, Jan. 17; minimum gage height, 2.85 ft, Sept. 11, 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.98	4.88	5.80	5.56	5.56	5.86	6.07	4.66	3.70	3.79	4.77	3.37
2	5.12	4.91	5.61	5.62	5.53	5.87	5.92	4.73	3.81	3.70	4.53	3.28
3	5.36	4.94	5.41	5.57	5.42	5.84	5.91	4.71	4.47	3.64	4.31	3.21
4	5.37	4.95	5.29	5.44	5.53	5.67	5.87	4.69	4.90	3.62	4.21	3.16
5	5.26	4.95	5.20	5.33	5.60	5.45	5.82	4.67	4.73	3.62	4.07	3.12
6	5.11	4.91	5.13	5.24	5.66	5.31	5.67	5.01	4.75	3.61	4.01	3.07
7	4.92	4.88	5.10	5.20	5.58	5.23	5.49	5.42	4.87	3.57	3.95	3.02
8	4.75	4.87	5.07	5.16	5.43	5.32	5.39	5.34	4.87	3.54	3.88	2.99
9	4.62	4.85	5.07	5.10	5.33	5.65	6.02	5.26	5.20	3.51	4.10	2.95
10	4.54	4.83	5.21	5.04	5.28	5.76	5.90	5.01	5.46	3.47	4.47	2.91
11	4.49	4.86	5.33	5.00	5.19	5.73	5.70	4.80	5.30	3.43	4.37	2.87
12	4.45	4.91	5.40	4.97	5.11	5.58	5.67	4.67	4.80	3.41	4.11	2.95
13	4.48	5.23	5.50	4.97	5.04	5.40	5.77	4.63	4.59	3.40	4.04	2.96
14	4.63	5.38	5.38	5.50	5.02	5.35	5.99	4.55	4.43	3.43	4.07	2.98
15	4.73	5.49	5.20	6.27	5.03	5.35	6.01	4.48	4.26	3.43	4.08	3.06
16	4.80	5.62	5.09	6.42	5.02	5.40	5.94	4.51	4.07	3.36	4.06	3.04
17	4.78	5.50	5.03	6.49	5.04	5.99	5.77	4.63	3.90	3.33	4.42	3.01
18	4.76	5.24	5.00	6.23	5.01	6.35	5.58	4.73	3.80	3.33	4.43	3.00
19	4.74	5.12	4.99	5.84	4.98	6.43	5.39	4.68	3.72	3.61	4.27	2.97
20	4.76	5.06	4.97	5.59	4.94	6.34	5.23	4.53	3.67	4.52	4.15	2.94
21	4.74	5.03	4.94	5.50	4.94	6.03	5.08	4.47	3.58	4.50	4.14	3.43
22	4.73	4.99	4.93	5.43	4.99	5.78	4.95	4.35	3.50	4.16	4.13	3.41
23	4.70	5.05	4.94	5.39	5.01	5.74	4.85	4.26	3.45	4.17	4.09	3.28
24	4.67	5.13	4.95	5.30	5.14	5.92	4.75	4.15	3.40	4.15	4.11	3.23
25	4.75	5.17	4.97	5.26	5.51	6.01	4.66	4.03	3.37	4.04	4.12	3.19
26	4.74	5.24	5.18	5.22	5.60	6.05	4.61	3.96	3.35	3.96	4.08	3.16
27	4.67	5.25	5.36	5.18	5.59	5.91	4.58	3.91	3.33	3.88	4.02	3.15
28	4.65	5.66	5.33	5.13	5.66	5.82	4.58	3.84	3.50	3.80	3.95	3.12
29	4.69	5.98	5.30	5.08	---	6.02	4.59	3.79	3.87	4.03	3.87	3.10
30	4.75	5.90	5.32	5.26	---	6.34	4.61	3.75	3.88	4.19	3.74	3.06
31	4.82	---	5.45	5.54	---	6.28	---	3.72	---	4.60	3.50	---
MEAN	4.79	5.16	5.21	5.45	5.28	5.80	5.41	4.51	4.15	3.77	4.13	3.10
MAX	5.37	5.98	5.80	6.49	5.66	6.43	6.07	5.42	5.46	4.60	4.77	3.43
MIN	4.45	4.83	4.93	4.97	4.94	5.23	4.58	3.72	3.33	3.33	3.50	2.87



02088270 MILL CREEK AT COX MILL, NC

LOCATION.--Lat 35°20'30", long 78°12'59", Johnston County, Hydrologic Unit 03020201, at bridge on Secondary Road 1200, 1 mi nowthwest of Cox Mill.

DRAINAGE AREA.--168 mi^2.

PERIOD OF RECORD.--September 2003 to current year.

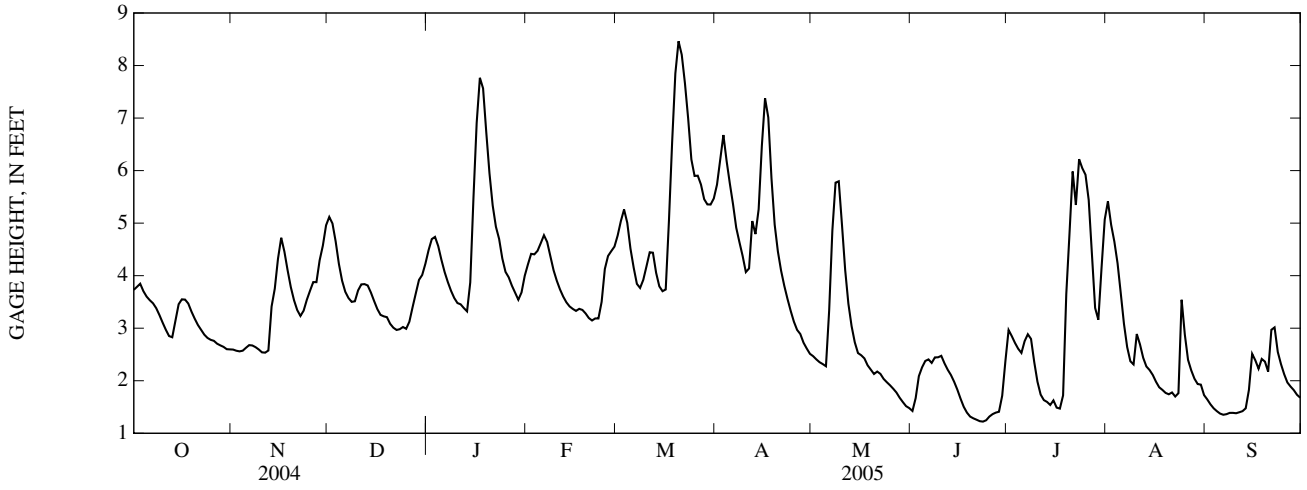
GAGE.--Water-stage recorder. Datum of gage is 70 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 13.29 ft, Aug. 20, 2004; minimum gage height, 1.19 ft, June 23, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 8.53 ft, March 20; minimum gage height, 1.19 ft, June 23.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.73	2.59	5.12	4.49	4.21	4.76	5.73	2.47	1.42	2.97	5.42	1.64
2	3.79	2.57	4.99	4.70	4.42	5.04	6.20	2.41	1.67	2.85	4.97	1.55
3	3.85	2.56	4.65	4.74	4.41	5.26	6.68	2.35	2.09	2.72	4.65	1.47
4	3.70	2.57	4.22	4.56	4.47	5.01	6.18	2.32	2.25	2.61	4.24	1.42
5	3.60	2.63	3.90	4.30	4.62	4.52	5.76	2.28	2.38	2.53	3.67	1.37
6	3.53	2.68	3.69	4.07	4.77	4.15	5.36	3.34	2.41	2.75	3.08	1.35
7	3.47	2.67	3.57	3.88	4.64	3.84	4.91	4.86	2.34	2.88	2.64	1.36
8	3.38	2.64	3.50	3.71	4.37	3.77	4.64	5.77	2.44	2.80	2.37	1.39
9	3.25	2.59	3.51	3.58	4.10	3.92	4.38	5.80	2.45	2.36	2.31	1.39
10	3.11	2.54	3.72	3.48	3.90	4.18	4.07	4.97	2.47	1.98	2.89	1.38
11	2.97	2.53	3.83	3.45	3.74	4.45	4.14	4.11	2.33	1.74	2.69	1.40
12	2.85	2.58	3.84	3.38	3.60	4.44	5.04	3.47	2.21	1.63	2.44	1.42
13	2.83	3.41	3.81	3.32	3.49	4.05	4.79	3.04	2.11	1.60	2.27	1.48
14	3.14	3.75	3.68	3.87	3.41	3.80	5.26	2.73	1.98	1.54	2.20	1.83
15	3.46	4.32	3.52	5.48	3.37	3.70	6.47	2.53	1.83	1.63	2.11	2.51
16	3.55	4.72	3.36	6.91	3.33	3.74	7.38	2.49	1.66	1.49	1.98	2.39
17	3.54	4.46	3.25	7.77	3.37	5.05	7.01	2.42	1.50	1.47	1.88	2.23
18	3.47	4.10	3.23	7.57	3.35	6.54	5.85	2.29	1.39	1.72	1.83	2.41
19	3.32	3.78	3.21	6.73	3.28	7.85	4.97	2.21	1.32	3.65	1.77	2.36
20	3.18	3.53	3.08	5.95	3.19	8.46	4.46	2.13	1.28	4.79	1.74	2.17
21	3.06	3.35	3.01	5.34	3.15	8.21	4.10	2.17	1.26	5.98	1.78	2.97
22	2.97	3.23	2.97	4.93	3.19	7.66	3.81	2.13	1.23	5.35	1.70	3.01
23	2.88	3.33	2.98	4.70	3.19	6.99	3.56	2.03	1.22	6.22	1.76	2.55
24	2.81	3.54	3.02	4.33	3.50	6.21	3.33	1.97	1.25	6.05	3.54	2.32
25	2.78	3.71	2.99	4.07	4.13	5.90	3.12	1.91	1.32	5.92	2.88	2.12
26	2.76	3.88	3.12	3.97	4.37	5.90	2.97	1.85	1.36	5.44	2.40	1.97
27	2.71	3.88	3.40	3.81	4.47	5.73	2.89	1.78	1.39	4.42	2.20	1.89
28	2.67	4.29	3.66	3.67	4.55	5.46	2.72	1.68	1.41	3.39	2.04	1.82
29	2.64	4.57	3.92	3.54	---	5.36	2.61	1.59	1.71	3.16	1.94	1.73
30	2.60	4.96	4.01	3.68	---	5.35	2.51	1.52	2.37	4.14	1.93	1.68
31	2.60	---	4.23	4.00	---	5.47	---	1.48	---	5.07	1.73	---
MEAN	3.17	3.40	3.64	4.58	3.88	5.32	4.70	2.71	1.80	3.32	2.61	1.89
MAX	3.85	4.96	5.12	7.77	4.77	8.46	7.38	5.80	2.47	6.22	5.42	3.01
MIN	2.60	2.53	2.97	3.32	3.15	3.70	2.51	1.48	1.22	1.47	1.70	1.35



02088500 LITTLE RIVER NEAR PRINCETON, NC

LOCATION.--Lat 35°30'41", long 78°09'37", Johnston County, Hydrologic Unit 03020201, on left bank 600 ft downstream of bridge on Secondary Road 2320, 0.8 mi upstream from Little Creek, and 3 mi north of Princeton.

DRAINAGE AREA.--232 mi^2.

PERIOD OF RECORD.--February 1930 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORD.--WSP 1233: 1935(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 107.75 ft above NGVD of 1929. Prior to Nov. 17, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight fluctuation and occasional regulation for short periods is caused by mills upstream from station. Maximum discharge for period of record, from rating curve extended above 9,000 ft^3/s, by logarithmic plotting. Minimum discharge for period of record occurred several days in Aug. 2002, due to regulation from unknown source. Minimum discharge for current water year also occurred Sept. 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	43	425	380	354	574	612	45	40	28	130	3.3
2	84	42	321	349	278	534	526	51	41	27	129	2.4
3	91	42	232	263	234	443	619	53	48	27	56	1.9
4	101	42	173	194	330	336	561	49	114	30	44	1.6
5	105	44	133	151	402	241	476	44	126	31	32	1.2
6	97	48	109	128	319	190	378	240	95	40	26	0.93
7	80	51	96	111	241	158	280	673	81	33	22	0.69
8	69	51	95	95	193	175	234	529	114	27	20	2.4
9	61	48	93	90	157	372	340	373	116	22	19	1.9
10	56	43	112	81	142	406	511	221	118	20	22	0.55
11	51	39	187	71	127	417	362	130	142	19	17	0.07
12	47	39	208	66	107	354	253	85	148	19	17	0.00
13	52	79	201	66	94	251	e360	66	99	24	26	0.00
14	75	159	165	269	86	207	e934	62	73	27	23	0.66
15	97	194	122	858	86	228	882	51	60	45	23	1.7
16	216	172	95	923	87	248	573	48	50	39	17	2.0
17	166	152	84	803	92	748	366	175	44	31	16	1.2
18	167	110	77	639	90	1,090	252	136	38	28	13	1.6
19	129	89	76	407	77	941	193	93	34	27	17	2.1
20	95	73	75	271	68	770	153	83	31	25	13	3.8
21	78	64	67	247	66	607	122	259	28	23	9.0	2.8
22	68	58	61	253	71	442	96	227	26	21	15	4.8
23	60	71	61	238	75	413	81	158	24	252	20	2.3
24	56	238	71	204	102	628	71	110	21	103	16	1.6
25	53	306	86	161	329	665	68	86	20	95	13	1.5
26	49	233	105	151	318	583	59	73	20	72	10	1.9
27	47	172	136	138	220	467	52	67	20	50	9.5	2.2
28	46	349	127	119	283	413	58	60	20	38	7.1	1.7
29	45	597	113	99	---	656	48	53	25	36	5.6	1.4
30	43	518	136	128	---	747	44	47	28	41	4.9	1.2
31	43	---	275	343	---	774	---	42	---	51	4.4	---
TOTAL	2,504	4,166	4,317	8,296	5,028	15,078	9,564	4,389	1,844	1,351	796.5	51.40
MEAN	80.8	139	139	268	180	486	319	142	61.5	43.6	25.7	1.71
MAX	216	597	425	923	402	1,090	934	673	148	252	130	4.8
MIN	43	39	61	66	66	158	44	42	20	19	4.4	0.00
CFSM	0.35	0.60	0.60	1.15	0.77	2.10	1.37	0.61	0.26	0.19	0.11	0.01
IN.	0.40	0.67	0.69	1.33	0.81	2.42	1.53	0.70	0.30	0.22	0.13	0.01

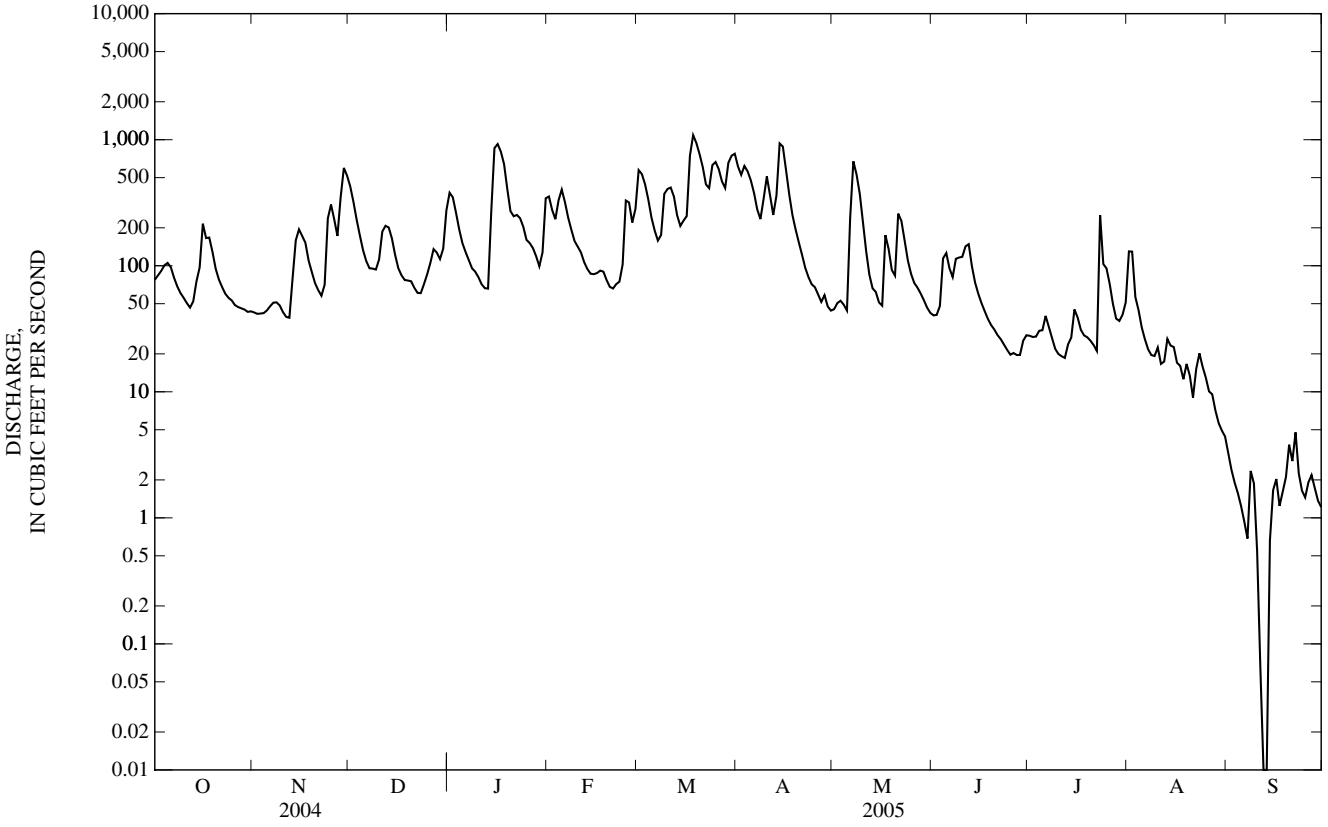
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	143	148	230	385	468	479	325	184	148	171	184	181
MAX	1,202	645	717	999	1,285	1,204	969	835	698	826	783	2,861
(WY)	(1965)	(1948)	(1937)	(1954)	(1948)	(1989)	(1959)	(1989)	(1995)	(1959)	(1931)	(1999)
MIN	6.00	13.0	16.0	24.1	49.6	120	53.3	17.3	7.24	12.4	4.10	1.71
(WY)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(1986)	(1986)	(2002)	(1999)	(1993)	(2005)

02088500 LITTLE RIVER NEAR PRINCETON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	74,288		57,384.90			
ANNUAL MEAN	203		157		254	
HIGHEST ANNUAL MEAN					511	1960
LOWEST ANNUAL MEAN					91.8	1951
HIGHEST DAILY MEAN	1,410	Sep 1	1,090	Mar 18	17,600	Sep 17, 1999
LOWEST DAILY MEAN	20	Jul 22	0.00	Sep 12	0.00	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	27	May 28	0.70	Sep 9	0.02	Aug 11, 2002
MAXIMUM PEAK FLOW			1,120	Mar 18	20,700*	Sep 17, 1999
MAXIMUM PEAK STAGE			7.08	Mar 18	16.58	Sep 17, 1999
INSTANTANEOUS LOW FLOW			0.00*	Sep 12	0.00*	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	0.875		0.678		1.09	
ANNUAL RUNOFF (INCHES)	11.91		9.20		14.85	
10 PERCENT EXCEEDS	534		413		628	
50 PERCENT EXCEEDS	131		81		118	
90 PERCENT EXCEEDS	37		9.8		20	

* See REMARKS.
e Estimated.



02089000 NEUSE RIVER NEAR GOLDSBORO, NC

LOCATION.--Lat 35°20'15", long 77°59'51", Wayne County, Hydrologic Unit 03020202, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mi upstream from Stony Creek, 1.5 mi downstream of Seaboard Coast Line Railroad bridge, 3.2 mi south of Wayne County courthouse in Goldsboro, 4.3 mi downstream of Little River, and 135 mi upstream from mouth.

DRAINAGE AREA.--2,399 mi^2.

PERIOD OF RECORD.--February 1930 to current year.

REVISED RECORDS.--WSP 1333: 1931, 1935. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.95 ft above NGVD of 1929. Prior to July 24, 1931, nonrecording gage at railroad bridge 1.5 mi upstream at 44.95 ft. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 mi upstream at 44.66 ft. Satellite telemetry at station.

REMARKS.--No estimated discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 30,700 ft^3/s, Sept. 27, 1945; gage height: 26.72 ft at site and datum then in use; minimum discharge: 76 ft^3/s, Sept. 26, 1968. Minimum discharge during regulation also occurred Oct. 3, 1985. Minimum discharge for current water year also occurred Sept. 13, 14.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 mi upstream at present datum, from flood profiles of U.S. Army Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum; discharge, 38,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	718	3,180	1,900	2,280	2,440	4,930	957	534	798	2,750	446
2	1,410	719	3,190	2,050	2,360	3,620	5,110	950	568	716	2,370	434
3	1,340	720	3,120	2,000	2,380	3,810	5,160	1,060	621	683	1,910	412
4	1,320	714	2,900	2,030	2,390	3,850	4,810	1,060	878	557	1,440	394
5	1,310	728	2,620	1,910	2,820	3,890	4,350	963	1,140	615	1,100	379
6	1,310	762	2,080	1,770	3,320	3,830	4,250	1,680	1,040	666	868	367
7	1,290	868	1,810	1,650	3,240	3,390	4,220	2,660	924	718	721	357
8	1,170	819	1,750	1,530	2,970	2,920	4,240	3,540	894	634	647	350
9	1,060	769	1,680	1,430	2,760	2,840	4,080	3,400	1,500	518	857	338
10	957	742	1,470	1,350	2,480	3,400	3,760	2,530	2,260	871	1,510	333
11	871	717	1,510	1,280	2,010	3,740	3,900	1,850	1,600	831	2,000	332
12	817	751	2,100	1,250	1,770	3,550	3,830	1,450	1,240	683	2,110	322
13	812	1,170	2,270	1,210	1,460	3,110	3,710	1,310	1,050	579	1,550	314
14	827	1,770	1,960	1,460	1,370	2,780	3,940	1,120	867	521	1,110	487
15	1,620	2,620	1,710	2,700	1,310	2,640	4,530	1,130	743	593	888	516
16	1,980	2,210	2,090	4,450	1,290	2,620	4,810	1,090	654	553	780	502
17	1,610	1,740	2,730	5,040	1,350	2,910	3,920	1,090	589	489	882	479
18	1,340	1,480	2,900	5,370	1,610	4,380	2,900	1,210	526	460	745	434
19	1,160	1,300	2,860	5,330	1,660	5,150	2,400	1,080	466	477	685	436
20	1,010	1,160	2,480	4,950	1,540	5,820	2,080	922	452	620	648	423
21	929	1,180	2,250	4,480	1,300	6,100	1,840	883	461	1,050	558	582
22	875	2,020	2,190	4,210	1,230	5,980	1,660	1,150	447	1,710	474	577
23	837	2,430	2,170	4,080	1,260	5,700	1,470	1,210	417	2,520	454	676
24	817	2,290	1,940	3,840	1,400	5,200	1,370	1,040	388	2,090	734	655
25	779	2,060	1,450	3,460	1,550	4,720	1,290	890	400	1,950	743	521
26	758	2,170	1,460	3,140	2,310	4,790	1,220	781	490	1,590	729	432
27	760	1,830	1,470	2,730	2,420	4,820	1,180	711	587	1,230	670	412
28	742	1,880	1,490	2,280	2,130	4,430	1,080	668	453	884	587	412
29	726	2,490	1,520	1,620	---	3,930	1,050	641	758	847	522	399
30	719	3,250	1,560	1,490	---	4,260	1,010	600	684	885	487	374
31	701	---	1,660	1,650	---	4,670	---	565	---	1,800	478	---
TOTAL	33,357	44,077	65,570	83,640	55,970	125,290	94,100	40,191	23,631	29,138	32,007	13,095
MEAN	1,076	1,469	2,115	2,698	1,999	4,042	3,137	1,296	788	940	1,032	436
MAX	1,980	3,250	3,190	5,370	3,320	6,100	5,160	3,540	2,260	2,520	2,750	676
MIN	701	714	1,450	1,210	1,230	2,440	1,010	565	388	460	454	314

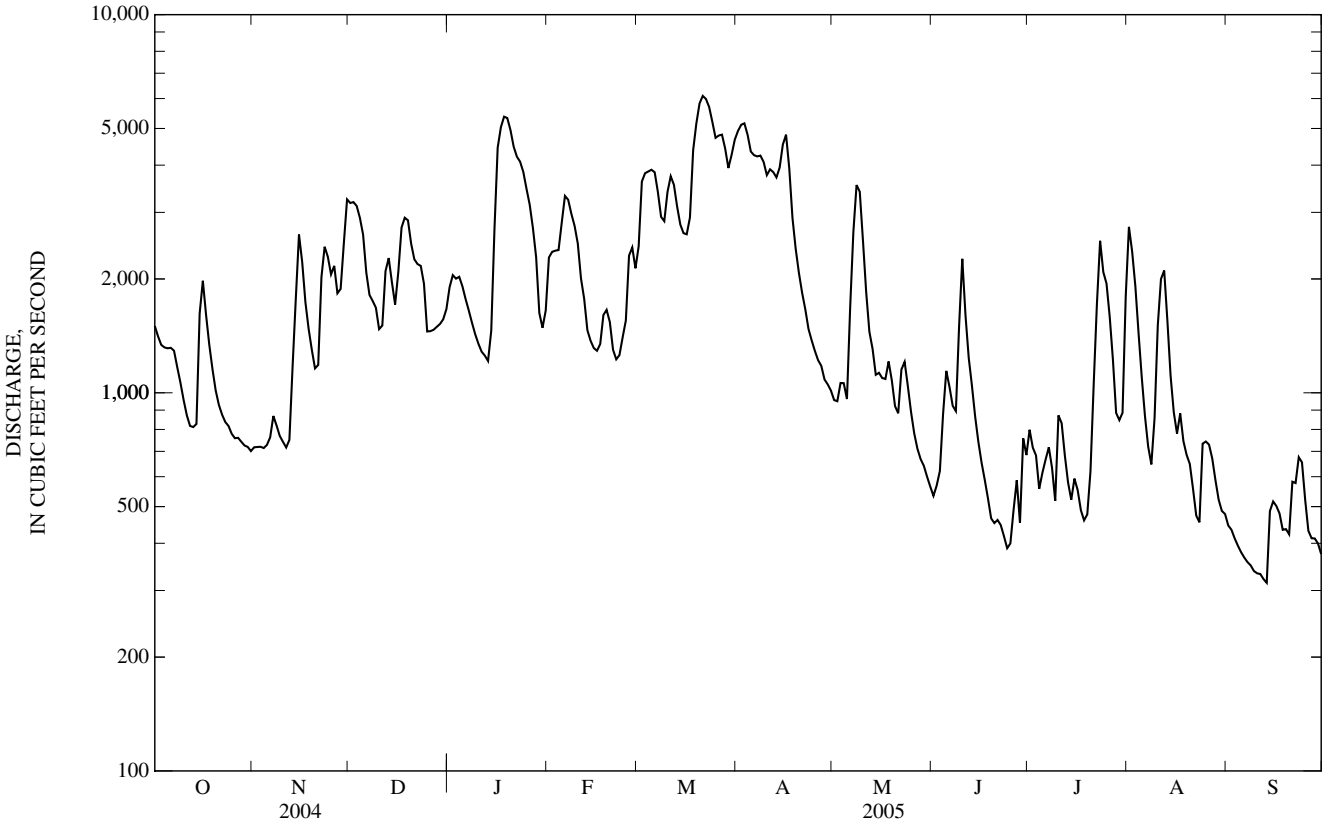
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,* BY WATER YEAR (WY)

MEAN	1,816	1,517	2,097	3,255	4,051	4,979	3,885	1,973	1,539	1,421	1,641	2,232
MAX	11,750	5,287	4,546	6,644	12,080	11,400	7,850	7,276	5,530	4,668	4,761	14,650
(WY)	(2000)	(1996)	(1997)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
MIN	310	326	615	884	1,374	1,286	631	433	342	394	264	246
(WY)	(1984)	(1988)	(2002)	(1986)	(2001)	(2002)	(1986)	(1986)	(1986)	(1987)	(1983)	(1985)

02089000 NEUSE RIVER NEAR GOLDSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005*	
ANNUAL TOTAL	777,837		640,066			
ANNUAL MEAN	2,125		1,754		2,603	
HIGHEST ANNUAL MEAN					4,018	2003
LOWEST ANNUAL MEAN					1,040	2002
HIGHEST DAILY MEAN	7,700	Aug 21	6,100	Mar 21	38,200	Sep 20, 1999
LOWEST DAILY MEAN	551	Jul 19	314	Sep 13	162	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	608	Jul 18	335	Sep 7	172	Sep 15, 1985
MAXIMUM PEAK FLOW			6,130	Mar 21	38,500	Sep 20, 1999
MAXIMUM PEAK STAGE			14.13	Mar 21	28.85	Sep 20, 1999
INSTANTANEOUS LOW FLOW			312*	Sep 12	157*	Sep 19, 1985
10 PERCENT EXCEEDS	4,220		3,890		6,580	
50 PERCENT EXCEEDS	1,680		1,320		1,430	
90 PERCENT EXCEEDS	774		487		417	

* Regulated period only (1983-2005). See REMARKS.



0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'29", long 77°47'40", Lenoir County, Hydrologic Unit 03020202, at downstream side of bridge on Secondary Road 1326, 0.7 mi west of Mays Store, and 1.0 mi downstream of Secondary Road 1002.

DRAINAGE AREA.--57.7 mi^2.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating extension above 3,000 ft^3/s on basis of slope conveyance of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for current water year occurred on several days.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	35	23	58	54	54	74	62	32	23	20	250	16
2	33	22	52	51	49	64	72	31	27	19	181	15
3	32	22	49	48	48	56	77	30	31	27	124	14
4	74	22	46	52	56	50	64	27	30	21	84	14
5	53	23	43	50	53	46	55	26	29	18	63	13
6	42	22	42	47	49	43	49	221	26	17	51	13
7	36	21	41	42	46	41	46	470	44	15	44	13
8	32	27	41	38	44	42	61	296	61	14	38	13
9	30	22	40	38	42	44	58	190	43	14	97	13
10	29	20	45	37	40	41	50	125	39	13	279	13
11	27	20	46	34	37	39	45	91	33	13	136	13
12	26	27	43	42	35	38	41	73	29	13	83	13
13	30	163	42	36	34	37	60	63	26	13	62	14
14	32	120	38	67	34	36	249	55	24	18	51	e29
15	30	84	35	108	36	36	194	50	22	34	47	42
16	30	63	34	84	35	40	129	47	20	19	42	29
17	27	53	34	70	36	156	99	44	19	16	42	25
18	26	47	34	59	34	188	96	40	19	15	39	23
19	27	43	33	52	32	137	77	39	18	66	35	21
20	28	40	33	50	31	128	61	39	17	97	31	21
21	28	39	32	50	31	118	53	40	16	80	27	29
22	27	37	32	48	32	97	48	36	16	48	25	32
23	26	56	33	46	31	124	44	34	15	405	24	25
24	25	73	33	42	46	191	43	32	15	148	33	22
25	25	72	32	42	63	142	39	31	14	80	28	21
26	25	63	38	41	56	111	36	30	15	51	24	20
27	24	48	47	40	49	93	36	28	14	39	21	20
28	23	78	44	37	64	85	33	26	16	32	20	20
29	23	75	43	35	---	81	32	25	26	65	19	18
30	24	65	51	51	---	71	32	24	24	147	18	17
31	24	---	55	61	---	65	---	24	---	85	17	---
TOTAL	953	1,490	1,269	1,552	1,197	2,514	2,041	2,319	751	1,662	2,035	591
MEAN	30.7	49.7	40.9	50.1	42.8	81.1	68.0	74.8	25.0	53.6	65.6	19.7
MAX	74	163	58	108	64	191	249	470	61	405	279	42
MIN	23	20	32	34	31	36	32	24	14	13	17	13
CFSM	0.53	0.86	0.71	0.87	0.74	1.41	1.18	1.30	0.43	0.93	1.14	0.34
IN.	0.61	0.96	0.82	1.00	0.77	1.62	1.32	1.50	0.48	1.07	1.31	0.38

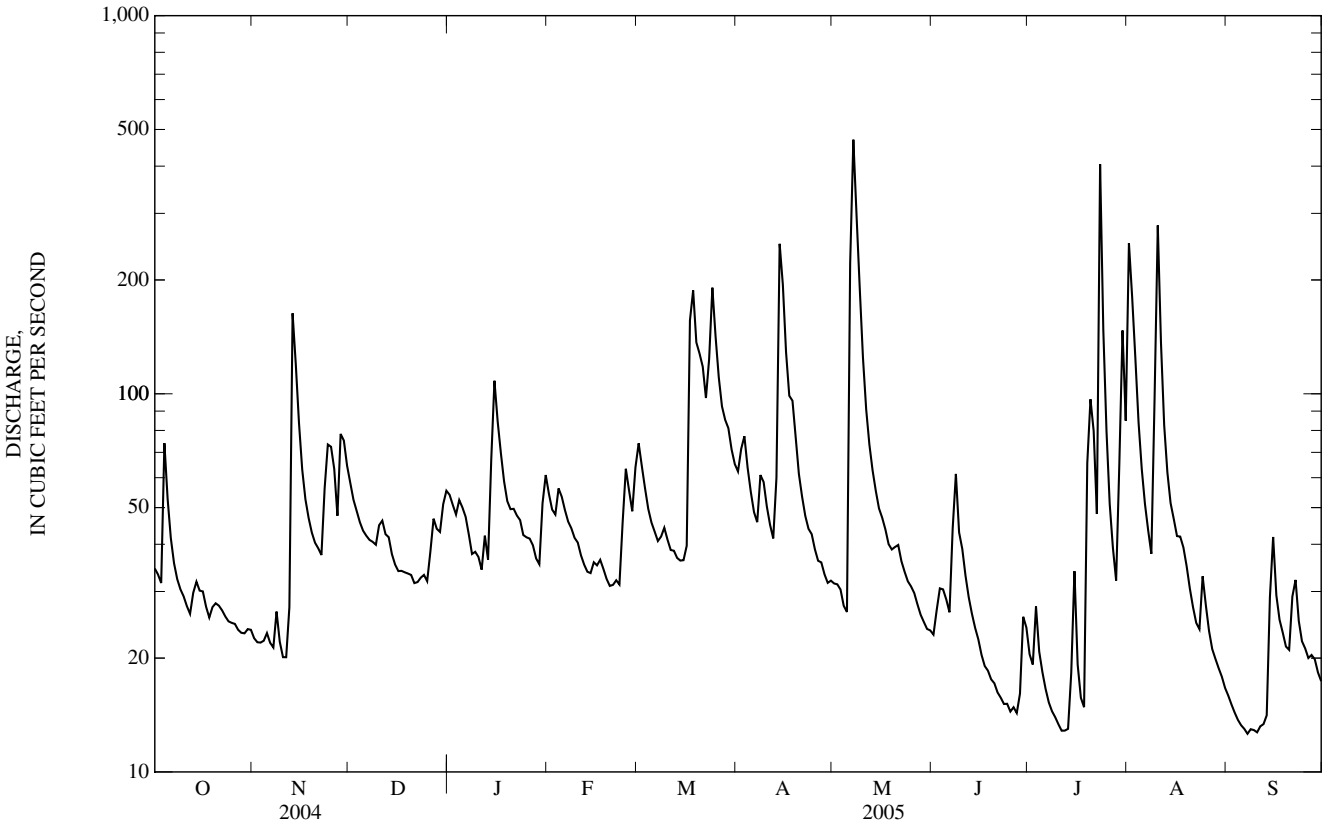
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	60.9	49.4	58.0	91.7	84.9	98.7	76.2	64.2	56.2	49.1	64.0	129
MAX	316	119	148	266	306	230	204	216	201	156	231	1,401
(WY)	(2000)	(1993)	(2004)	(1993)	(1998)	(1998)	(1998)	(1989)	(1995)	(2003)	(1992)	(1999)
MIN	17.2	15.8	21.5	29.0	40.1	35.3	26.5	19.8	13.2	12.5	12.8	17.6
(WY)	(1995)	(1995)	(1995)	(1995)	(2001)	(1988)	(1995)	(1994)	(1994)	(1993)	(1993)	(1994)

0208925200 BEAR CREEK AT MAYS STORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	23,087		18,374			
ANNUAL MEAN	63.1		50.3		73.4	
HIGHEST ANNUAL MEAN					169	1999
LOWEST ANNUAL MEAN					31.7	1988
HIGHEST DAILY MEAN	576	May 4	470	May 7	8,000	Sep 16, 1999
LOWEST DAILY MEAN	17	Aug 11	13	Jul 10	8.4	Aug 18, 1997
ANNUAL SEVEN-DAY MINIMUM	20	Jul 26	13	Sep 5	9.2	Aug 12, 1997
MAXIMUM PEAK FLOW			542	May 7	11,000*	Sep 16, 1999
MAXIMUM PEAK STAGE			7.81	May 7	16.04*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			12*	Jul 11	7.7	Aug 18, 1997
ANNUAL RUNOFF (CFSM)	1.09		0.872		1.27	
ANNUAL RUNOFF (INCHES)	14.88		11.85		17.27	
10 PERCENT EXCEEDS	116		85		142	
50 PERCENT EXCEEDS	45		38		41	
90 PERCENT EXCEEDS	24		18		18	

* See REMARKS.
e Estimated.



02089500 NEUSE RIVER AT KINSTON, NC

LOCATION.--Lat 35°15'28", long 77°35'08", Lenoir County, Hydrologic Unit 03020202, on left bank at Kinston, 600 ft downstream of bridge on State Highway 11, and 90 mi upstream from mouth.

DRAINAGE AREA.--2,692 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1930 to current year.

GAGE.--Water-stage recorder. Datum of gage is 10.90 ft above NGVD of 1929. Prior to Nov. 25, 1934, nonrecording gage at highway bridge 1 mi downstream at 10.10 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 26,000 ft^3/s, Oct. 13, 1964; gage height: 22.86 ft, at site and datum then in use; minimum discharge: 124 ft^3/s, Sept. 26, 1932, at site then in use.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1919 reached a stage of 25.0 ft, at present site and datum; discharge, about 39,000 ft^3/s, from information provided by North Carolina State Highway Commission. Flood in October 1924 reached a stage of 24.7 ft, at present site and datum; discharge, 36,000 ft^3/s, from information provided by North Carolina State Highway Commission. Flood of Sept. 25-26, 1928, reached a stage of 24.2 ft, at present site and datum; discharge, 34,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,860	871	3,110	1,970	2,050	2,730	4,940	1,250	770	868	2,120	607
2	1,750	867	3,410	2,140	2,430	2,700	5,280	1,190	768	869	2,770	585
3	1,670	872	3,460	2,280	2,640	3,220	5,530	1,160	800	870	2,840	563
4	1,680	860	3,450	2,290	2,720	3,730	5,660	1,200	834	847	2,490	543
5	1,660	860	3,330	2,290	2,750	4,010	5,690	1,240	945	727	1,970	521
6	1,560	864	3,080	2,220	2,930	4,140	5,510	1,740	1,180	715	1,520	504
7	1,500	878	2,640	2,090	3,300	4,190	5,220	2,990	1,190	736	1,220	491
8	1,470	946	2,240	1,950	3,500	4,100	5,110	3,490	1,130	773	1,050	482
9	1,360	959	2,080	1,820	3,420	3,710	5,020	3,930	1,090	747	948	469
10	1,260	913	2,020	1,710	3,210	3,340	4,910	4,140	1,430	663	1,170	455
11	1,150	889	1,880	1,620	2,940	3,400	4,670	3,760	2,100	775	1,790	442
12	1,060	910	1,810	1,630	2,500	3,720	4,450	2,650	1,970	884	2,160	439
13	1,030	1,210	2,150	1,600	2,160	3,880	4,600	2,150	1,490	827	2,360	435
14	1,100	1,650	2,440	1,630	1,860	3,710	5,020	1,800	1,230	779	2,000	529
15	1,090	1,850	2,290	1,970	1,700	3,340	5,220	1,550	1,050	745	1,480	682
16	1,560	2,520	2,050	2,750	1,610	3,080	5,310	1,520	916	722	1,160	769
17	2,100	2,560	2,200	3,690	1,570	3,210	5,400	1,450	818	697	999	668
18	1,930	2,170	2,690	4,220	1,580	3,510	5,400	1,370	752	681	989	642
19	1,610	1,830	2,970	4,840	1,760	3,980	4,920	1,420	698	753	919	601
20	1,400	1,590	3,060	5,310	1,860	4,590	3,640	1,370	652	673	819	575
21	1,240	1,430	2,870	5,550	1,800	5,230	2,840	1,250	620	749	785	570
22	1,130	1,380	2,600	5,490	1,610	5,800	2,460	1,160	614	1,160	718	644
23	1,060	2,130	2,500	5,230	1,480	6,320	2,150	1,260	603	2,030	653	679
24	1,020	2,640	2,460	4,920	1,550	6,630	1,910	1,380	581	2,800	649	706
25	990	2,720	2,290	4,650	1,760	6,620	1,750	1,270	551	2,830	740	740
26	960	2,480	1,950	4,320	1,870	6,310	1,620	1,120	542	2,460	824	668
27	931	2,440	1,910	3,920	2,330	5,890	1,520	1,010	596	2,030	816	599
28	924	2,360	1,880	3,440	2,750	5,670	1,450	925	742	1,610	785	553
29	912	2,380	1,850	2,900	---	5,540	1,350	870	743	1,370	724	539
30	894	2,570	1,870	2,310	---	5,220	1,290	832	879	1,630	668	527
31	883	---	1,900	2,050	---	4,900	---	801	---	1,750	630	---
TOTAL	40,744	48,599	76,440	94,800	63,640	136,420	119,840	53,248	28,284	35,770	40,766	17,227
MEAN	1,314	1,620	2,466	3,058	2,273	4,401	3,995	1,718	943	1,154	1,315	574
MAX	2,100	2,720	3,460	5,550	3,500	6,630	5,690	4,140	2,100	2,830	2,840	769
MIN	883	860	1,810	1,600	1,480	2,700	1,290	801	542	663	630	435

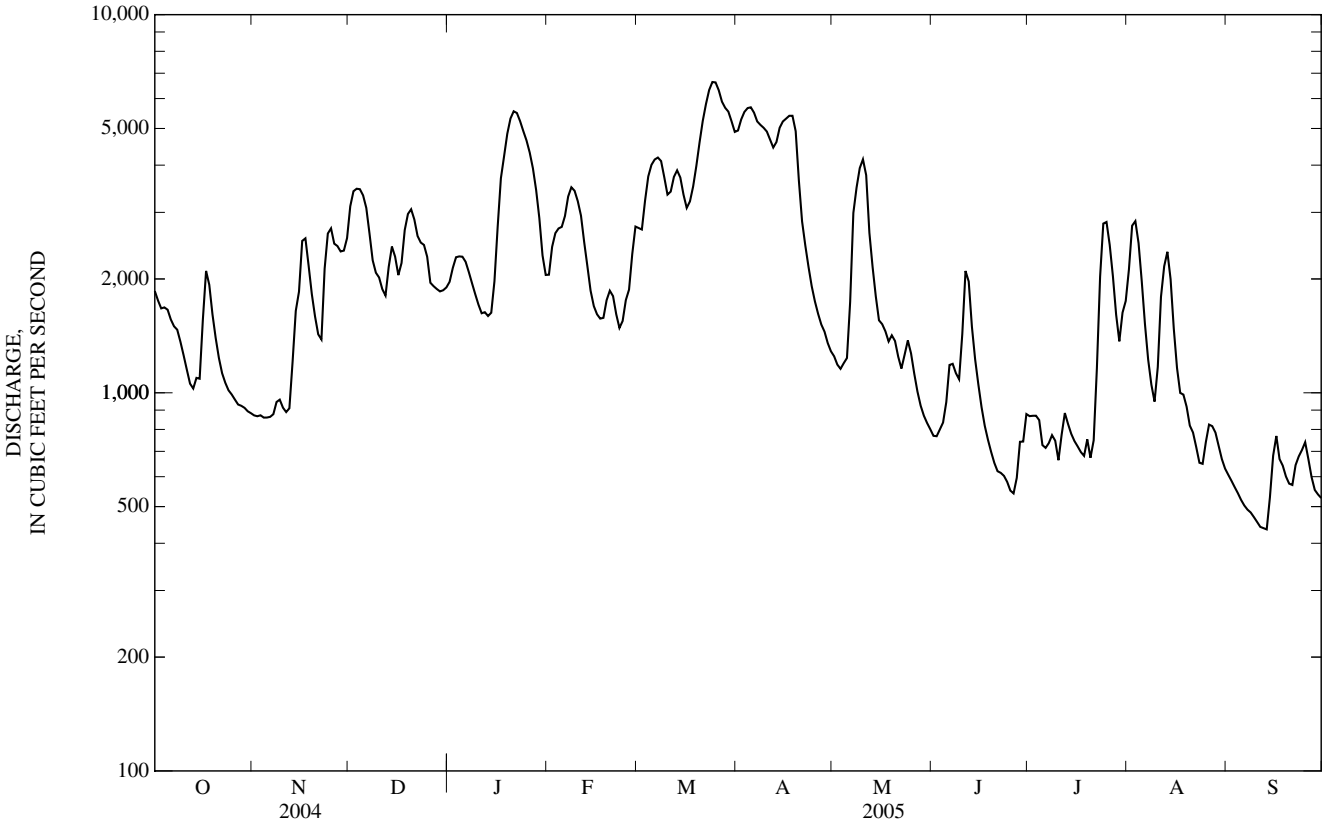
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,* BY WATER YEAR (WY)

MEAN	1,949	1,731	2,411	3,518	4,455	5,510	4,527	2,294	1,848	1,635	1,951	2,536
MAX	14,280	5,643	5,097	7,560	12,600	11,410	9,582	8,773	6,062	5,223	5,565	16,430
(WY)	(2000)	(1996)	(1990)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
MIN	366	430	760	1,181	1,571	1,673	878	563	400	468	314	357
(WY)	(1984)	(1988)	(1988)	(1986)	(2001)	(1988)	(1986)	(1986)	(2002)	(1987)	(1983)	(1985)

02089500 NEUSE RIVER AT KINSTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005*	
ANNUAL TOTAL	927,801		755,778			
ANNUAL MEAN	2,535		2,071		2,807	
HIGHEST ANNUAL MEAN					4,583	2003
LOWEST ANNUAL MEAN					1,204	1988
HIGHEST DAILY MEAN	7,720	Aug 24	6,630	Mar 24	35,800	Sep 23, 1999
LOWEST DAILY MEAN	690	Jul 21	435	Sep 13	200	Sep 20, 1985
ANNUAL SEVEN-DAY MINIMUM	740	Jul 19	459	Sep 7	214	Sep 16, 1985
MAXIMUM PEAK FLOW			6,680	Mar 24	36,300	Sep 22, 1999
MAXIMUM PEAK STAGE			13.67	Mar 24	27.71	Sep 22, 1999
INSTANTANEOUS LOW FLOW			429	Sep 14	196	Sep 20, 1985
10 PERCENT EXCEEDS	4,960		4,590		6,980	
50 PERCENT EXCEEDS	2,120		1,650		1,610	
90 PERCENT EXCEEDS	942		668		512	

* Regulated period only (1983-2005). See REMARKS.



02089500 NEUSE RIVER AT KINSTON, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1955-56, 1959-67, 1973 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: July 1973 to September 1986, March 2002 to July 2004.
WATER TEMPERATURE: October 1949 to September 1950, January 1955 to September 1956, July 1973 to September 1986, March 2002 to May 2003, January to August 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from March 2002 to August 2004. Water-quality monitor from October 1981 to September 1986.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to current year. Station also operated as part of NASQAN network from October 1974 to September 1994. Daily records of specific conductance for January 1955 to September 1956 are available in the files of the USGS Water Science Center, Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	248, August 17, 2002	43, March 28, 1975 (daily)
WATER TEMPERATURE, °C	36.0, July 13, 14, 19, 20, 1986	0.0, February 7, 1978, January 13, 1981 (daily)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
OCT													
26...	1330	9	958	766	8.9	91	7.2	143	16.6	27	33	16.2	10.5
27...	1300	D	928	--	8.7	--	7.1	145	15.9	--	--	--	--
DEC													
14...	1200	9	2,460	767	9.8	88	7.0	130	11.0	40	49	14.6	9.2
FEB													
15...	1100	9	1,700	765	10.8	95	6.8	120	10.0	23	28	13.7	9.1
APR													
28...	1200	9	1,450	763	9.1	96	7.1	126	18.0	21	25	14.4	10.2
JUN													
09...	1315	9	1,080	761	6.8	86	7.0	123	27.5	22	26	12.2	9.3
20...	1300	D	654	--	7.2	--	7.0	152	25.7	--	--	--	--
AUG													
09...	1200	9	939	761	6.8	87	6.9	130	28.2	27	33	13.5	10.2

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)
OCT													
26...	E.03	--	.71	E.004	.07	.90	.029	.078	.7	<.1	.7	5.4	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	<3.6
DEC													
14...	<.04	--	.66	E.004	--	1.16	.043	.121	--	--	--	--	--
FEB													
15...	<.04	--	.62	E.006	--	1.05	.009	.075	--	--	--	--	--
APR													
28...	.05	--	.76	E.004	--	1.18	.017	.110	--	--	--	--	--
JUN													
09...	.05	.74	.75	.010	--	1.22	.046	.132	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	16.9
AUG													
09...	E.03	--	.55	E.004	--	1.12	.056	.145	--	--	--	--	--

02089500 NEUSE RIVER AT KINSTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Peri-phyton biomass ash weight, g/m2 (00572)	Peri-phyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, peri-phyton, number (70950)	Pheo-phytin a, peri-phyton, mg/m2 (62359)	Chloro-phyll a peri-phyton, chromo-fluoro, mg/m2 (70957)	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,6-Di-ethyl-aniline water fltrd 0.7u GF ug/L (82660)	2Chloro -2',6-' diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl -6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Di-chloro-aniline water fltrd, ug/L (61625)	3,5-Di-chloro-aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)
OCT													
26...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	.010	--	<.006
27...	150	155.8	36.3	27	69.0	--	--	--	--	--	--	--	--
DEC													
14...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	.009	--	<.006
FEB													
15...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	.006	--	<.006
APR													
28...	--	--	--	--	--	<.09	<.006	<.005	E.006	<.004	E.010	--	<.006
JUN													
09...	--	--	--	--	--	<.09	<.006	.043	<.006	<.004	<.004	<.004	<.006
20...	71	88.00	243	23	69.1	--	--	--	--	--	--	--	--
AUG													
09...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	<.004	<.006

Date	Aceto-chlor, water, fltrd, ug/L (49260)	Ala-chlor, water, fltrd, ug/L (46342)	alpha-Endo-sulfan, water, fltrd, ug/L (34362)	Atra-zine, water, fltrd, ug/L (39632)	Azin-phos-methyl oxon, water, fltrd, ug/L (61635)	Azin-phos-methyl, water, fltrd 0.7u GF ug/L (82686)	Ben-flur-alin, water, fltrd 0.7u GF ug/L (82673)	Car-baryl, water, fltrd 0.7u GF ug/L (82680)	Carbo-furan, water, fltrd 0.7u GF ug/L (82674)	Chlor-pyrifos oxon, water, fltrd, ug/L (61636)	Chlor-pyrifos water, fltrd, ug/L (38933)	cis-Per-methrin water fltrd 0.7u GF ug/L (82687)	cis-Propi-cona-zole, water, fltrd, ug/L (79846)
OCT													
26...	<.006	.005	--	.007	<.07	<.050	<.010	E.005	--	<.06	<.005	<.006	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	<.006	<.005	--	<.009	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
FEB													
15...	<.006	<.005	--	E.007	<.07	<.050	<.010	E.005	--	<.06	<.005	<.006	--
APR													
28...	<.006	.013	--	.048	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
JUN													
09...	<.006	.023	<.005	.075	<.07	<.050	<.010	<.041	<.020	<.06	<.064	<.006	<.008
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.006	<.005	<.005	.009	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	<.008

Date	Cyana-zine, water, fltrd, ug/L (04041)	Cyflu-thrin, water, fltrd, ug/L (61585)	lambda-Cyhalo-thrin, water, fltrd, ug/L (61595)	Cyper-methrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulf-inyl fipro-nil, water, fltrd, ug/L (62170)	Diaz-inon oxon, water, fltrd, ug/L (61638)	Diazi-non, water, fltrd, ug/L (39572)	Dicro-tophos, water fltrd, ug/L (38454)	Diel-drin, water, fltrd, ug/L (39381)	Dimeth-oate, water, fltrd 0.7u GF ug/L (82662)	Disulf-oton sulfone water, fltrd, ug/L (61640)	Disul-foton, water, fltrd 0.7u GF ug/L (82677)
OCT													
26...	--	<.008	--	<.009	<.003	E.006	<.01	<.005	<.08	<.009	<.006	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	--	<.008	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	--	--
FEB													
15...	--	<.027	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	--	--
APR													
28...	--	<.027	--	<.009	<.003	E.005	<.01	<.005	<.08	<.009	<.006	--	--
JUN													
09...	<.018	<.027	<.009	<.009	<.003	<.012	--	<.005	<.08	<.009	<.006	<.01	<.02
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.018	<.027	<.009	<.009	<.003	E.005	--	<.005	<.08	<.009	<.006	<.01	<.02

02089500 NEUSE RIVER AT KINSTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)
OCT													
26...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.007	<.024	E.014	<.003
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	--	--	<.0020	<.004	--	<.049	--	<.03	<.029	<.013	<.024	<.016	<.003
FEB													
15...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024	<.016	--
APR													
28...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.006	<.024	E.008	--
JUN													
09...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	E.005	<.024	E.006	--

Date	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)
OCT													
26...	<.003	<.013	<.387	<.003	<.030	<.027	<.050	<.006	<.03	<.015	.010	<.006	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.006	<.006	--
FEB													
15...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.006	<.006	--
APR													
28...	<.003	<.013	<.538	<.007	<.030	<.027	<.007	<.006	<.03	<.015	.019	<.006	--
JUN													
09...	<.003	<.076	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.044	<.006	<.003
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.030	<.006	<.003

Date	Myclobutanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)
OCT													
26...	<.008	--	<.022	<.10	<.011	<.05	<.008	E.01	.007	<.004	--	--	.013
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	<.008	--	<.022	<.10	<.011	<.05	<.008	.01	<.005	<.004	--	--	.058
FEB													
15...	<.008	--	<.022	<.10	<.011	<.05	<.008	E.01	<.005	<.004	--	--	.173
APR													
28...	<.008	--	<.022	<.10	<.011	<.05	<.008	.01	.005	<.004	--	--	.080
JUN													
09...	<.008	<.007	<.022	<.10	<.011	<.05	<.008	<.01	<.005	<.004	<.011	<.02	.046
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.008	<.007	<.022	<.10	<.011	--	<.008	.04	.025	<.004	<.011	<.02	.022

02089500 NEUSE RIVER AT KINSTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Tribuphos, water, fltrd, ug/L (61610)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT													
26...	<.02	--	<.07	<.02	.01	--	--	--	<.009	<.01	79	44	114
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
14...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	95	29	193
FEB													
15...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	89	24	110
APR													
28...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	90	31	121
JUN													
09...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	84	24	70
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	80	18	46

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water sample.
D-- Plant tissue sample.

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC

LOCATION.--Lat 35°41'28", long 78°06'35", Wilson County, Hydrologic Unit 03020203, on right bank 250 ft upstream from bridge on State Highway 581, 1.0 mi downstream of Buckhorn Reservoir, 1.0 mi upstream from Buckhorn Branch, and 6.5 mi northwest of Lucama.

DRAINAGE AREA.--161 mi^2.

PERIOD OF RECORD.--September 1964 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 116.83 ft above NGVD of 1929 (levels by North Carolina Geodetic Survey). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Since September 1976, some regulation at low flow by Buckhorn Reservoir (station 02090370) 1 mi upstream. Maximum discharge for period of record, from rating curve extended above 6,000 ft^3/s, on basis of flow over dam measurement of peak flow; maximum gage height from flood marks. Minimum discharge for period of record also occurred Sept. 10-14, 1976, due to regulation. Minimum discharge for current year due to regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	43	320	207	239	427	349	61	19	22	22	29
2	183	46	183	208	197	428	363	55	31	21	21	29
3	165	43	159	191	183	292	445	50	75	21	20	29
4	144	58	126	178	234	187	373	45	120	21	20	29
5	114	74	110	172	238	161	281	37	111	21	20	29
6	82	43	100	174	208	144	207	197	90	21	20	29
7	62	43	99	159	176	121	160	459	93	21	19	29
8	50	42	98	143	156	242	156	469	92	23	19	29
9	45	42	91	122	143	184	223	282	81	21	19	29
10	43	38	109	110	194	226	437	163	75	20	19	29
11	37	41	143	100	120	210	386	119	61	20	19	29
12	39	62	153	96	91	167	227	91	48	20	19	29
13	79	129	169	94	76	128	437	80	42	21	19	29
14	137	157	129	363	91	145	688	73	35	20	19	25
15	319	154	77	985	95	143	530	75	32	20	19	16
16	312	125	60	1,140	102	164	320	134	31	21	19	16
17	193	102	62	704	107	580	203	194	11	21	19	16
18	128	87	67	365	101	896	158	156	6.1	21	19	16
19	108	77	94	240	54	791	134	137	5.8	21	19	16
20	89	72	e160	195	58	533	120	499	4.2	21	19	19
21	72	66	e90	181	74	332	100	506	2.3	21	19	22
22	62	59	34	177	74	222	81	276	19	22	19	17
23	56	108	68	262	75	279	108	163	22	22	19	17
24	50	213	92	111	117	500	84	120	23	21	19	17
25	50	341	93	112	167	550	51	81	36	21	18	17
26	54	181	150	120	174	407	29	75	36	21	18	17
27	49	142	145	120	150	265	56	45	35	21	18	17
28	45	326	123	110	224	328	53	43	35	21	17	17
29	44	446	116	102	---	630	33	37	28	22	16	17
30	51	417	120	152	---	707	48	26	21	22	16	27
31	54	---	165	222	---	545	---	20	---	22	24	---
TOTAL	3,035	3,777	3,705	7,615	3,918	10,934	6,840	4,768	1,320.4	654	592	686
MEAN	97.9	126	120	246	140	353	228	154	44.0	21.1	19.1	22.9
MAX	319	446	320	1,140	239	896	688	506	120	23	24	29
MIN	37	38	34	94	54	121	29	20	2.3	20	16	16
CFSM	0.61	0.78	0.74	1.53	0.87	2.19	1.42	0.96	0.27	0.13	0.12	0.14
IN.	0.70	0.87	0.86	1.76	0.91	2.53	1.58	1.10	0.31	0.15	0.14	0.16

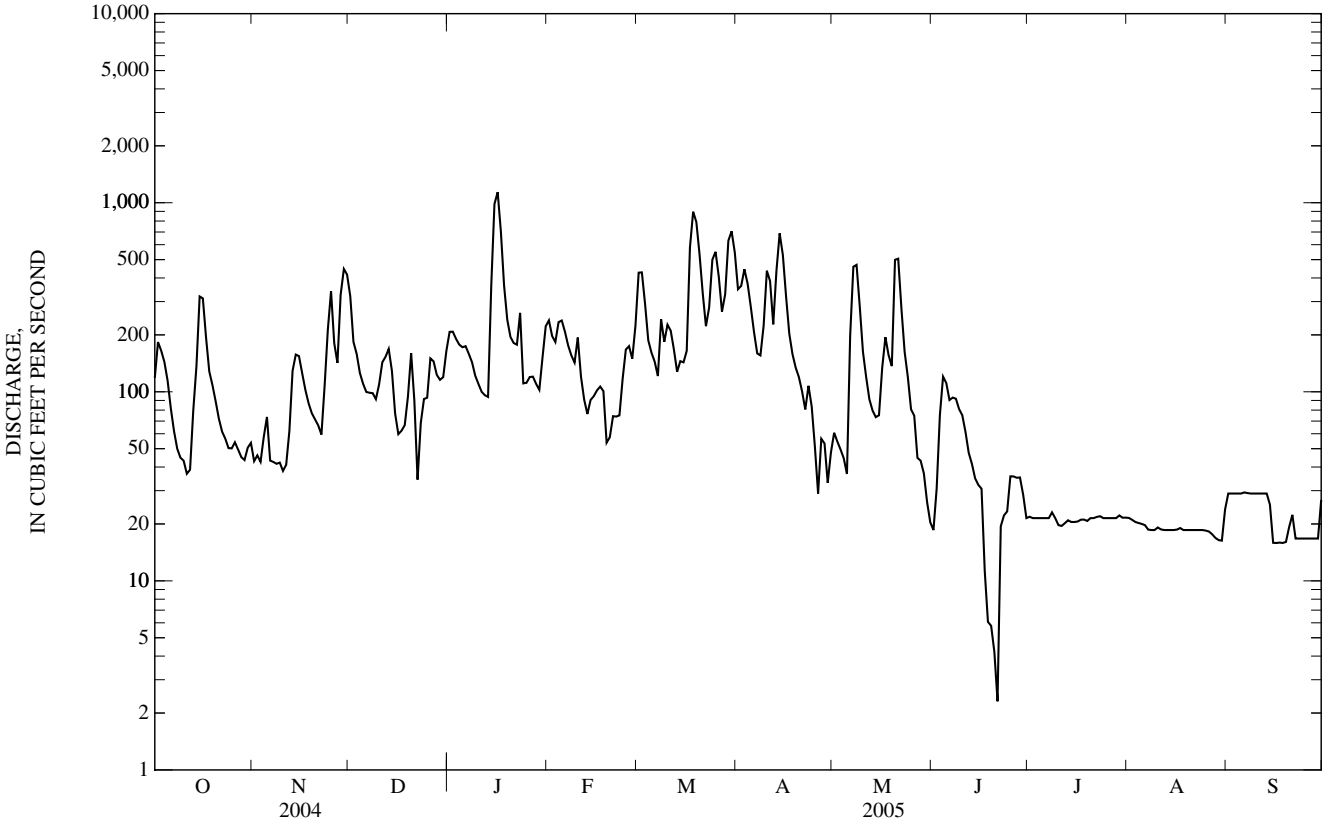
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	84.1	91.6	139	258	301	336	204	120	93.8	85.7	108	105
MAX	644	304	404	690	633	803	701	537	359	624	512	1,326
(WY)	(1965)	(1996)	(1973)	(1987)	(1998)	(1989)	(1987)	(1989)	(1965)	(1984)	(1986)	(1999)
MIN	2.05	2.76	21.2	39.4	87.5	67.7	24.7	8.08	10.4	3.96	3.18	2.52
(WY)	(1981)	(1974)	(1966)	(1981)	(1986)	(1981)	(1986)	(1981)	(1970)	(1981)	(1980)	(1968)

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	56,840		47,844.4			
ANNUAL MEAN	155		131		159	
HIGHEST ANNUAL MEAN					299	2003
LOWEST ANNUAL MEAN					35.5	1981
HIGHEST DAILY MEAN	2,620	Sep 1	1,140	Jan 16	13,000	Sep 17, 1999
LOWEST DAILY MEAN	16	May 30	2.3	Jun 21	0.04	Sep 9, 1976
ANNUAL SEVEN-DAY MINIMUM	22	May 16	10	Jun 17	0.04	Sep 8, 1976
MAXIMUM PEAK FLOW			1,230	Jan 16	24,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			8.42	Jan 16	24.82*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			0.78*	Jun 21	0.04*	Sep 9, 1976
ANNUAL RUNOFF (CFSM)	0.965		0.814		0.988	
ANNUAL RUNOFF (INCHES)	13.13		11.05		13.42	
10 PERCENT EXCEEDS	336		322		384	
50 PERCENT EXCEEDS	96		81		70	
90 PERCENT EXCEEDS	40		19		11	

* See REMARKS.
e Estimated.



0209050750 HOMINY SWAMP AT FOREST HILL ROAD NEAR WILSON, NC

LOCATION.--Lat 35°44'32", long 77°57'07", Wilson County, Hydrologic Unit 03020203, at bridge culvert on Forest Hills Road (Secondary Road 1165), 2.5 mi northwest of Wilson.

DRAINAGE AREA.--1.77 mi^2.

PERIOD OF RECORD.--October 2003 to current year.

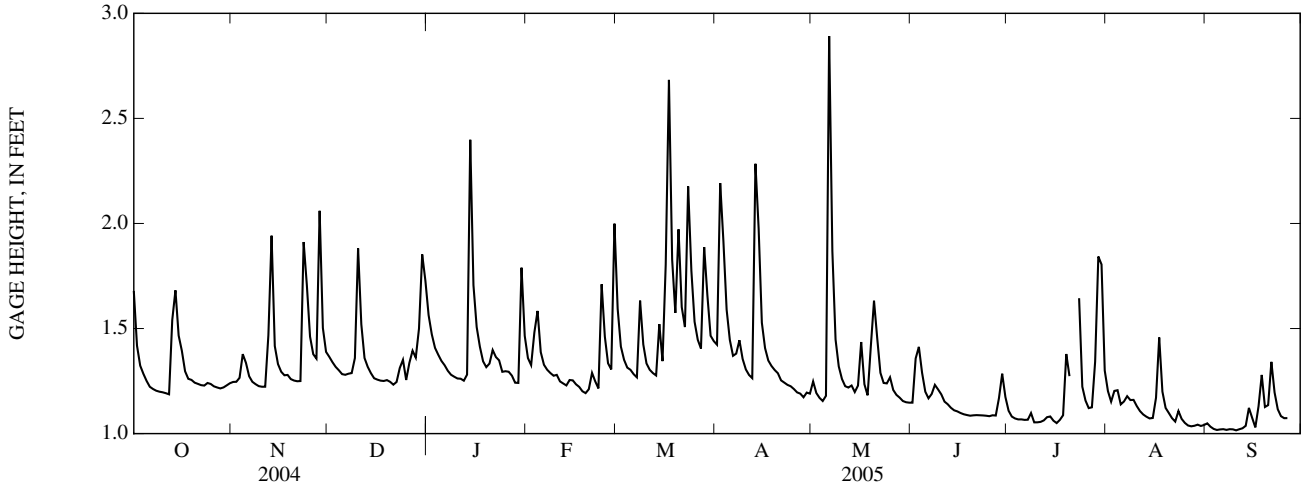
GAGE.--Water-stage recorder. Datum of gage is 109.89 ft above NAVD of 1988. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.55 ft, May 22, 2004; minimum gage height, 1.01 ft, Sept. 3-12.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 5.54 ft, July 22; minimum gage height, 1.01 ft, Sept. 3-12.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.68	1.25	1.37	1.56	1.36	1.59	1.42	1.25	1.15	1.11	1.20	1.05
2	1.42	1.25	1.34	1.47	1.33	1.41	2.19	1.19	1.36	1.08	1.15	1.03
3	1.32	1.27	1.32	1.41	1.48	1.35	1.92	1.17	1.41	1.07	1.20	1.02
4	1.28	1.38	1.30	1.38	1.58	1.31	1.59	1.16	1.29	1.07	1.21	1.02
5	1.25	1.34	1.28	1.35	1.39	1.30	1.45	1.18	1.20	1.07	1.14	1.02
6	1.22	1.27	1.28	1.33	1.33	1.28	1.37	2.89	1.17	1.07	1.15	1.02
7	1.21	1.25	1.28	1.30	1.30	1.27	1.38	1.87	1.19	1.07	1.18	1.02
8	1.20	1.24	1.29	1.28	1.29	1.63	1.44	1.45	1.23	1.10	1.16	1.02
9	1.20	1.23	1.36	1.27	1.28	1.42	1.36	1.32	1.21	1.05	1.16	1.02
10	1.20	1.22	1.88	1.26	1.28	1.33	1.31	1.26	1.19	1.05	1.13	1.02
11	1.19	1.22	1.52	1.26	1.25	1.30	1.28	1.23	1.15	1.06	1.11	1.02
12	1.19	1.47	1.36	1.25	1.24	1.29	1.26	1.22	1.14	1.06	1.09	1.03
13	1.54	1.94	1.32	1.28	1.23	1.28	2.28	1.23	1.12	1.08	1.08	1.04
14	1.68	1.42	1.29	2.40	1.25	1.52	1.97	1.20	1.11	1.08	1.07	1.12
15	1.47	1.33	1.26	1.71	1.25	1.34	1.53	1.23	1.11	1.06	1.07	1.08
16	1.39	1.29	1.26	1.51	1.23	1.80	1.41	1.44	1.10	1.05	1.17	1.03
17	1.30	1.28	1.25	1.41	1.22	2.68	1.35	1.23	1.09	1.07	1.46	1.13
18	1.26	1.28	1.25	1.34	1.20	1.83	1.32	1.18	1.09	1.09	1.20	1.28
19	1.26	1.26	1.25	1.32	1.19	1.57	1.30	1.41	1.09	1.38	1.12	1.13
20	1.24	1.25	1.25	1.33	1.21	1.97	1.29	1.63	1.09	1.27	1.10	1.14
21	1.24	1.25	1.23	1.40	1.29	1.60	1.25	1.45	1.09	---	1.07	1.34
22	1.23	1.25	1.25	1.36	1.25	1.51	1.24	1.29	1.09	---	1.06	1.20
23	1.23	1.91	1.31	1.35	1.22	2.18	1.23	1.24	1.09	1.64	1.11	1.12
24	1.24	1.71	1.35	1.29	1.71	1.78	1.23	1.24	1.09	1.22	1.07	1.08
25	1.24	1.46	1.26	1.30	1.46	1.53	1.21	1.27	1.08	1.16	1.05	1.07
26	1.22	1.38	1.34	1.29	1.33	1.45	1.20	1.21	1.09	1.12	1.04	1.07
27	1.22	1.36	1.39	1.28	1.31	1.40	1.19	1.18	1.09	1.13	1.03	---
28	1.21	2.06	1.36	1.24	2.00	1.89	1.17	1.17	1.17	1.34	1.04	---
29	1.22	1.50	1.50	1.24	---	1.66	1.20	1.16	1.28	1.84	1.04	---
30	1.23	1.39	1.85	1.79	---	1.47	1.19	1.15	1.17	1.80	1.04	---
31	1.24	---	1.73	1.47	---	1.44	---	1.15	---	1.30	1.04	---
MEAN	1.29	1.39	1.36	1.40	1.34	1.56	1.42	1.33	1.16	---	1.12	---
MAX	1.68	2.06	1.88	2.40	2.00	2.68	2.28	2.89	1.41	---	1.46	---
MIN	1.19	1.22	1.23	1.24	1.19	1.27	1.17	1.15	1.08	---	1.03	---



02091000 NAHUNTA SWAMP NEAR SHINE, NC

LOCATION.--Lat 35°29'20", long 77°48'22", Greene County, Hydrologic Unit 03020203, on right bank 10 ft downstream of bridge on Secondary Road 1058, 2 mi upstream from Appletree Swamp, 3.5 mi north of Shine, and 8 mi northwest of Snow Hill.

DRAINAGE AREA.--80.4 mi^2.

PERIOD OF RECORD.--April 1954 to current year. Monthly discharges only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 50.74 ft above NGVD of 1929. Prior to Apr. 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record, on basis of slope conveyances measurement of peak flow; gage height from floodmarks. Minimum discharge for period of record also occurred Oct. 8, 1954, Aug. 11-15, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	18	51	76	60	97	70	29	15	19	382	8.1
2	31	18	46	67	52	73	85	29	20	16	63	7.7
3	31	18	42	59	48	58	120	26	27	13	36	7.3
4	31	19	39	55	76	52	81	24	32	12	27	7.0
5	32	23	36	50	69	49	63	23	26	11	21	6.7
6	29	22	35	47	58	49	55	343	23	10	18	6.4
7	25	21	e34	46	53	48	52	494	28	9.6	17	6.8
8	22	20	e33	42	49	49	80	202	120	9.2	15	6.5
9	21	19	e32	39	47	61	70	107	58	8.6	90	6.4
10	20	20	56	e35	47	56	55	75	63	8.0	326	6.3
11	19	20	58	e33	54	50	49	56	35	8.2	87	6.1
12	18	32	47	e32	41	47	44	47	25	7.9	36	5.8
13	18	179	41	e31	38	44	149	42	21	7.9	23	5.9
14	25	73	36	122	39	48	368	40	19	9.1	19	21
15	27	46	32	231	44	56	197	37	17	9.2	16	65
16	25	37	e31	103	42	58	111	39	15	8.7	14	28
17	22	32	e29	75	42	304	84	37	13	7.9	48	15
18	20	e31	e28	61	37	274	72	31	12	7.8	35	32
19	19	33	e27	54	35	151	64	29	12	12	22	24
20	19	e31	e26	54	34	113	57	32	11	35	17	16
21	21	e30	e25	60	36	93	50	35	12	21	14	30
22	22	e29	e24	58	37	79	45	29	10	13	12	23
23	21	54	e25	56	36	158	42	25	9.3	230	11	17
24	21	86	38	49	67	197	39	23	8.9	131	11	14
25	19	61	e32	48	97	117	35	22	8.5	33	10	12
26	19	47	39	48	67	90	32	21	8.4	19	9.7	11
27	19	39	51	46	54	79	34	19	8.8	14	9.5	11
28	20	109	42	41	76	86	31	18	10	11	10	11
29	20	93	40	39	---	107	29	17	40	23	9.3	10
30	18	61	53	60	---	83	29	16	34	109	9.1	8.9
31	18	---	77	73	---	69	---	15	---	110	8.6	---
TOTAL	704	1,321	1,205	1,890	1,435	2,895	2,292	1,982	741.9	944.1	1,426.2	435.9
MEAN	22.7	44.0	38.9	61.0	51.2	93.4	76.4	63.9	24.7	30.5	46.0	14.5
MAX	32	179	77	231	97	304	368	494	120	230	382	65
MIN	18	18	24	31	34	44	29	15	8.4	7.8	8.6	5.8
CFSM	0.28	0.55	0.48	0.76	0.64	1.16	0.95	0.80	0.31	0.38	0.57	0.18
IN.	0.33	0.61	0.56	0.87	0.66	1.34	1.06	0.92	0.34	0.44	0.66	0.20

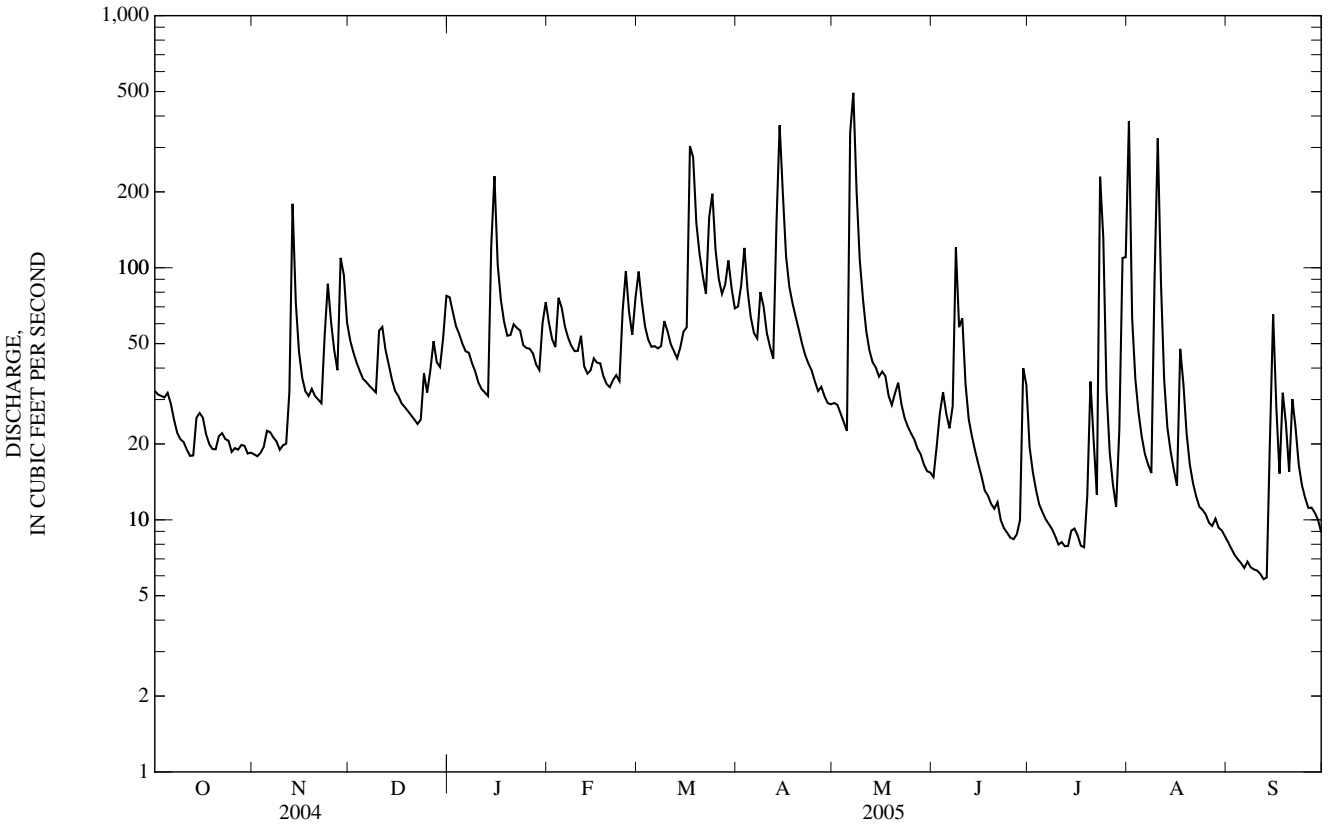
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	53.1	55.7	70.5	116	138	142	102	61.0	51.2	58.0	67.5	79.2
MAX	473	253	184	261	327	311	252	277	243	395	360	1,083
(WY)	(1965)	(1978)	(1958)	(1993)	(1998)	(1983)	(1974)	(1989)	(1995)	(1965)	(1974)	(1999)
MIN	2.26	11.2	19.5	29.4	34.6	33.7	19.1	10.8	5.35	3.10	4.22	2.58
(WY)	(1955)	(1987)	(2002)	(2001)	(1988)	(1986)	(1986)	(1986)	(1986)	(1987)	(2002)	(1954)

02091000 NAHUNTA SWAMP NEAR SHINE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	20,243.3		17,272.1			
ANNUAL MEAN	55.3		47.3		83.5	
HIGHEST ANNUAL MEAN					150	1965
LOWEST ANNUAL MEAN					22.9	1986
HIGHEST DAILY MEAN	560	May 3	494	May 7	7,000	Sep 17, 1999
LOWEST DAILY MEAN	8.6	Aug 12	5.8	Sep 12	1.0	Oct 7, 1954
ANNUAL SEVEN-DAY MINIMUM	12	Aug 6	6.3	Sep 7	1.1	Aug 9, 2002
MAXIMUM PEAK FLOW			699	Aug 1	23,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			7.99	Aug 1	21.00*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			5.7	Sep 12	1.0	Oct 7, 1954
ANNUAL RUNOFF (CFSM)	0.688		0.589		1.04	
ANNUAL RUNOFF (INCHES)	9.37		7.99		14.11	
10 PERCENT EXCEEDS	105		86		175	
50 PERCENT EXCEEDS	39		32		44	
90 PERCENT EXCEEDS	19		9.9		11	

* See REMARKS.
e Estimated.



02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'57", Greene County, Hydrologic Unit 03020203, on left bank at bridge on State Highway 123 at Hookerton, and 2.2 mi upstream from Wheat Swamp Creek.

DRAINAGE AREA.--733 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1928 to current year.

REVISED RECORDS.--WSP 1333: 1903-35. WSP 1383: Drainage area. WSP 1503: 1951. WSP 1723: 1932. WDR NC-90-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 14.85 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Nov. 26, 1934, nonrecording gage at site 1,400 ft upstream and Nov. 27, 1934, to Sept. 30, 1987, water-stage recorder at site 0.3 mi upstream at present datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Buckhorn Reservoir (station 02090370) since September 1976. Maximum gage height for period of record from high-water mark inside gage house. Minimum discharge for current water year occurred Sept. 14.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 23.3 ft, from floodmark; high water of autumn 1924 was about 0.1 ft lower, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	411	193	862	633	629	802	1,350	302	195	234	1,030	57
2	406	190	909	710	704	845	1,360	291	193	214	896	53
3	403	189	952	775	757	901	1,430	277	202	183	553	50
4	402	190	932	822	792	970	1,450	271	222	155	329	47
5	409	191	831	836	804	1,010	1,440	263	239	127	236	43
6	416	195	687	800	817	1,010	1,450	493	263	127	183	41
7	396	205	563	735	836	904	1,500	1,190	364	117	159	40
8	363	211	486	661	839	747	1,520	1,440	435	121	138	41
9	322	211	444	598	799	636	1,410	1,640	496	111	139	41
10	284	198	445	547	731	610	1,230	1,800	568	94	363	42
11	253	185	486	501	652	655	1,040	1,950	584	86	464	41
12	227	184	542	460	600	703	880	1,970	596	78	335	40
13	221	323	587	426	560	705	884	1,750	523	80	211	39
14	216	497	602	458	524	675	1,320	1,230	415	116	157	47
15	228	603	583	684	474	631	1,500	802	328	143	129	78
16	317	629	537	841	439	605	1,730	566	262	150	111	110
17	390	610	487	1,000	423	835	2,050	473	216	146	124	121
18	470	564	429	1,160	420	1,050	2,420	438	184	124	131	107
19	533	492	378	1,350	410	1,240	2,560	432	159	96	240	95
20	519	419	350	1,520	396	1,470	2,360	459	137	85	244	105
21	437	364	335	1,620	383	1,760	1,800	483	122	119	187	111
22	359	325	334	1,570	365	2,060	1,310	514	108	156	143	101
23	310	329	354	1,380	349	2,340	938	604	97	392	116	101
24	279	397	343	1,060	369	2,510	683	705	86	498	102	106
25	258	513	324	922	454	2,380	559	737	78	476	91	91
26	244	633	349	798	568	2,100	472	599	75	314	84	74
27	231	711	408	714	654	1,850	426	445	72	217	77	65
28	220	786	461	620	736	1,730	382	362	71	158	71	57
29	213	829	507	551	---	1,650	340	297	105	146	67	50
30	207	842	546	536	---	1,550	312	252	189	207	63	46
31	200	---	574	568	---	1,430	---	218	---	402	61	---
TOTAL	10,144	12,208	16,627	25,856	16,484	38,364	38,106	23,253	7,584	5,672	7,234	2,040
MEAN	327	407	536	834	589	1,238	1,270	750	253	183	233	68.0
MAX	533	842	952	1,620	839	2,510	2,560	1,970	596	498	1,030	121
MIN	200	184	324	426	349	605	312	218	71	78	61	39
CFSM	0.45	0.56	0.73	1.14	0.80	1.69	1.73	1.02	0.34	0.25	0.32	0.09
IN.	0.51	0.62	0.84	1.31	0.84	1.95	1.93	1.18	0.38	0.29	0.37	0.10

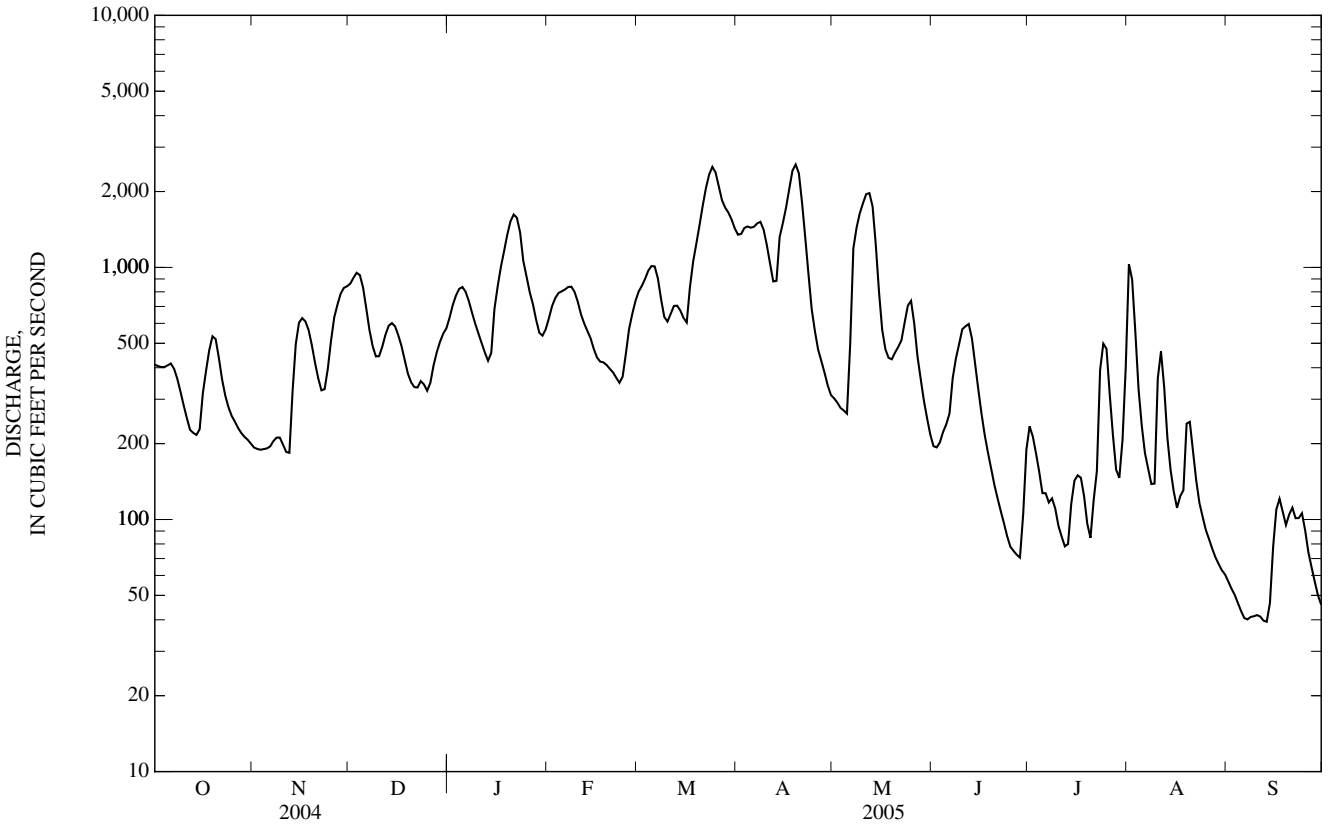
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	504	474	689	1,109	1,370	1,443	1,038	596	461	544	632	634
MAX	4,798	2,150	2,349	2,626	4,316	3,491	2,752	3,363	1,770	2,203	2,422	8,825
(WY)	(2000)	(1948)	(1949)	(1993)	(1948)	(1989)	(1989)	(1989)	(1995)	(1929)	(1960)	(1999)
MIN	20.3	41.1	64.7	92.5	239	382	202	82.9	38.5	63.3	37.2	24.9
(WY)	(1955)	(1955)	(1934)	(1934)	(1934)	(1981)	(1986)	(1986)	(1986)	(1952)	(1954)	(1954)

02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	248,987		203,572			
ANNUAL MEAN	680		558		779	
HIGHEST ANNUAL MEAN					1,422	1960
LOWEST ANNUAL MEAN					242	1951
HIGHEST DAILY MEAN	3,380	May 8	2,560	Apr 19	31,500	Sep 19, 1999
LOWEST DAILY MEAN	106	Jul 23	39	Sep 13	15	Oct 28, 1933
ANNUAL SEVEN-DAY MINIMUM	136	Jul 18	41	Sep 7	16	Oct 8, 1954
MAXIMUM PEAK FLOW			2,590	Apr 19	31,900	Sep 18, 1999
MAXIMUM PEAK STAGE			12.73	Apr 19	28.28*	Sep 18, 1999
INSTANTANEOUS LOW FLOW			38*	Sep 13	15	Oct 28, 1933
ANNUAL RUNOFF (CFSM)	0.928		0.761		1.06	
ANNUAL RUNOFF (INCHES)	12.64		10.33		14.44	
10 PERCENT EXCEEDS	1,400		1,370		1,890	
50 PERCENT EXCEEDS	516		420		445	
90 PERCENT EXCEEDS	191		91		87	

* See REMARKS.



02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950, 1969-72, 1979 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March 1979 to September 1984, April 2002 to August 2004.
WATER TEMPERATURE: October 1949 to September 1950, March 1979 to September 1984, April 2002 to August 2004.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from April 2002 to August 2004. Water-quality monitor from October 1981 to September 1984.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to current year. Station also operated as part of NASQAN network from March 1979 to September 1993. Miscellaneous chemical data published for water years 1945, 1947-49, 1955-67.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	307, August 29, 2002	41, June 11, 1979 (daily)
WATER TEMPERATURE, °C	31.8, August 25, 2002	1.0, January 13, 14, 1981 (daily), January 18, 1982

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Chloride, water, fltrd, mg/L (00940)	Sulfate water, fltrd, mg/L (00945)
OCT													
26...	1100	9	244	768	8.1	81	6.8	96	15.6	20	24	11.4	6.7
DEC													
15...	0930	9	588	775	9.8	84	6.8	95	9.1	15	18	12.5	6.0
FEB													
15...	1330	9	471	765	10.8	94	6.4	101	9.3	13	15	13.6	7.0
APR													
28...	1330	9	380	763	7.8	81	6.4	101	17.1	14	18	12.5	7.5
JUN													
09...	1100	9	490	763	5.6	68	6.8	90	25.5	17	20	9.88	6.0
20...	1545	D	135	--	6.2	--	6.3	105	25.2	--	--	--	--
AUG													
09...	1045	9	123	762	5.6	70	6.7	111	27.0	20	25	11.3	8.9

Date	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Total nitrogen, wat unf by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Biomass periphyton, ashfree drymass g/m2 (49954)
OCT													
26...	E.03	--	.62	E.004	.03	1.15	.036	.086	.4	<.1	.4	8.5	--
DEC													
15...	<.04	--	.44	E.005	--	.95	.038	.074	--	--	--	--	--
FEB													
15...	E.03	.71	.72	.010	--	1.25	.014	.052	--	--	--	--	--
APR													
28...	.07	.83	.84	.011	--	1.48	.042	.112	--	--	--	--	--
JUN													
09...	E.03	.60	.61	.009	--	1.25	.044	.124	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	6.1
AUG													
09...	.09	--	.73	E.006	--	1.23	.061	.195	--	--	--	--	--

02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Periphyton biomass ash weight, g/m2 (00572)	Periphyton biomass dry weight, g/m2 (00573)	Biomass chloro-phyll ratio, periphyton, number (70950)	Pheophytin a, periphyton, mg/m2 (62359)	Chloro-phyll a periphyton, chromo-fluoro, mg/m2 (70957)	1-Naphthol, water, fltrd 0.7u GF ug/L (49295)	2,6-Diethyl-aniline water fltrd 0.7u GF ug/L (82660)	2Chloro-2',6-' diethyl acetanilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	2-Ethyl-6-methyl-aniline water, fltrd, ug/L (61620)	3,4-Dichloro-aniline water fltrd, ug/L (61625)	3,5-Dichloro-aniline water, fltrd, ug/L (61627)	4Chloro 2methyl phenol, water, fltrd, ug/L (61633)
OCT													
26...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	<.006
DEC													
15...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	<.006
FEB													
15...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	--	<.006
APR													
28...	--	--	--	--	--	<.09	<.006	<.005	E.008	<.004	<.004	--	<.006
JUN													
09...	--	--	--	--	--	<.09	<.006	<.005	E.013	<.004	<.004	<.004	<.006
20...	43	49.10	604	4.4	10.1	--	--	--	--	--	--	--	--
AUG													
09...	--	--	--	--	--	<.09	<.006	<.005	<.006	<.004	<.004	<.004	<.006

Date	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-Endosulfan, water, fltrd, ug/L (34362)	Atrazine, water, fltrd, ug/L (39632)	Azinphos-methyl oxon, water, fltrd, ug/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF ug/L (82686)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Carbaryl, water, fltrd 0.7u GF ug/L (82680)	Carbofuran, water, fltrd 0.7u GF ug/L (82674)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	cis-Propiconazole, water, fltrd, ug/L (79846)
OCT													
26...	<.006	<.007	--	.008	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
DEC													
15...	<.006	<.005	--	<.015	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
FEB													
15...	<.006	<.005	--	.011	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
APR													
28...	<.006	.009	--	.108	<.07	<.050	<.010	<.041	--	<.06	<.005	<.006	--
JUN													
09...	<.006	E.006	<.005	.493	<.07	<.050	<.010	E.007	<.020	<.06	E.004	<.006	<.008
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.006	<.005	<.005	.024	<.07	<.050	<.010	<.041	<.020	<.06	<.005	<.006	<.008

Date	Cyanazine, water, fltrd, ug/L (04041)	Cyfluthrin, water, fltrd, ug/L (61585)	lambda-Cyhalothrin, water, fltrd, ug/L (61595)	Cypermethrin water, fltrd, ug/L (61586)	DCPA, water fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon oxon, water, fltrd, ug/L (61638)	Diazinon, water, fltrd, ug/L (39572)	Dicrotophos, water fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Disulfoton sulfone water, fltrd, ug/L (61640)	Disulfoton, water, fltrd 0.7u GF ug/L (82677)
OCT													
26...	--	<.008	--	<.009	<.003	E.005	<.01	<.005	<.08	<.009	<.006	--	--
DEC													
15...	--	<.008	--	<.009	<.003	<.012	<.01	<.005	<.08	<.009	<.006	--	--
FEB													
15...	--	<.027	--	<.009	<.003	<.012	<.01	E.004	<.08	<.009	<.006	--	--
APR													
28...	--	<.027	--	<.009	<.003	E.004	<.01	<.005	<.08	<.009	<.006	--	--
JUN													
09...	<.018	<.027	<.009	<.009	<.003	E.004	--	<.005	<.08	<.009	<.006	<.01	<.02
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.018	<.027	<.009	<.009	<.003	E.004	--	<.005	<.08	<.009	<.006	<.01	<.02

02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Endosulfan sulfate water, fltrd, ug/L (61590)	EPTC, water, fltrd 0.7u GF ug/L (82668)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Ethoprop, water, fltrd 0.7u GF ug/L (82672)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos oxon, water, fltrd, ug/L (61649)
OCT													
26...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.007	<.024	E.007	<.003
DEC													
15...	--	--	<.0020	<.004	--	<.049	--	<.03	<.029	<.013	<.024	<.016	<.003
FEB													
15...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	<.013	<.024	<.016	--
APR													
28...	--	--	<.0020	<.004	--	<.049	<.04	<.03	<.029	E.005	<.024	E.007	--
JUN													
09...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	E.005	<.024	E.007	--
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.014	<.004	<.002	<.004	<.005	<.049	<.04	<.03	<.029	<.013	<.024	<.016	--

Date	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd 0.7u GF ug/L (82671)
OCT													
26...	<.003	<.013	<.387	<.003	<.030	<.027	<.050	<.006	<.03	<.015	.019	<.006	--
DEC													
15...	<.003	<.013	<.387	<.003	<.030	<.027	<.005	<.006	<.03	<.015	<.015	<.006	--
FEB													
15...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.010	<.006	--
APR													
28...	<.003	<.013	<.538	<.003	<.030	<.027	.009	<.006	<.03	<.015	.054	<.006	--
JUN													
09...	<.003	<.013	<.538	<.003	<.030	<.027	.010	<.006	<.03	<.015	.317	<.006	<.003
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.003	<.013	<.538	<.003	<.030	<.027	<.005	<.006	<.03	<.015	.028	<.006	<.003

Date	Myclobutanil water, fltrd, ug/L (61599)	Oxyfluorfen, water, fltrd, ug/L (61600)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water fltrd 0.7u GF ug/L (82664)	Phosmet oxon, water, fltrd, ug/L (61668)	Phosmet water, fltrd, ug/L (61601)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propanil, water, fltrd 0.7u GF ug/L (82679)	Propargite, water, fltrd 0.7u GF ug/L (82685)	Simazine, water, fltrd, ug/L (04035)
OCT													
26...	<.008	--	<.022	<.10	<.011	<.05	<.008	E.01	.018	<.004	--	--	.008
DEC													
15...	<.008	--	<.022	<.10	<.011	<.05	<.008	.01	.014	<.004	--	--	.013
FEB													
15...	<.008	--	<.022	<.10	<.011	<.05	<.008	E.01	.008	<.004	--	--	.031
APR													
28...	<.008	--	<.022	<.10	<.011	<.05	<.008	.02	.009	<.004	--	--	.076
JUN													
09...	<.008	<.007	<.022	<.10	<.011	<.05	<.008	.02	.010	<.004	<.011	<.02	.056
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.008	<.007	<.022	<.10	<.011	--	<.008	.02	.060	<.004	<.011	<.02	.019

02091500 CONTENTNEA CREEK AT HOOKERTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Tebuthiuron water fltrd 0.7u GF ug/L (82670)	Tefluthrin, water, fltrd, ug/L (61606)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Thiobencarb water fltrd 0.7u GF ug/L (82681)	trans-Propiconazole, water, fltrd, ug/L (79847)	Tribuphos, water, fltrd, ug/L (61610)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	Dichlorvos, water fltrd, ug/L (38775)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
OCT													
26...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	96	8	5.3
DEC													
15...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	93	23	37
FEB													
15...	<.02	--	<.07	<.02	<.01	--	--	--	<.009	<.01	91	11	14
APR													
28...	<.02	--	<.07	<.02	E.01	--	--	--	<.009	<.01	90	10	10
JUN													
09...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	91	13	17
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
09...	<.02	<.008	<.07	<.02	<.01	<.010	<.01	<.004	<.009	<.01	94	31	10

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water sample.
D -- Plant tissue sample.

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'31", long 77°33'46", Greene County, Hydrologic Unit 03020203, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.-- Aproximately 0.57 mi^2.

PERIOD OF RECORD.--April 1999 to September 2001, June 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.50 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. Maximum discharge for period of record from rating curve extended above 10 ft^3/s by logarithmic plotting. No flow occurs on many days during most years. Discharge for period Oct. 2001 to May 2002 not published due to beaver activity affecting the accuracy of the data.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.01	0.16	0.28	0.31	0.64	0.40	0.20	0.02	0.02	0.38	0.00
2	0.03	0.01	0.13	0.25	0.28	0.46	1.4	0.18	0.06	0.01	0.10	0.00
3	0.02	0.01	0.12	0.22	0.30	0.38	0.92	0.19	0.04	0.01	0.04	0.00
4	0.05	0.01	0.10	0.21	0.34	0.33	0.58	0.18	0.04	0.01	0.02	0.00
5	0.03	0.02	0.09	0.19	0.30	0.30	0.44	0.21	0.02	0.13	0.01	0.00
6	0.02	0.01	0.08	0.18	0.26	0.27	0.37	4.0	0.06	0.04	0.01	0.00
7	0.02	0.01	0.09	0.16	0.25	0.25	0.37	2.6	0.08	0.01	0.02	0.00
8	0.02	0.01	0.10	0.15	0.23	0.30	0.54	1.0	0.12	0.00	0.01	0.00
9	0.02	0.01	0.15	0.14	0.23	0.26	0.43	0.53	0.03	0.00	2.3	0.00
10	0.01	0.01	0.23	0.14	0.21	0.24	0.33	0.42	0.03	0.00	0.37	0.00
11	0.01	0.01	0.20	0.12	0.17	0.23	0.28	0.32	0.03	0.00	0.14	0.00
12	0.01	0.11	0.15	0.12	0.16	0.21	0.26	0.21	0.02	0.00	0.07	0.00
13	0.02	0.56	0.14	0.11	0.15	0.18	1.9	0.29	0.02	0.00	0.04	0.00
14	0.02	0.15	0.11	1.7	0.17	0.32	2.9	0.21	0.02	0.01	0.02	0.15
15	0.03	0.09	0.09	0.70	0.18	0.27	1.2	0.16	0.01	0.01	0.02	0.02
16	0.02	0.07	0.09	0.50	0.18	0.94	0.74	0.16	0.01	0.00	0.01	0.01
17	0.02	0.06	0.09	0.40	0.18	3.6	0.53	0.12	0.00	0.01	0.16	0.00
18	0.01	0.05	0.09	0.33	0.15	1.8	0.43	0.08	0.00	0.01	0.03	0.00
19	0.07	0.04	0.09	0.31	0.16	1.0	0.35	0.09	0.00	0.00	0.02	0.00
20	0.05	0.03	0.08	0.30	0.15	1.2	0.35	0.08	0.00	0.00	0.02	0.00
21	0.03	0.02	0.08	0.29	0.17	0.86	0.26	0.09	0.00	0.00	0.02	0.00
22	0.02	0.01	0.08	0.29	0.15	0.67	0.26	0.07	0.00	0.00	0.01	0.00
23	0.02	0.29	0.12	0.26	0.15	3.4	0.30	0.05	0.00	0.01	0.00	0.00
24	0.01	0.23	0.10	0.23	0.54	2.2	0.20	0.03	0.00	0.00	0.00	0.00
25	0.01	0.18	0.08	0.23	0.39	1.1	0.22	0.04	0.00	0.00	0.00	0.00
26	0.01	0.13	0.17	0.22	0.31	0.80	0.25	0.04	0.00	0.00	0.00	0.00
27	0.01	0.11	0.16	0.19	0.28	0.65	0.26	0.04	0.00	0.00	0.00	0.00
28	0.01	0.29	0.16	0.17	0.88	0.68	0.22	0.02	0.18	0.00	0.00	0.00
29	0.01	0.20	0.25	0.17	---	0.59	0.24	0.02	0.32	0.04	0.00	0.00
30	0.01	0.17	0.36	0.50	---	0.47	0.22	0.02	0.03	0.07	0.00	0.00
31	0.01	---	0.32	0.38	---	0.42	---	0.02	---	1.4	0.00	---
TOTAL	0.67	2.91	4.26	9.44	7.23	25.02	17.15	11.67	1.14	1.79	3.82	0.18
MEAN	0.02	0.10	0.14	0.30	0.26	0.81	0.57	0.38	0.04	0.06	0.12	0.01
MAX	0.07	0.56	0.36	1.7	0.88	3.6	2.9	4.0	0.32	1.4	2.3	0.15
MIN	0.01	0.01	0.08	0.11	0.15	0.18	0.20	0.02	0.00	0.00	0.00	0.00
CFSM	0.04	0.17	0.24	0.53	0.45	1.42	1.00	0.66	0.07	0.10	0.22	0.01
IN.	0.04	0.19	0.28	0.62	0.47	1.63	1.12	0.76	0.07	0.12	0.25	0.01

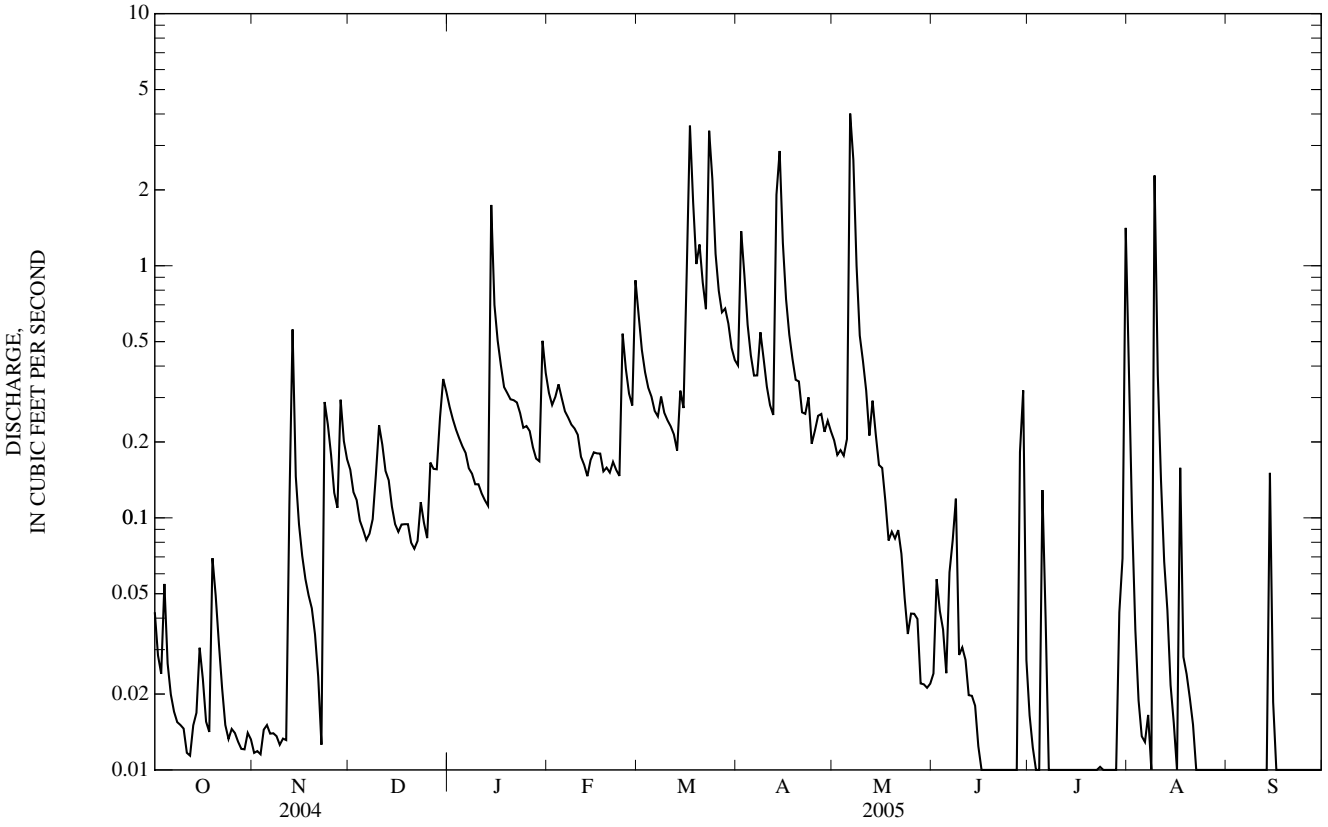
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005,@ BY WATER YEAR (WY)

MEAN	0.60	0.40	0.49	0.24	0.57	0.77	0.42	0.61	0.22	0.16	0.47	2.45
MAX	2.06	0.80	1.28	0.30	1.04	1.49	1.06	2.60	1.13	0.62	2.39	15.4
(WY)	(2000)	(2004)	(2004)	(2005)	(2003)	(2003)	(2003)	(2003)	(2001)	(2003)	(2003)	(1999)
MIN	0.02	0.05	0.09	0.13	0.20	0.30	0.11	0.08	0.02	0.01	0.00	0.00
(WY)	(2005)	(2001)	(2001)	(2001)	(2001)	(2000)	(2004)	(2001)	(2004)	(2000)	(2002)	(2002)

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005[@]	
ANNUAL TOTAL	82.29		85.28			
ANNUAL MEAN	0.22		0.23		0.48	
HIGHEST ANNUAL MEAN					1.01	2003
LOWEST ANNUAL MEAN					0.23	2005
HIGHEST DAILY MEAN	8.9	Aug 14	4.0	May 6	283	Sep 16, 1999
LOWEST DAILY MEAN	0.00	Jun 3	0.00	Jun 17	0.00	Jun 10, 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 9	0.00	Jun 17	0.00	Jul 30, 1999
MAXIMUM PEAK FLOW			29	Aug 9	500	Sep 16, 1999
MAXIMUM PEAK STAGE			2.21	Aug 9	5.18	Sep 16, 1999
INSTANTANEOUS LOW FLOW			0.00*	Jun 17	0.00*	Jun 10, 1999
ANNUAL RUNOFF (CFSM)	0.394		0.410		0.842	
ANNUAL RUNOFF (INCHES)	5.37		5.57		11.44	
10 PERCENT EXCEEDS	0.44		0.50		0.95	
50 PERCENT EXCEEDS	0.08		0.09		0.16	
90 PERCENT EXCEEDS	0.01		0.00		0.01	

[@] See PERIOD OF RECORD.
* See REMARKS.



353137077332801 WEATHER STATION #2 NEAR LIZZIE, NC

LOCATION.--Lat 35°31'43", long 77°33'28", Greene County, Hydrologic Unit 03020203, approximately 6.0 mi south of Farmville.

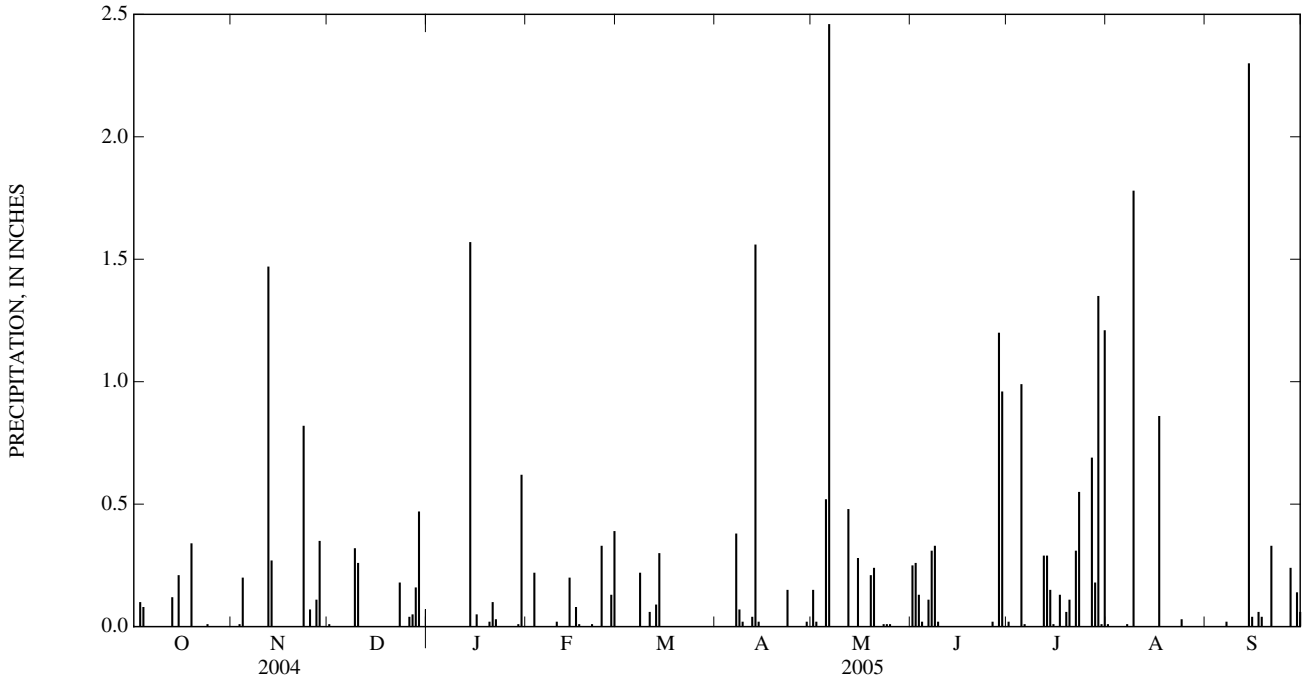
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipition gage is operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.01	0.00	0.00	0.00	---	0.15	0.25	0.02	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	---	0.02	0.26	0.00	0.00	0.00
3	0.10	0.01	0.00	0.00	0.22	0.00	---	0.00	0.13	0.00	0.00	0.00
4	0.08	0.20	0.00	0.00	0.00	0.00	---	0.00	0.02	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	---	0.52	0.00	0.99	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.46	0.11	0.01	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.31	0.00	0.01	0.02
8	0.00	0.00	0.00	0.00	0.00	0.22	0.07	0.00	0.33	0.00	0.00	0.00
9	0.00	0.00	0.32	0.00	0.00	0.00	0.02	0.00	0.02	0.00	1.78	0.00
10	0.00	0.00	0.26	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.47	0.00	0.00	0.00	0.00	0.04	0.48	0.00	0.29	0.00	0.00
13	0.12	0.27	0.00	0.00	0.00	0.09	1.56	0.00	0.00	0.29	0.00	0.00
14	0.00	0.00	0.00	1.57	0.20	0.30	0.02	0.00	0.00	0.15	0.00	2.30
15	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.01	0.00	0.04
16	0.00	0.00	0.00	0.05	0.08	---	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.01	---	0.00	0.00	0.00	0.13	0.86	0.06
18	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.04
19	0.34	0.00	0.00	0.00	0.00	---	0.00	0.21	0.00	0.06	0.00	0.00
20	0.00	0.00	0.00	0.02	0.00	---	0.00	0.24	0.00	0.11	0.00	0.00
21	0.00	0.00	0.00	0.10	0.01	---	0.00	0.00	0.00	0.00	0.00	0.33
22	0.00	0.00	0.00	0.03	0.00	---	0.00	0.00	0.00	0.31	0.00	0.00
23	0.00	0.82	0.18	0.00	0.00	---	0.15	0.01	0.00	0.55	0.00	0.00
24	0.01	0.00	0.00	0.00	0.33	---	0.00	0.01	0.00	0.00	0.03	0.00
25	0.00	0.07	0.00	0.00	0.00	---	0.00	0.01	0.00	0.00	0.00	0.00
26	0.00	0.00	0.04	0.00	0.00	---	0.00	0.00	0.02	0.00	0.00	0.00
27	0.00	0.11	0.05	0.00	0.13	---	0.00	0.00	0.00	0.69	0.00	0.24
28	0.00	0.35	0.16	0.00	0.39	---	0.00	0.00	1.20	0.18	0.00	0.00
29	0.00	0.00	0.47	0.01	---	---	0.02	0.00	0.96	1.35	0.00	0.14
30	0.00	0.00	0.00	0.62	---	---	0.00	0.00	0.00	0.01	0.00	0.06
31	0.00	---	0.00	0.00	---	---	---	0.00	---	1.21	0.00	---
TOTAL	0.86	3.30	1.49	2.40	1.39	---	---	4.39	3.61	6.36	2.69	3.23



02091736 MIDDLE SWAMP NEAR FARMVILLE, NC

LOCATION.--Lat 35°31'58", long 77°32'43", Pitt County, Hydrologic Unit 03020203, at bridge on Secondary Road 1139, 1.2 mi above mouth and 5 mi southeast of Farmville.

DRAINAGE AREA.-- 51.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to March 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources to monitor water quality changes in an agricultural watershed. Maximum gage height for period of record probably occurred on Sept. 17, 1999, discharge not determined. Maximum gage height from floodmarks. No flow also occurred on June 10, 1999; and on several days in Sept. and Oct. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	4.0	17	24	46	93	---	---	---	---	---	---
2	7.0	4.3	13	21	35	77	---	---	---	---	---	---
3	6.1	4.5	11	19	32	59	---	---	---	---	---	---
4	4.8	4.7	9.6	16	39	41	---	---	---	---	---	---
5	3.3	4.5	8.5	14	39	32	---	---	---	---	---	---
6	2.2	3.4	7.7	11	36	27	---	---	---	---	---	---
7	1.8	3.3	7.0	9.3	31	23	---	---	---	---	---	---
8	1.5	3.6	6.6	9.0	27	25	---	---	---	---	---	---
9	1.4	3.6	7.1	7.9	24	31	---	---	---	---	---	---
10	1.5	3.5	15	6.6	21	30	---	---	---	---	---	---
11	1.6	3.5	17	6.1	19	26	---	---	---	---	---	---
12	1.6	4.4	15	6.7	17	25	---	---	---	---	---	---
13	1.7	16	12	6.1	15	22	---	---	---	---	---	---
14	1.9	48	9.3	65	16	31	---	---	---	---	---	---
15	2.2	23	7.7	137	18	---	---	---	---	---	---	---
16	2.4	16	6.5	101	19	---	---	---	---	---	---	---
17	2.5	14	6.2	78	20	---	---	---	---	---	---	---
18	2.5	11	5.9	54	17	---	---	---	---	---	---	---
19	3.0	8.3	5.7	38	16	---	---	---	---	---	---	---
20	3.0	6.4	5.5	35	14	---	---	---	---	---	---	---
21	3.0	4.7	5.0	36	13	---	---	---	---	---	---	---
22	3.1	4.0	5.3	34	13	---	---	---	---	---	---	---
23	3.0	9.2	6.2	33	12	---	---	---	---	---	---	---
24	2.9	19	6.2	27	37	---	---	---	---	---	---	---
25	2.9	23	6.3	26	78	---	---	---	---	---	---	---
26	2.8	17	13	25	56	---	---	---	---	---	---	---
27	3.0	14	17	22	41	---	---	---	---	---	---	---
28	3.2	22	16	19	73	---	---	---	---	---	---	---
29	3.3	27	15	17	---	---	---	---	---	---	---	---
30	3.4	22	21	35	---	---	---	---	---	---	---	---
31	3.6	---	25	57	---	---	---	---	---	---	---	---
TOTAL	94.3	351.9	329.3	995.7	824	542	---	---	---	---	---	---
MEAN	3.04	11.7	10.6	32.1	29.4	38.7	---	---	---	---	---	---
MAX	8.1	48	25	137	78	93	---	---	---	---	---	---
MIN	1.4	3.3	5.0	6.1	12	22	---	---	---	---	---	---
CFSM	0.06	0.23	0.21	0.63	0.58	0.76	---	---	---	---	---	---
IN.	0.07	0.26	0.24	0.73	0.60	0.40	---	---	---	---	---	---

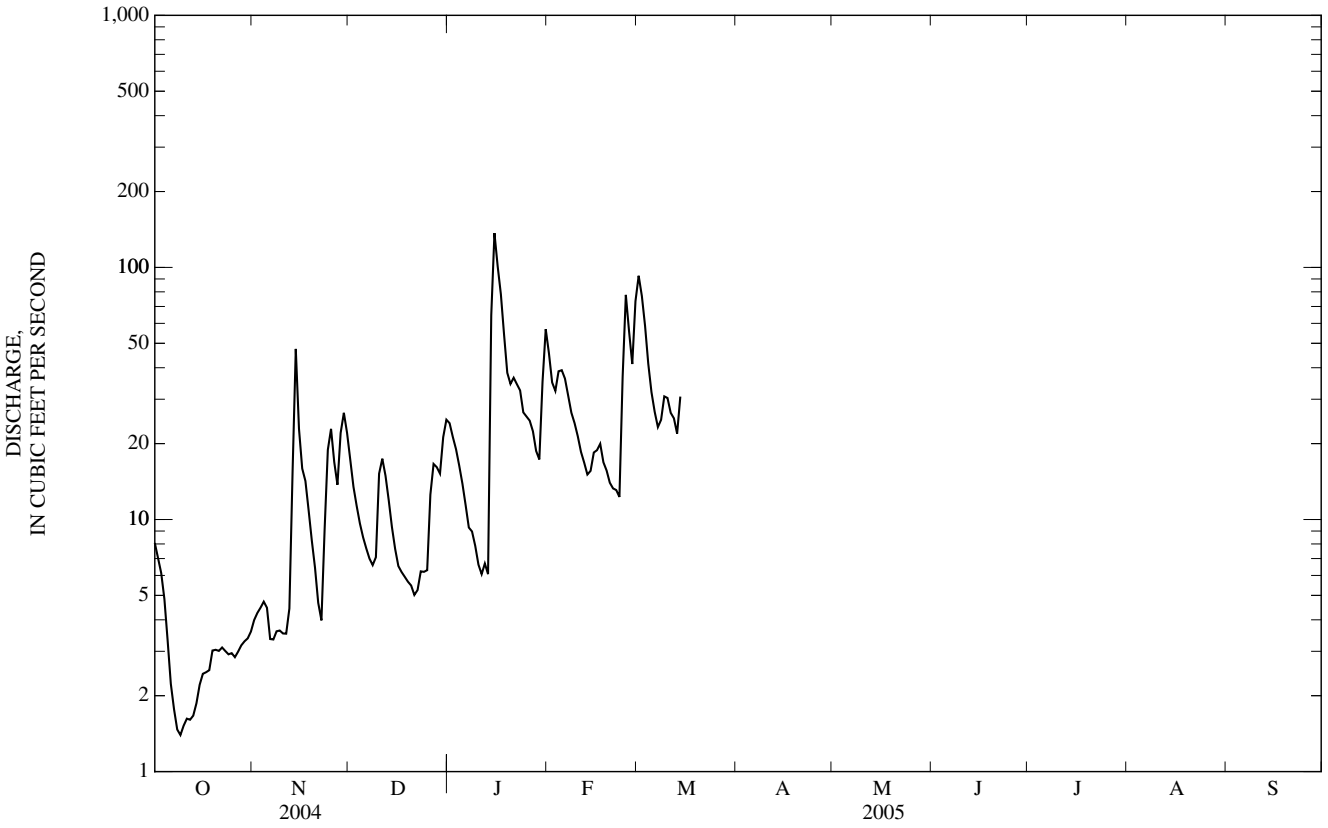
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	40.8	30.2	35.2	36.3	58.0	63.5	53.4	46.5	17.1	22.6	49.0	111
MAX	166	61.0	92.0	91.1	98.3	180	150	173	48.3	111	232	462
(WY)	(2000)	(2004)	(2004)	(2000)	(2000)	(2003)	(2003)	(2003)	(2001)	(2003)	(2003)	(1999)
MIN	0.52	0.35	0.52	9.29	22.1	21.4	20.1	2.09	0.50	1.77	0.16	0.01
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2001)	(2002)	(2000)	(1999)	(2002)

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	8,630.63					
ANNUAL MEAN	23.6				45.0	
HIGHEST ANNUAL MEAN					107	2003
LOWEST ANNUAL MEAN					14.1	2002
HIGHEST DAILY MEAN	378	Aug 15	137	Jan 15	3,000	Sep 17, 1999
LOWEST DAILY MEAN	0.16	Jul 18	1.4	Oct 9	0.00	Sep 6, 2002
ANNUAL SEVEN-DAY MINIMUM	0.25	Jul 16	1.6	Oct 7	0.00	Sep 6, 2002
MAXIMUM PEAK FLOW			153	Jan 15	NOT DETERMINED	
MAXIMUM PEAK STAGE			7.33	Jan 15	19.03*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			1.3	Oct 9	0.00*	Jun 9, 1999
ANNUAL RUNOFF (CFSM)	0.462				0.882	
ANNUAL RUNOFF (INCHES)	6.30				11.98	
10 PERCENT EXCEEDS	54				126	
50 PERCENT EXCEEDS	8.8				13	
90 PERCENT EXCEEDS	1.2				0.47	

* See REMARKS.



02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'50", long 77°18'10", Craven County, Hydrologic Unit 03020202, on left bank 0.2 mi upstream from bridge on Secondary Road 1470, 1.5 mi upstream from Core Creek and 2.0 mi east of Fort Barnwell.

DRAINAGE AREA.--3,900 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements water years 1955-1995, October 1996 to current year.
REVISED RECORDS.--WDR NC-02-1A: 2001(M).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Maximum gage height for period of record, from floodmarks. Flow regulated by Falls Lake (station 02087182) and is affected by both astronomical and wind tides.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,720	1,040	3,790	2,870	3,160	3,810	6,810	1,720	1,070	1,420	2,860	712
2	2,480	1,040	4,170	2,960	3,150	3,920	7,040	1,640	1,080	1,370	3,510	689
3	2,320	1,010	4,460	3,150	3,390	4,020	7,350	1,540	1,120	1,510	4,030	655
4	2,360	1,040	4,550	3,310	3,600	4,420	7,320	1,510	1,090	1,470	3,970	634
5	2,490	1,030	4,570	3,390	3,710	4,860	7,110	1,530	1,150	1,250	3,490	595
6	2,420	1,020	4,380	3,440	3,790	5,150	7,020	2,020	1,340	1,060	2,740	631
7	2,250	1,020	4,070	3,380	3,980	5,300	6,730	3,480	1,490	987	2,000	628
8	2,110	1,010	3,650	3,230	4,270	5,340	6,680	4,520	1,550	1,030	1,460	590
9	1,990	1,100	3,220	3,030	4,480	5,110	6,530	5,330	1,710	1,010	1,210	553
10	1,800	1,070	3,020	2,830	4,450	4,640	6,380	5,950	1,730	948	1,280	537
11	1,610	1,040	2,930	2,590	4,190	4,310	6,260	6,090	2,240	890	1,720	590
12	1,430	1,040	2,730	2,450	3,850	4,270	5,970	5,860	2,690	1,010	2,320	640
13	1,290	1,460	2,740	2,370	3,430	4,420	5,980	5,140	2,570	992	2,630	594
14	1,340	2,040	e3,100	2,390	3,040	4,560	6,400	4,460	2,170	1,050	2,640	557
15	1,460	2,420	e3,190	2,790	2,700	4,490	6,920	4,000	1,750	1,080	2,220	1,080
16	1,550	2,850	3,050	3,260	2,440	4,250	7,320	3,570	1,390	1,130	1,640	1,520
17	1,990	3,290	2,890	4,010	2,260	4,230	7,530	3,160	1,170	1,050	1,370	1,100
18	2,350	3,320	3,030	4,870	2,170	4,620	7,540	2,680	1,060	983	1,260	936
19	2,340	3,020	3,300	5,520	2,160	5,130	7,600	2,350	945	1,000	1,240	842
20	2,180	2,640	3,500	6,010	2,280	5,730	e7,170	2,250	882	1,030	1,170	828
21	1,970	2,270	3,510	6,460	2,370	6,360	6,410	2,140	852	964	1,150	760
22	1,750	1,970	3,370	6,940	2,240	6,840	5,450	2,070	804	1,070	1,060	788
23	1,590	2,040	3,230	7,220	2,090	7,360	4,690	1,970	722	3,160	958	878
24	1,470	2,790	3,200	7,040	2,020	7,890	4,140	2,090	711	3,880	855	852
25	1,360	3,360	3,110	6,560	2,220	8,310	3,570	2,200	668	3,950	859	898
26	1,310	3,440	2,930	6,150	2,480	8,630	3,040	2,180	669	3,690	960	921
27	1,260	3,390	2,920	5,560	2,770	8,630	2,620	1,970	636	3,280	956	e810
28	1,200	3,520	2,880	4,980	3,310	8,350	2,290	1,680	780	2,620	924	e725
29	1,180	3,560	2,840	4,400	---	7,870	2,060	1,390	937	2,130	887	699
30	1,110	3,590	2,820	3,940	---	7,410	1,870	1,230	1,160	2,080	827	625
31	1,080	---	2,830	3,450	---	7,110	---	1,110	---	2,470	795	---
TOTAL	55,760	63,430	103,980	130,550	86,000	177,340	173,800	88,830	38,136	51,564	54,991	22,867
MEAN	1,799	2,114	3,354	4,211	3,071	5,721	5,793	2,865	1,271	1,663	1,774	762
MAX	2,720	3,590	4,570	7,220	4,480	8,630	7,600	6,090	2,690	3,950	4,030	1,520
MIN	1,080	1,010	2,730	2,370	2,020	3,810	1,870	1,110	636	890	795	537

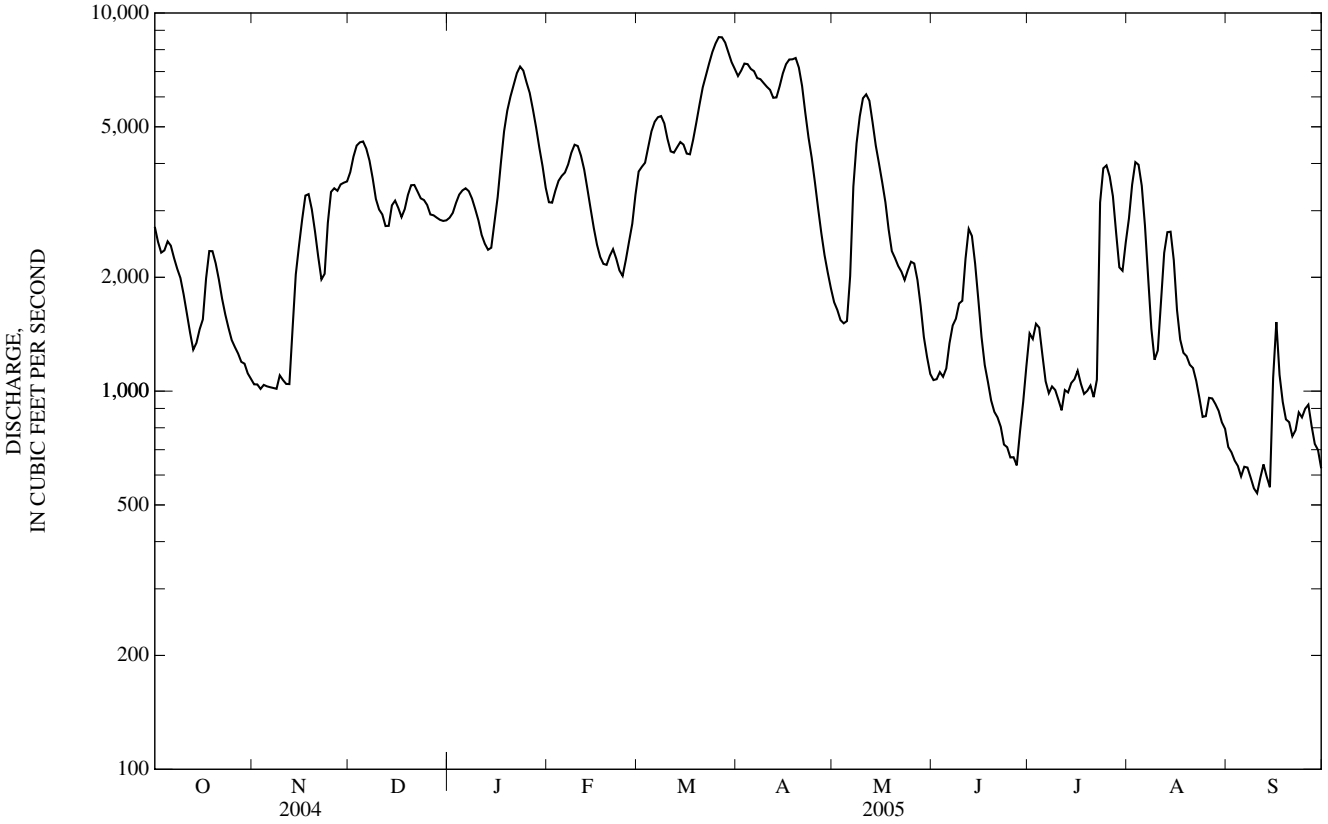
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	5,005	3,019	3,668	4,886	6,954	6,550	5,929	3,255	2,330	1,964	3,017	5,246
MAX	23,040	6,630	6,969	8,707	19,110	15,340	11,760	6,973	6,429	5,764	7,856	26,590
(WY)	(2000)	(2000)	(1997)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1999)
MIN	938	732	952	1,501	1,988	2,715	2,739	893	573	788	659	762
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(2002)	(2005)

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	1,316,898		1,047,248			
ANNUAL MEAN	3,598		2,869		4,301	
HIGHEST ANNUAL MEAN					6,376	2003
LOWEST ANNUAL MEAN					1,766	2002
HIGHEST DAILY MEAN	9,420	May 10	8,630	Mar 26	57,000	Sep 20, 1999
LOWEST DAILY MEAN	960	Jul 22	537	Sep 10	340	Jun 27, 2002
ANNUAL SEVEN-DAY MINIMUM	1,020	Nov 2	580	Sep 8	413	Aug 12, 2002
MAXIMUM PEAK FLOW			9,110	Mar 27	57,200	Sep 20, 1999
MAXIMUM PEAK STAGE			9.99	Mar 27	22.75*	Sep 20, 1999
INSTANTANEOUS LOW FLOW			389	Sep 9	41	Jul 11, 1999
10 PERCENT EXCEEDS	6,810		6,110		8,870	
50 PERCENT EXCEEDS	3,030		2,420		2,730	
90 PERCENT EXCEEDS	1,330		880		867	

* See REMARKS.
e Estimated.



0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC

LOCATION.--Lat 35°13'51", long 77°06'50", Craven County, Hydrologic Unit 03020202, at downstream side of bridge on NC Highway 43, 0.5 mi upstream from mouth, 2 mi upstrean from Little Fisher Creek, and 1.3 mi north-northeast of Streets Ferry.

DRAINAGE AREA.--269 mi^2.

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929. Prior to Oct. 1999 datum reported as 10 ft below NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records poor. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,900 ft^3/s, Sept. 21, 1999, maximum gage height, 12.28 ft, Sept. 21, 1999, from flood mark; minimum discharge, -5,140 ft^3/s, Aug. 30, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,450 ft^3/s, Apr. 16, maximum gage height, 5.59 ft, Sept. 15; minimum discharge, -2,620 ft^3/s, Sept. 15.

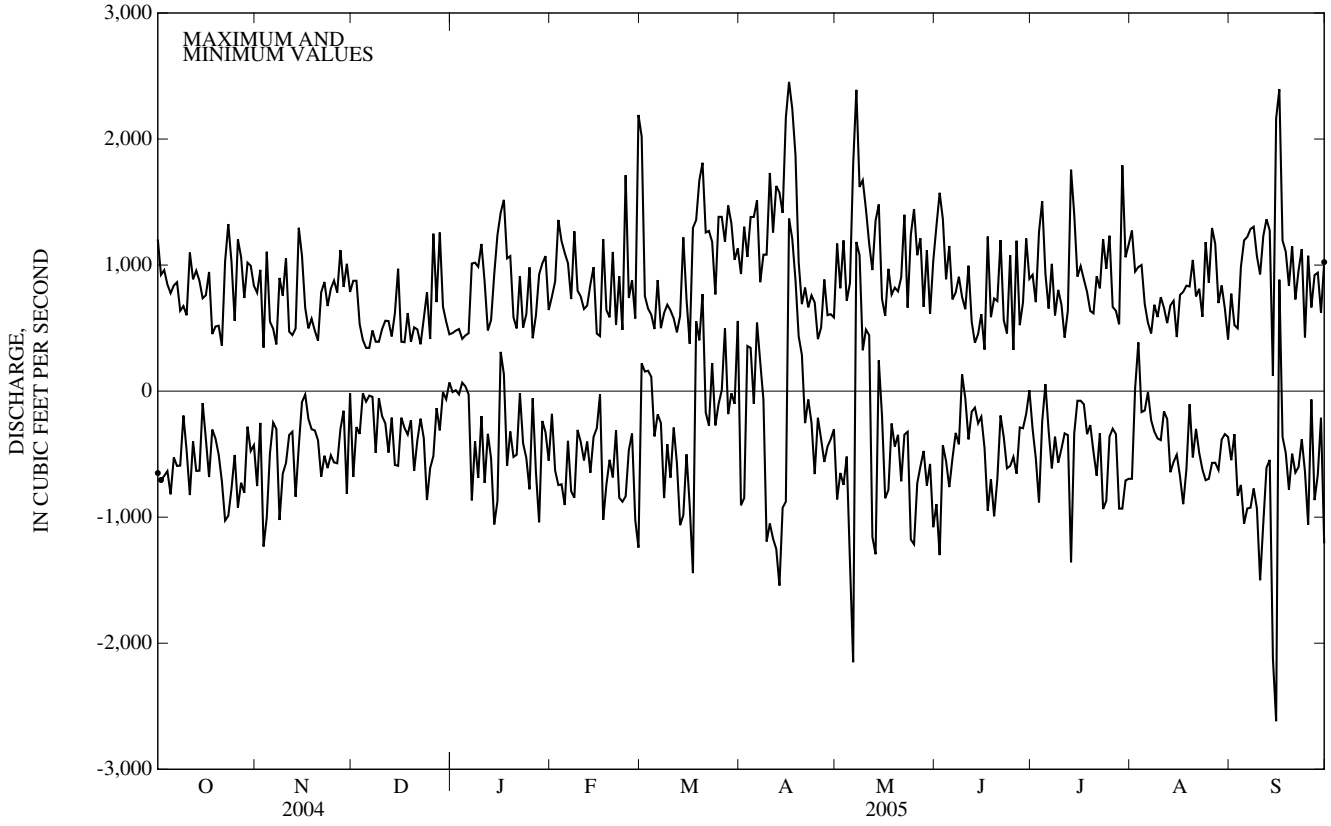
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1,200	-649	781	-753	876	-681	461	-7.4	750	-180	2,020	219
2	923	-705	962	-252	876	-285	480	7.2	870	-631	754	155
3	960	-673	345	-1,230	531	-339	493	-26	1,360	-745	654	162
4	846	-634	1,110	-1,000	406	-17	415	67	1,190	-739	607	114
5	777	-819	551	-492	343	-84	442	37	1,100	-904	493	-359
6	838	-526	495	-249	343	-36	459	-26	1,010	-394	881	-185
7	864	-594	371	-300	481	-45	1,010	-867	730	-794	499	-252
8	638	-591	898	-1,020	392	-489	1,020	-396	1,270	-846	620	-849
9	675	-194	757	-655	391	-55	986	-689	797	-308	686	-421
10	602	-473	1,060	-571	493	-199	1,170	-198	750	-404	640	-686
11	1,100	-824	472	-348	558	-256	865	-729	651	-549	577	-289
12	887	-398	445	-322	556	-488	482	-339	679	-400	466	-572
13	956	-633	496	-838	434	-210	563	-532	847	-648	597	-1,060
14	874	-631	1,300	-438	620	-586	929	-1,060	983	-362	1,220	-984
15	737	-95	1,070	-87	971	-592	1,240	-872	456	-295	730	-501
16	761	-379	660	-27	392	-211	1,420	312	437	-27	376	-910
17	946	-682	498	-221	388	-293	1,520	134	1,210	-1,020	1,300	-1,440
18	453	-305	574	-303	620	-344	1,050	-594	644	-741	1,360	556
19	512	-375	480	-311	391	-230	1,070	-320	586	-545	1,670	403
20	519	-504	400	-389	506	-633	585	-522	1,100	-684	1,810	770
21	361	-716	785	-680	490	-392	497	-504	525	-310	1,260	-169
22	1,030	-1,030	866	-512	372	-219	913	-18	913	-846	1,270	-273
23	1,330	-989	675	-611	575	-373	505	-414	486	-877	1,180	223
24	1,020	-773	813	-509	785	-864	609	-530	1,710	-835	767	-272
25	557	-507	877	-565	414	-610	982	-779	739	-468	1,380	-102
26	1,200	-924	783	-572	1,250	-515	420	-57	881	-337	1,380	8.0
27	1,060	-727	1,120	-301	706	-135	602	-644	576	-1,020	1,190	500
28	739	-807	827	-155	1,260	-311	926	-1,040	2,190	-1,240	1,470	-183
29	1,020	-282	1,010	-816	669	-7.3	1,010	-237	---	---	1,330	-18
30	995	-475	787	-18	550	-65	1,070	-327	---	---	1,040	-101
31	836	-429	---	---	450	69	644	-551	---	---	1,130	557
MONTH	1,330	-1,030	1,300	-1,230	1,260	-864	1,520	-1,060	2,190	-1,240	2,020	-1,440

0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	929	-906	1,170	-859	1,310	-897	923	-300	1,270	-696	773	-548
2	1,300	-848	816	-649	1,570	-1,300	706	-532	948	24	523	-342
3	1,060	358	1,200	-743	1,360	-429	1,260	-883	984	386	498	-830
4	1,380	344	717	-519	888	-555	1,510	-241	1,000	-166	985	-745
5	1,380	-101	857	-1,360	1,150	-762	931	55	690	-154	1,200	-1,050
6	1,510	543	1,800	-2,150	728	-533	656	-313	542	-7.5	1,220	-931
7	864	232	2,390	1,180	783	-331	1,010	-613	458	-231	1,290	-925
8	1,080	-67	1,620	1,080	908	-422	601	-361	685	-322	1,300	-773
9	1,080	-1,190	1,670	324	746	132	803	-567	588	-375	1,070	-932
10	1,730	-1,050	1,440	488	650	-56	686	-458	745	-389	926	-1,500
11	1,260	-1,170	1,170	444	995	-383	425	-335	661	-160	1,230	-1,050
12	1,630	-1,250	960	-1,160	550	-163	639	-349	539	-222	1,360	-607
13	1,580	-1,540	1,350	-1,290	384	-131	1,760	-1,360	680	-643	1,280	-546
14	1,410	-925	1,480	243	453	-256	1,400	-333	717	-562	120	-2,120
15	2,170	-877	732	-192	611	-203	909	-76	429	-504	2,160	-2,620
16	2,450	1,370	597	-850	329	-452	991	-76	763	-677	2,390	884
17	2,240	1,210	970	-783	1,230	-948	886	-104	788	-897	1,190	-363
18	1,870	882	766	-257	587	-698	786	-342	836	-620	1,110	-490
19	1,020	435	821	-439	735	-993	636	-270	830	-104	835	-782
20	690	288	792	-347	715	-697	617	-482	1,040	-526	1,150	-497
21	821	-254	902	-715	1,200	-194	911	-671	752	-299	727	-646
22	665	-67	1,400	-345	562	-367	816	-333	812	-491	958	-602
23	759	-250	662	-322	458	-612	1,210	-935	589	-622	1,130	-381
24	704	-658	1,240	-1,180	1,080	-594	971	-869	1,180	-707	426	-640
25	412	-212	1,440	-1,220	327	-522	1,230	-361	860	-695	1,070	-1,060
26	504	-380	1,080	-732	1,190	-655	667	-298	1,290	-569	664	-66
27	885	-562	1,210	-596	523	-288	637	-341	1,170	-569	921	-865
28	602	-439	668	-475	702	-295	530	-932	699	-625	940	-663
29	611	-381	1,120	-750	1,210	-180	1,790	-932	838	-384	622	-211
30	585	-304	612	-578	890	7.4	1,060	-709	656	-341	1,020	-1,210
31	---	---	1,030	-1,080	---	---	1,170	-696	410	-363	---	---
MONTH	2,450	-1,540	2,390	-2,150	1,570	-1,300	1,790	-1,360	1,290	-897	2,390	-2,620
YEAR	2,450	-2,620										



02092162 NEUSE RIVER AT NEW BERN, NC

LOCATION.--Lat 35°06'34", long 77°01'58", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Marker 38.

DRAINAGE AREA.--4,470 mi^2.

PERIOD OF RECORD.-- Water years 1957-67, 1996 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): June 1996 to current year.
pH (TOP AND BOTTOM): June 1996 to current year.
WATER TEMPERATURE (TOP AND BOTTOM): June 1996 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): June 1996 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION, (TOP AND BOTTOM): June 1996 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from June 1996 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was relocated from the U.S. Highway 17 bridge at New Bern to channel marker 38 on August 5, 1999. Channel marker 38 is approximately 500 yards upstream of the bridge. The monitor was removed on September 16, 2003, to prevent possible destruction of equipment during Hurricane Isabel. It was reinstalled September 19, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Top constituents were monitored at 8 feet above the streambed, and bottom constituents, 2 feet above the streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760mm of Hg beginning October 1, 2000. Daily records of salinity and water temperature for October 1956 to September 1967 are available in the files of the USGS Water Science Center, Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	21.8, August 1, 2002	<0.1, on many days during the period
SALINITY (BOTOM), ppt	22.1, August 1, 2002	<0.1, on many days during the period
pH (TOP), standard units	9.9, June 6, 7, 1999	5.7, September 29, 30, 1999, October 9, 14, 15, 1999
pH (BOTTOM), standard units	9.7, July 10, 11, 1997	4.9, October 13, 15-17, 1999
WATER TEMPERATURE (TOP), ^{o} C	34.1, July 28, 2005	1.0, January 29, 2000
WATER TEMPERATURE (BOTTOM), ^{o} C	31.2, August 10, 2001	1.1, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	17.4, December 19, 1997	<1.0, on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	16.1, January 8, 1998	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	10.6, August 24	.04, on many days during the year
SALINITY (BOTTOM), ppt	11.1, June 20	.04, on many days during the year
pH (TOP), standard units	9.2, September 1	6.5, May 10, 11, 12, 14, 15
pH (BOTTOM), standard units	9.0, June 12	6.3, May 11, 14, 15
WATER TEMPERATURE (TOP), ^{o}C	34.1, July 28	1.8, January 24
WATER TEMPERATURE (BOTTOM), ^{o}C	30.8, July 29, 30	2.7, January 24
DISSOLVED OXYGEN (TOP), mg/L	14.2, September 1	0.0, August 18
DISSOLVED OXYGEN (BOTTOM), mg/L	12.6, December 27	0.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	194, September 1	0, August 18
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	137, June 12	0, on many days during the year

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	0.09	0.06	0.07	---	---	---	1.5	0.38	0.61	0.46	0.20	0.30
2	0.07	0.06	0.06	2.5	1.7	2.1	0.83	0.17	0.41	3.2	0.22	0.54
3	0.08	0.06	0.07	5.2	1.2	2.3	0.62	0.15	0.32	1.0	0.22	0.47
4	0.08	0.07	0.07	5.2	1.9	2.9	---	---	---	0.78	0.37	0.53
5	0.10	0.07	0.08	3.4	2.0	2.6	0.16	0.08	0.12	1.0	0.53	0.69
6	0.10	0.07	0.08	---	---	---	0.16	0.09	0.13	1.1	0.37	0.66
7	0.08	0.07	0.07	---	---	---	0.28	0.10	0.15	7.8	0.39	0.92
8	0.08	0.07	0.07	---	---	---	0.34	0.08	0.18	0.76	0.42	0.55
9	0.07	0.07	0.07	---	---	---	0.15	0.08	0.10	2.2	0.43	0.54
10	0.08	0.07	0.07	---	---	---	0.16	0.08	0.11	2.2	0.39	0.91
11	0.08	0.07	0.08	4.3	1.2	2.3	0.11	0.07	0.09	8.5	0.26	1.4
12	0.08	0.07	0.07	3.8	1.7	2.7	0.58	0.08	0.19	2.4	0.70	1.1
13	0.08	0.07	0.07	3.0	1.3	2.2	---	---	---	1.1	0.70	0.85
14	0.08	0.07	0.07	2.1	1.2	1.8	3.2	1.5	2.6	2.3	0.53	1.2
15	0.09	0.07	0.08	1.5	0.77	1.0	4.6	2.0	3.4	2.2	0.77	1.4
16	0.09	0.07	0.08	2.4	0.52	0.78	3.4	1.3	2.4	1.4	0.28	0.80
17	0.09	0.08	0.08	5.7	0.58	2.4	3.1	0.64	1.2	1.7	0.27	1.0
18	0.26	0.08	0.12	4.9	1.1	3.5	5.3	0.41	1.8	1.6	0.19	0.70
19	0.18	0.09	0.12	4.6	0.93	2.5	5.0	1.2	2.7	0.50	0.10	0.15
20	0.19	0.08	0.11	4.3	0.68	2.0	5.0	2.2	4.1	0.17	0.09	0.12
21	0.92	0.16	0.23	2.8	0.40	0.65	3.8	0.57	1.9	9.3	0.12	1.8
22	7.1	0.32	3.2	4.2	0.57	1.3	1.7	0.27	0.67	7.8	0.44	1.7
23	7.1	2.5	4.5	0.87	0.45	0.56	0.48	0.17	0.29	4.9	1.3	3.2
24	7.3	2.4	4.7	2.3	0.45	0.94	1.0	0.24	0.53	2.4	0.38	0.96
25	8.0	2.9	5.9	1.6	0.71	1.0	0.50	0.20	0.31	1.1	0.15	0.30
26	7.1	3.6	5.4	2.6	0.63	1.6	2.1	0.30	1.3	0.21	0.07	0.10
27	7.5	3.7	5.8	2.4	0.39	0.67	2.1	0.46	1.5	0.72	0.08	0.32
28	7.7	3.8	6.5	3.1	0.78	1.6	1.1	0.36	0.65	1.1	0.28	0.68
29	---	---	---	1.9	0.62	1.1	0.91	0.44	0.63	0.91	0.32	0.54
30	---	---	---	1.7	0.40	0.83	0.53	0.16	0.25	1.4	0.40	0.84
31	---	---	---	---	---	---	0.32	0.13	0.17	1.2	0.17	0.48
MONTH	---	---	---	---	---	---	---	---	---	9.3	0.07	0.83
		FEBRUARY			MARCH			APRIL			MAY	
1	0.63	0.25	0.36	0.98	0.10	0.52	0.05	0.05	0.05	0.72	0.09	0.36
2	0.84	0.24	0.48	0.43	0.08	0.24	0.07	0.04	0.05	0.51	0.13	0.32
3	1.3	0.59	0.93	0.81	0.17	0.54	0.07	0.05	0.05	0.76	0.11	0.27
4	1.2	0.81	1.0	0.28	0.08	0.16	0.06	0.04	0.05	0.48	0.20	0.30
5	1.1	0.53	0.91	0.52	0.07	0.16	0.06	0.04	0.05	2.2	0.36	1.0
6	1.0	0.31	0.50	0.67	0.15	0.33	0.05	0.04	0.04	4.0	0.36	1.6
7	---	---	---	0.33	0.08	0.23	0.05	0.04	0.04	0.52	0.12	0.36
8	---	---	---	0.74	0.05	0.13	0.05	0.04	0.04	0.40	0.09	0.21
9	0.84	0.09	0.20	0.55	0.09	0.28	0.05	0.04	0.05	0.17	0.06	0.09
10	1.9	0.13	0.70	0.12	0.05	0.07	0.05	0.04	0.05	0.07	0.05	0.07
11	---	---	---	0.09	0.05	0.06	0.05	0.04	0.05	0.08	0.05	0.06
12	1.3	0.53	0.97	0.11	0.05	0.06	0.06	0.05	0.05	1.9	0.05	0.12
13	0.64	0.18	0.36	0.28	0.07	0.10	0.06	0.05	0.05	1.2	0.05	0.18
14	0.31	0.09	0.17	0.28	0.05	0.09	0.05	0.05	0.05	0.06	0.05	0.05
15	0.23	0.06	0.11	0.07	0.05	0.06	0.05	0.04	0.05	0.05	0.05	0.05
16	---	---	---	0.90	0.05	0.23	0.05	0.04	0.04	0.05	0.05	0.05
17	4.2	0.17	0.82	1.3	0.08	0.48	0.06	0.04	0.05	0.05	0.05	0.05
18	4.8	0.72	1.8	0.08	0.05	0.06	0.06	0.05	0.05	0.06	0.05	0.05
19	2.0	0.82	1.2	0.06	0.05	0.06	0.05	0.04	0.05	0.06	0.05	0.06
20	2.4	0.61	1.3	0.07	0.06	0.06	0.05	0.04	0.05	0.06	0.05	0.05
21	1.7	0.60	0.93	0.07	0.05	0.06	0.05	0.04	0.04	0.06	0.06	0.06
22	1.6	0.35	0.70	0.06	0.05	0.05	0.05	0.04	0.05	0.07	0.06	0.06
23	2.2	0.44	0.83	0.06	0.04	0.05	0.05	0.04	0.05	0.07	0.06	0.06
24	2.0	0.72	1.1	0.06	0.05	0.05	0.05	0.04	0.05	0.08	0.06	0.07
25	2.4	0.55	1.1	0.05	0.04	0.05	0.06	0.05	0.05	0.26	0.07	0.11
26	0.92	0.37	0.50	0.04	0.04	0.04	0.06	0.05	0.05	0.11	0.07	0.08
27	3.2	0.31	1.1	0.04	0.04	0.04	0.06	0.05	0.05	0.08	0.07	0.07
28	3.2	0.84	2.0	0.05	0.04	0.05	0.39	0.06	0.19	0.07	0.06	0.07
29	---	---	---	0.06	0.04	0.05	0.30	0.17	0.23	0.08	0.07	0.07
30	---	---	---	0.06	0.04	0.05	0.30	0.07	0.19	0.10	0.07	0.07
31	---	---	---	0.05	0.04	0.04	---	---	---	0.93	0.09	0.34
MONTH	---	---	---	1.3	0.04	0.14	0.39	0.04	0.06	4.0	0.05	0.21

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	0.90	0.25	0.60	0.99	0.24	0.52	0.35	0.10	0.22	4.2	1.8	3.0
2	1.3	0.18	0.86	0.47	0.20	0.29	0.25	0.12	0.17	6.7	2.0	4.1
3	0.18	0.11	0.14	1.1	0.24	0.58	2.3	0.12	0.57	6.5	2.4	4.2
4	0.39	0.12	0.17	0.81	0.17	0.34	1.2	0.30	0.56	6.3	3.1	3.9
5	0.36	0.09	0.17	0.23	0.11	0.17	0.71	0.15	0.29	6.3	3.7	5.0
6	0.19	0.08	0.11	0.24	0.10	0.15	0.27	0.12	0.19	5.9	5.0	5.5
7	0.10	0.09	0.09	1.2	0.15	0.28	0.21	0.10	0.15	5.4	5.0	5.2
8	0.11	0.08	0.09	0.52	0.08	0.20	0.22	0.09	0.13	5.4	5.0	5.1
9	0.11	0.09	0.09	1.0	0.23	0.45	0.12	0.08	0.10	5.3	3.8	4.5
10	0.12	0.09	0.09	0.70	0.16	0.28	0.24	0.07	0.09	6.3	4.2	5.2
11	0.10	0.09	0.09	0.95	0.14	0.25	0.15	0.07	0.09	---	---	---
12	0.10	0.08	0.09	0.63	0.13	0.28	0.15	0.07	0.09	---	---	---
13	0.09	0.07	0.08	4.1	0.26	1.1	0.10	0.07	0.08	---	---	---
14	0.13	0.07	0.10	2.1	0.24	0.84	0.09	0.07	0.07	---	---	---
15	0.12	0.07	0.09	0.40	0.10	0.14	0.11	0.06	0.08	---	---	---
16	0.41	0.08	0.12	0.12	0.07	0.10	0.49	0.08	0.16	---	---	---
17	8.5	0.20	2.2	0.07	0.06	0.07	6.4	0.19	0.99	---	---	---
18	2.8	0.88	1.4	0.08	0.06	0.07	7.6	0.73	3.3	---	---	---
19	2.7	1.2	1.8	0.15	0.06	0.08	5.3	0.69	1.7	---	---	---
20	3.2	1.7	2.3	0.44	0.07	0.14	4.7	0.92	1.7	2.3	1.4	1.6
21	3.6	1.7	2.6	1.7	0.19	0.40	3.3	1.3	1.8	1.6	1.3	1.5
22	3.5	2.0	2.6	1.1	0.29	0.49	4.1	1.4	1.7	2.1	1.2	1.4
23	4.9	2.0	2.7	3.5	0.34	1.2	7.1	1.7	3.3	2.1	1.0	1.3
24	3.7	2.2	2.6	4.8	0.52	1.6	10.6	2.1	3.9	2.2	0.94	1.2
25	3.2	2.5	3.0	4.1	0.67	1.4	9.8	2.6	4.4	2.7	1.5	2.1
26	3.2	2.4	2.6	1.1	0.15	0.52	5.9	4.1	5.2	3.0	2.4	2.7
27	3.6	2.4	3.0	0.87	0.21	0.43	5.8	3.8	4.7	3.3	1.6	2.5
28	3.2	2.5	2.9	3.0	0.18	0.33	5.5	2.9	3.8	2.9	2.2	2.5
29	2.7	0.61	1.8	3.2	0.55	1.2	5.7	2.0	3.4	3.0	1.7	2.2
30	1.6	0.58	0.92	0.99	0.30	0.68	5.4	3.1	4.3	4.3	1.7	3.3
31	---	---	---	0.62	0.16	0.28	3.6	2.6	3.1	---	---	---
MONTH	8.5	0.07	1.2	4.8	0.06	0.48	10.6	0.06	1.6	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	0.09	0.06	0.07	---	---	---	5.4	0.35	1.8	9.0	7.8	8.7
2	0.07	0.06	0.06	7.4	5.9	7.1	1.9	0.33	1.1	9.0	8.8	8.9
3	0.08	0.06	0.07	7.3	5.7	6.7	2.7	0.55	1.5	9.0	8.9	9.0
4	0.10	0.06	0.07	6.5	3.4	5.4	---	---	---	9.0	8.5	8.8
5	0.09	0.06	0.07	5.3	2.9	3.9	5.2	2.8	4.3	9.0	8.8	8.9
6	0.09	0.07	0.07	5.1	4.2	4.6	5.3	5.0	5.2	8.9	6.4	8.3
7	0.08	0.06	0.07	---	---	---	5.4	0.18	3.5	8.8	7.6	8.5
8	0.08	0.07	0.07	5.2	2.4	4.4	3.1	0.16	0.98	8.8	3.4	7.6
9	0.08	0.07	0.07	4.5	2.1	3.3	4.9	2.0	4.1	8.3	7.5	8.0
10	0.08	0.07	0.07	5.4	3.7	4.6	3.7	0.07	0.49	8.5	7.2	7.9
11	0.08	0.07	0.08	6.0	4.4	5.3	0.09	0.06	0.07	9.0	7.8	8.6
12	0.08	0.07	0.07	5.7	3.4	4.8	5.3	0.07	2.2	8.5	7.5	8.2
13	0.08	0.07	0.07	4.4	2.4	3.3	---	---	---	8.3	1.2	5.9
14	0.08	0.07	0.07	4.0	2.0	2.9	8.6	6.5	8.0	2.5	0.52	1.4
15	0.09	0.07	0.08	4.6	2.7	3.8	7.8	3.5	5.2	3.2	0.95	1.8
16	0.09	0.07	0.08	5.5	4.5	5.1	5.4	3.9	4.9	2.5	0.48	1.6
17	0.10	0.07	0.08	6.2	5.4	5.8	6.0	3.8	5.1	2.7	1.3	2.1
18	5.6	0.08	2.8	7.8	6.1	6.8	6.5	5.5	6.1	2.6	0.45	1.3
19	0.87	0.11	0.23	8.5	7.4	8.0	7.4	6.0	6.6	1.9	0.53	1.5
20	5.5	0.09	0.86	8.8	8.1	8.6	7.6	3.7	4.9	8.3	0.65	5.0
21	6.9	4.7	6.2	8.8	7.8	8.3	4.9	2.2	4.0	10.4	8.3	9.9
22	9.9	6.8	8.1	8.7	7.8	8.4	4.7	2.4	3.6	10.4	8.8	10.2
23	9.9	5.5	7.7	8.5	7.4	8.3	4.7	0.42	2.6	9.7	2.9	5.2
24	8.6	6.7	7.9	8.5	1.6	6.7	2.9	0.55	1.6	4.5	2.2	3.5
25	8.4	7.8	8.1	5.0	0.83	2.0	5.2	2.9	4.3	4.1	1.1	3.1
26	8.6	7.1	8.1	5.3	2.5	3.8	5.4	1.3	2.8	3.7	3.1	3.4
27	8.3	7.3	7.7	6.1	4.7	5.5	2.5	1.7	2.2	6.4	3.3	5.3
28	8.1	6.7	7.7	5.2	2.0	4.0	3.6	1.7	2.6	6.7	5.6	6.4
29	7.8	6.5	7.3	5.6	2.1	4.9	5.8	2.3	3.4	6.7	6.2	6.4
30	7.5	5.6	7.1	5.7	4.4	5.4	7.7	5.5	6.5	6.3	1.6	4.5
31	7.6	6.0	7.1	---	---	---	8.7	7.5	8.2	6.2	2.7	4.6
MONTH	9.9	0.06	2.8	---	---	---	---	---	---	10.4	0.45	6.0
		FEBRUARY			MARCH			APRIL			MAY	
1	6.2	5.5	6.0	2.4	0.11	1.2	0.05	0.04	0.05	0.96	0.24	0.57
2	6.0	4.8	5.6	1.2	0.14	0.46	0.07	0.04	0.05	0.91	0.23	0.50
3	5.5	1.3	4.2	4.3	0.74	1.6	0.07	0.04	0.05	1.7	0.18	0.92
4	3.4	1.1	1.6	4.5	0.61	2.6	0.06	0.05	0.05	1.8	0.24	1.3
5	2.6	0.87	1.4	5.4	0.08	2.0	0.06	0.04	0.05	2.7	0.43	1.4
6	3.3	0.93	2.5	5.4	3.5	5.0	0.05	0.04	0.05	4.4	0.35	1.7
7	---	---	---	5.0	0.07	2.0	0.05	0.04	0.05	0.85	0.29	0.54
8	---	---	---	0.95	0.05	0.19	0.05	0.04	0.05	1.6	0.13	0.45
9	4.5	1.7	3.6	0.58	0.09	0.34	0.05	0.04	0.05	3.6	0.11	1.7
10	5.0	1.6	3.9	2.7	0.05	0.36	0.05	0.04	0.05	3.7	0.06	1.7
11	---	---	---	0.09	0.05	0.05	0.06	0.04	0.05	0.16	0.05	0.07
12	4.0	1.5	2.5	0.20	0.05	0.07	0.06	0.05	0.05	4.4	0.05	0.41
13	4.9	2.2	4.0	0.62	0.07	0.24	0.06	0.05	0.05	4.9	0.06	0.58
14	4.5	0.15	2.3	0.30	0.05	0.09	0.05	0.05	0.05	0.10	0.04	0.06
15	2.4	0.14	1.3	0.36	0.05	0.08	0.05	0.04	0.05	0.05	0.04	0.05
16	---	---	---	3.2	0.05	0.96	0.05	0.04	0.05	0.06	0.05	0.05
17	6.1	4.2	5.5	1.9	0.08	0.61	0.06	0.04	0.05	0.05	0.05	0.05
18	8.6	4.8	6.2	0.08	0.05	0.06	0.07	0.05	0.06	0.06	0.05	0.05
19	9.5	6.5	8.4	0.06	0.05	0.05	0.05	0.04	0.05	0.06	0.06	0.06
20	8.6	4.4	7.2	0.07	0.06	0.06	0.05	0.04	0.05	0.06	0.05	0.06
21	7.0	2.1	4.7	0.12	0.05	0.06	0.05	0.04	0.05	0.07	0.05	0.06
22	8.1	4.8	6.4	0.19	0.05	0.06	0.05	0.04	0.05	0.07	0.06	0.06
23	7.9	5.1	6.6	0.06	0.04	0.05	0.05	0.04	0.05	0.07	0.06	0.06
24	7.3	1.4	5.4	0.06	0.05	0.05	0.05	0.04	0.05	0.08	0.06	0.07
25	6.2	1.7	3.7	0.05	0.04	0.05	0.05	0.05	0.05	0.53	0.07	0.13
26	6.3	4.9	5.7	0.04	0.04	0.04	0.06	0.05	0.05	0.12	0.07	0.08
27	5.6	3.7	5.1	0.04	0.04	0.04	0.07	0.05	0.05	0.08	0.07	0.07
28	5.4	1.6	2.9	0.05	0.04	0.04	5.6	0.05	3.4	0.08	0.06	0.07
29	---	---	---	0.05	0.04	0.05	5.3	0.54	4.3	0.09	0.07	0.07
30	---	---	---	0.06	0.04	0.05	1.5	0.07	0.38	1.3	0.07	0.33
31	---	---	---	0.05	0.04	0.04	---	---	---	2.7	0.11	1.6
MONTH	---	---	---	5.4	0.04	0.60	5.6	0.04	0.31	4.9	0.04	0.48

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	2.5	0.45	1.1	2.5	0.39	1.7	4.8	0.33	3.2	7.0	3.7	5.8
2	1.4	0.39	0.94	2.0	0.29	1.1	5.7	4.8	5.3	7.5	7.0	7.2
3	0.87	0.15	0.40	2.7	0.28	1.5	5.7	4.9	5.5	7.5	6.5	7.2
4	2.1	0.23	0.91	2.2	0.32	1.2	5.9	4.2	5.6	7.2	5.4	6.5
5	2.8	0.46	2.0	1.0	0.11	0.32	5.4	0.31	4.0	6.5	5.0	5.8
6	2.3	0.10	1.3	1.8	0.10	0.40	4.6	0.10	1.3	6.5	5.1	5.8
7	0.97	0.09	0.28	3.8	0.20	2.5	1.6	0.10	0.21	6.0	5.0	5.3
8	0.99	0.09	0.39	1.2	0.09	0.34	0.76	0.09	0.19	5.9	5.0	5.3
9	0.22	0.09	0.10	2.3	0.64	1.3	1.3	0.10	0.42	6.0	4.8	5.4
10	0.12	0.09	0.09	3.2	0.63	2.1	3.5	0.07	1.8	6.3	4.7	5.6
11	0.11	0.09	0.10	4.0	2.2	3.2	3.9	2.8	3.4	---	---	---
12	0.11	0.08	0.09	5.4	2.6	4.3	3.8	0.12	2.9	---	---	---
13	0.09	0.07	0.08	5.7	1.3	4.2	3.5	0.07	1.7	---	---	---
14	0.21	0.07	0.11	3.3	0.33	2.7	3.4	0.07	0.56	---	---	---
15	0.16	0.08	0.09	2.1	0.10	0.52	4.9	0.07	2.5	---	---	---
16	6.3	0.08	2.1	0.21	0.07	0.11	5.9	3.2	5.2	---	---	---
17	10	6.3	9.2	0.08	0.06	0.07	8.9	5.3	7.1	---	---	---
18	10.4	9.4	9.9	0.46	0.06	0.09	9.7	8.6	9.0	---	---	---
19	11.0	9.1	10.1	4.7	0.06	1.7	9.7	7.8	9.2	---	---	---
20	11.1	9.5	10.6	5.4	2.6	4.5	10.7	7.4	9.5	5.6	1.9	4.3
21	10.9	5.9	10.2	6.0	1.1	5.0	10.0	5.6	9.3	6.2	1.9	4.7
22	7.7	4.7	6.3	5.6	0.99	4.6	10.6	9.0	10.1	6.2	4.5	5.7
23	9.3	6.4	7.9	6.6	1.9	4.6	10.5	9.0	10.2	5.7	3.3	4.8
24	8.2	5.1	7.0	8.3	6.4	7.5	10.9	8.8	10.3	7.2	4.1	5.9
25	6.7	5.6	6.2	7.6	2.7	6.4	11.0	10.1	10.6	7.1	5.4	6.4
26	6.2	3.8	5.0	8.5	3.5	7.0	10.7	9.4	10.3	5.4	2.8	4.3
27	5.3	3.5	4.5	8.5	6.8	7.8	10.6	6.7	8.8	4.0	2.4	3.3
28	3.8	3.1	3.5	8.1	6.2	7.5	8.5	5.9	7.0	3.8	2.3	3.2
29	3.2	1.6	2.7	8.0	1.0	4.1	7.8	6.0	6.8	4.0	2.4	3.4
30	3.0	1.2	2.5	3.4	0.36	1.6	6.7	3.7	6.0	4.5	2.7	3.7
31	---	---	---	2.7	0.18	1.9	5.5	3.4	4.2	---	---	---
MONTH	11.1	0.07	3.5	8.5	0.06	3.0	11.0	0.07	5.6	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.8	6.9	---	---	---	7.3	7.0	7.2	7.2	7.2	7.2
2	6.9	6.7	6.8	7.2	6.8	7.1	7.2	7.1	7.2	7.3	7.1	7.2
3	7.0	6.8	6.9	7.3	6.9	7.1	7.2	7.0	7.2	7.2	7.1	7.2
4	7.0	6.8	6.9	7.4	6.9	7.2	---	---	---	7.3	7.2	7.2
5	7.0	6.8	6.9	7.3	7.0	7.2	7.1	7.0	7.0	7.4	7.2	7.3
6	7.0	6.9	7.0	---	---	---	7.0	7.0	7.0	7.4	7.2	7.3
7	7.4	6.8	7.1	---	---	---	7.1	7.0	7.0	7.5	7.2	7.4
8	7.5	7.1	7.3	---	---	---	7.1	7.1	7.1	7.4	7.2	7.2
9	7.3	7.0	7.1	---	---	---	7.1	7.0	7.0	7.3	7.1	7.3
10	7.2	7.0	7.1	---	---	---	7.1	7.0	7.1	7.3	7.1	7.2
11	7.2	7.0	7.1	7.6	7.3	7.4	7.2	7.1	7.2	7.2	6.9	7.1
12	7.2	7.0	7.1	7.7	7.3	7.4	7.3	7.2	7.2	7.0	6.9	7.0
13	7.2	7.0	7.1	7.5	7.2	7.4	---	---	---	7.1	7.0	7.0
14	7.2	7.1	7.2	7.6	7.5	7.5	7.4	7.2	7.3	7.4	7.1	7.3
15	7.3	7.1	7.2	7.5	7.3	7.4	7.4	7.3	7.4	7.5	7.4	7.4
16	7.4	7.2	7.3	7.4	7.1	7.2	7.8	7.3	7.4	7.4	7.1	7.3
17	7.4	7.2	7.3	7.4	7.2	7.3	8.0	7.2	7.3	7.3	7.1	7.2
18	7.2	7.0	7.2	7.3	7.2	7.2	7.5	7.2	7.3	7.3	7.1	7.2
19	7.2	7.0	7.1	7.2	7.1	7.2	7.9	7.3	7.4	7.1	6.9	7.0
20	7.2	7.1	7.1	7.2	7.0	7.2	7.6	7.3	7.5	7.0	6.8	6.9
21	7.2	7.1	7.2	7.2	7.0	7.1	7.6	7.4	7.5	7.3	6.7	6.9
22	7.3	6.9	7.0	7.2	7.0	7.0	7.5	7.3	7.4	7.2	6.8	6.9
23	7.3	6.9	7.0	7.1	7.0	7.1	7.4	7.3	7.3	7.3	7.0	7.2
24	7.1	6.8	6.9	7.1	7.0	7.0	7.5	7.4	7.4	7.3	7.0	7.1
25	7.0	6.8	6.9	7.4	7.0	7.2	7.4	7.3	7.4	7.0	6.9	6.9
26	7.1	6.8	7.0	7.4	7.3	7.4	7.6	7.4	7.5	6.9	6.8	6.8
27	7.0	6.8	6.9	7.4	7.1	7.3	7.7	7.4	7.6	7.0	6.8	7.0
28	7.0	6.8	6.8	7.3	7.1	7.2	7.4	7.3	7.4	7.2	7.0	7.1
29	---	---	---	7.4	7.1	7.2	7.4	7.3	7.4	7.1	6.9	7.0
30	---	---	---	7.2	7.0	7.1	7.4	7.2	7.3	7.2	7.0	7.1
31	---	---	---	---	---	---	7.2	7.1	7.2	7.2	7.0	7.2
MONTH	---	---	---	---	---	---	---	---	---	7.5	6.7	7.1
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	7.0	7.1	7.4	7.2	7.2	7.0	6.8	6.9	7.2	7.0	7.1
2	7.2	7.0	7.1	7.5	7.2	7.3	7.3	6.9	7.0	7.3	7.1	7.2
3	7.3	7.2	7.2	7.6	7.3	7.5	7.3	7.0	7.1	7.5	7.1	7.2
4	7.3	7.2	7.3	7.3	7.1	7.2	7.3	7.0	7.1	7.8	7.2	7.5
5	7.4	7.3	7.4	7.2	7.1	7.1	7.1	6.9	7.0	7.7	7.3	7.5
6	7.3	7.2	7.2	7.3	7.1	7.2	7.0	6.8	6.9	7.5	7.3	7.4
7	---	---	---	7.2	7.0	7.1	7.1	6.8	6.9	7.3	6.9	7.1
8	---	---	---	7.4	7.0	7.2	7.1	6.8	6.9	7.0	6.8	7.0
9	7.2	7.0	7.1	7.4	7.1	7.3	7.1	6.8	7.0	7.0	6.7	6.8
10	7.4	7.1	7.2	7.4	7.1	7.2	7.1	6.8	6.9	6.8	6.5	6.7
11	---	---	---	7.6	7.3	7.4	6.9	6.7	6.8	6.7	6.5	6.6
12	7.6	7.4	7.5	7.6	7.3	7.4	6.9	6.8	6.9	6.8	6.5	6.6
13	7.5	7.3	7.4	8.1	7.5	7.6	7.0	6.8	6.9	6.8	6.6	6.7
14	7.4	7.3	7.3	7.6	7.3	7.5	7.1	7.0	7.0	6.7	6.5	6.6
15	7.4	7.2	7.3	7.4	7.0	7.2	7.2	6.9	7.1	6.6	6.5	6.6
16	---	---	---	7.4	7.0	7.1	7.2	6.8	6.9	6.7	6.6	6.6
17	7.7	7.3	7.5	7.4	7.2	7.4	6.8	6.7	6.8	6.9	6.7	6.8
18	7.6	7.4	7.5	7.2	7.1	7.2	6.9	6.8	6.8	7.0	6.7	6.8
19	7.8	7.5	7.6	7.2	7.0	7.1	6.8	6.7	6.8	7.0	6.8	6.9
20	8.2	7.5	7.8	7.2	7.0	7.1	6.8	6.7	6.8	7.0	6.8	6.9
21	7.6	7.4	7.5	7.2	7.0	7.1	6.8	6.7	6.8	7.2	7.0	7.1
22	7.8	7.4	7.5	7.2	7.0	7.1	6.9	6.6	6.8	7.2	7.0	7.1
23	7.9	7.4	7.6	7.2	6.9	7.1	6.9	6.8	6.8	7.2	7.0	7.1
24	7.8	7.4	7.6	7.0	6.8	7.0	7.0	6.9	6.9	7.5	7.1	7.2
25	7.5	7.3	7.4	6.9	6.8	6.9	7.0	6.9	7.0	7.3	7.2	7.3
26	7.4	7.2	7.3	6.9	6.7	6.8	7.0	6.9	6.9	7.3	6.9	7.1
27	7.6	7.2	7.4	6.8	6.7	6.7	7.0	6.8	6.9	7.1	6.9	7.0
28	7.8	7.3	7.6	7.0	6.7	6.8	7.1	6.9	7.0	7.2	7.0	7.1
29	---	---	---	7.0	6.8	6.9	7.0	6.9	7.0	7.5	7.1	7.2
30	---	---	---	7.0	6.8	6.9	7.2	6.9	7.0	7.3	7.1	7.2
31	---	---	---	7.0	6.8	6.9	---	---	---	7.5	7.0	7.2
MONTH	---	---	---	8.1	6.7	7.1	7.3	6.6	6.9	7.8	6.5	7.0

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.1	7.2	7.6	7.1	7.2	6.9	6.7	6.8	9.2	7.3	8.3
2	7.3	7.0	7.2	8.1	7.0	7.3	7.0	6.7	6.8	8.7	6.9	7.5
3	7.0	6.8	6.9	8.8	7.2	7.8	6.9	6.6	6.7	8.6	6.8	7.5
4	7.0	6.8	6.9	8.6	7.4	7.8	6.9	6.7	6.7	8.4	6.8	7.9
5	7.0	6.7	6.8	8.5	7.3	7.7	6.9	6.7	6.8	8.1	7.2	7.7
6	7.0	6.7	6.9	8.3	7.4	7.7	7.5	6.8	7.0	8.0	7.6	7.8
7	7.2	6.9	7.0	8.3	6.9	7.7	7.4	6.8	7.1	8.0	7.5	7.8
8	7.9	7.0	7.3	8.7	7.2	7.8	7.6	7.0	7.2	8.0	7.2	7.6
9	7.8	7.3	7.5	8.3	7.1	7.5	7.3	7.0	7.1	7.7	7.0	7.3
10	8.7	7.3	7.7	8.4	7.0	7.8	7.6	6.8	7.0	7.6	7.0	7.4
11	8.8	7.5	8.0	8.5	7.1	7.6	7.0	6.7	6.9	---	---	---
12	9.1	7.5	8.1	8.4	7.1	7.6	7.1	6.6	7.0	---	---	---
13	8.0	7.1	7.4	7.6	7.0	7.2	7.3	6.8	7.0	---	---	---
14	8.7	7.2	7.7	7.3	7.0	7.2	7.3	7.0	7.1	---	---	---
15	9.0	7.3	7.9	7.2	7.0	7.1	8.7	7.0	7.5	---	---	---
16	8.9	7.8	8.2	7.2	7.0	7.1	7.8	6.8	7.1	---	---	---
17	8.1	7.0	7.6	7.2	6.9	7.0	7.5	6.8	7.0	---	---	---
18	8.9	7.2	7.9	7.1	6.9	6.9	7.4	6.8	7.0	---	---	---
19	9.1	8.1	8.7	7.1	6.9	7.0	8.0	6.8	7.3	---	---	---
20	8.8	8.2	8.5	7.8	6.9	7.3	8.9	6.8	7.9	7.2	6.8	6.9
21	8.4	7.3	7.7	7.6	7.2	7.4	8.2	7.1	7.6	7.4	6.9	7.1
22	8.6	7.3	7.9	7.6	7.2	7.3	8.8	7.2	8.0	8.0	7.0	7.3
23	8.6	6.9	8.0	7.9	7.0	7.4	7.5	6.8	7.1	8.4	7.0	7.5
24	8.4	7.2	8.1	7.4	7.0	7.2	7.7	6.9	7.3	8.0	6.9	7.3
25	8.0	7.6	7.8	7.3	6.9	7.2	7.8	6.9	7.3	7.7	7.2	7.4
26	8.1	7.3	7.6	7.2	6.7	6.9	8.0	7.2	7.5	7.9	7.2	7.5
27	7.9	6.9	7.4	6.8	6.6	6.6	8.3	7.6	7.9	8.4	7.1	7.6
28	8.2	7.4	7.7	8.5	6.7	7.2	8.4	7.2	7.8	8.4	7.7	7.9
29	7.9	7.2	7.4	7.8	6.8	7.1	8.2	7.1	7.7	8.5	7.1	7.9
30	8.3	7.2	7.4	7.1	6.9	7.0	8.6	7.3	7.8	8.3	7.3	7.5
31	---	---	---	7.0	6.8	6.8	8.6	7.6	8.2	---	---	---
MONTH	9.1	6.7	7.6	8.8	6.6	7.3	8.9	6.6	7.3	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.8	6.9	---	---	---	7.2	7.0	7.1	7.5	7.4	7.5
2	7.0	6.8	6.9	6.6	6.6	6.6	7.2	7.0	7.1	7.4	7.4	7.4
3	6.9	6.8	6.8	6.7	6.6	6.6	7.2	7.0	7.1	7.4	7.3	7.3
4	7.0	6.8	6.9	7.0	6.6	6.7	---	---	---	7.4	7.2	7.3
5	7.0	6.8	6.9	7.1	6.7	6.9	7.0	7.0	7.0	7.3	7.2	7.3
6	7.1	7.0	7.0	7.0	6.9	6.9	7.0	7.0	7.0	7.3	7.1	7.2
7	7.3	6.9	7.1	---	---	---	7.0	6.8	7.0	7.2	7.1	7.2
8	7.3	7.0	7.1	7.3	6.8	7.0	7.1	6.9	7.0	7.2	7.0	7.1
9	7.2	7.0	7.1	7.3	7.1	7.2	7.0	6.9	6.9	7.2	7.1	7.2
10	7.0	6.9	7.0	7.2	7.0	7.0	7.1	6.8	7.0	7.2	7.1	7.1
11	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.0	7.1	7.1	6.9	7.0
12	7.1	6.9	7.0	7.0	6.9	6.9	7.2	6.9	7.0	7.0	6.9	6.9
13	7.1	6.9	7.0	7.3	6.8	7.1	---	---	---	7.2	6.9	7.0
14	7.1	7.0	7.1	7.4	7.2	7.3	7.2	7.0	7.0	7.4	7.2	7.3
15	7.2	7.0	7.1	7.3	7.1	7.2	7.5	7.2	7.3	7.5	7.4	7.4
16	7.3	7.1	7.2	7.4	7.1	7.2	7.6	7.3	7.4	7.5	7.2	7.4
17	7.3	7.0	7.1	7.4	7.3	7.3	7.4	7.2	7.3	7.3	7.2	7.2
18	7.1	6.6	6.8	7.3	7.2	7.3	7.5	7.3	7.4	7.3	7.2	7.3
19	7.0	6.9	7.0	7.2	7.1	7.1	7.4	7.2	7.4	7.3	7.1	7.2
20	7.0	6.6	6.9	7.1	7.0	7.0	7.6	7.2	7.4	7.3	7.0	7.2
21	6.7	6.7	6.7	7.1	7.0	7.0	7.6	7.4	7.5	7.3	7.2	7.3
22	6.8	6.7	6.7	7.0	7.0	7.0	7.5	7.4	7.4	7.3	7.2	7.2
23	6.9	6.8	6.8	7.0	6.9	7.0	7.5	7.3	7.4	7.6	7.1	7.3
24	6.8	6.6	6.7	7.0	6.9	6.9	7.5	7.3	7.4	7.3	7.2	7.3
25	6.8	6.6	6.7	7.2	6.9	7.1	7.7	7.4	7.5	7.3	7.0	7.2
26	6.8	6.7	6.7	7.3	7.0	7.2	7.7	7.5	7.6	7.1	7.0	7.0
27	6.7	6.7	6.7	7.1	7.0	7.0	7.7	7.5	7.6	7.2	7.1	7.2
28	6.7	6.6	6.7	7.2	7.0	7.1	7.6	7.5	7.6	7.2	7.2	7.2
29	6.8	6.6	6.7	7.3	7.0	7.1	7.6	7.5	7.6	7.2	7.1	7.2
30	6.8	6.6	6.7	7.1	7.0	7.0	7.7	7.5	7.6	7.2	7.0	7.1
31	6.7	6.6	6.6	---	---	---	7.6	7.5	7.5	7.3	7.0	7.2
MONTH	7.3	6.6	6.9	---	---	---	---	---	---	7.6	6.9	7.2
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.1	7.2	7.3	7.1	7.3	7.0	6.8	6.8	7.2	7.1	7.2
2	7.3	7.1	7.2	7.5	7.2	7.4	7.3	6.9	7.0	7.3	7.0	7.1
3	7.3	7.2	7.2	7.6	7.4	7.5	7.3	6.9	7.1	7.2	7.0	7.1
4	7.4	7.1	7.3	7.6	7.2	7.4	7.3	7.0	7.1	7.7	6.9	7.1
5	7.4	7.2	7.3	7.4	6.9	7.2	7.2	6.8	7.0	7.9	6.9	7.4
6	7.3	7.1	7.3	7.5	7.3	7.4	7.0	6.9	7.0	7.5	7.2	7.3
7	---	---	---	7.3	6.9	7.1	7.2	6.9	7.0	7.2	6.9	7.0
8	---	---	---	7.4	7.0	7.2	7.2	7.0	7.1	7.0	6.7	6.9
9	7.3	7.0	7.2	7.4	7.1	7.3	7.3	7.0	7.2	6.9	6.6	6.8
10	7.4	7.0	7.2	7.5	7.0	7.2	7.2	6.8	7.0	6.8	6.4	6.6
11	---	---	---	7.7	7.3	7.4	6.9	6.8	6.9	6.6	6.3	6.5
12	7.5	7.3	7.4	7.8	7.4	7.6	7.0	6.9	6.9	6.7	6.4	6.5
13	7.5	7.2	7.4	8.0	7.4	7.6	7.1	6.9	7.0	6.8	6.5	6.6
14	7.4	7.1	7.3	7.7	7.5	7.6	7.2	7.0	7.1	6.5	6.3	6.4
15	7.3	7.1	7.2	7.6	7.2	7.4	7.2	6.9	7.1	6.4	6.3	6.4
16	---	---	---	7.7	7.1	7.3	7.2	6.8	6.9	6.5	6.4	6.4
17	7.3	7.2	7.3	7.7	7.3	7.5	6.9	6.7	6.8	6.7	6.5	6.6
18	7.3	7.1	7.2	7.3	7.2	7.2	6.9	6.7	6.8	6.7	6.5	6.6
19	7.2	7.0	7.0	7.2	7.1	7.2	6.8	6.6	6.7	6.8	6.6	6.7
20	7.3	7.0	7.1	7.2	7.1	7.2	6.8	6.6	6.7	6.8	6.6	6.7
21	7.2	6.9	7.1	7.2	7.1	7.2	6.7	6.6	6.7	7.0	6.8	6.9
22	7.1	6.9	7.0	7.2	7.0	7.1	6.8	6.6	6.7	7.0	6.8	6.9
23	7.1	6.9	7.0	7.2	6.9	7.1	6.9	6.7	6.8	7.0	6.9	6.9
24	7.5	6.9	7.0	7.1	6.9	7.0	7.0	6.8	6.9	7.2	6.9	7.0
25	7.4	7.0	7.2	7.0	6.9	6.9	7.0	6.8	6.9	7.2	7.1	7.1
26	7.3	7.0	7.1	6.9	6.8	6.8	6.9	6.8	6.9	7.2	6.9	7.0
27	7.6	7.0	7.2	6.8	6.7	6.8	6.9	6.8	6.8	7.1	6.8	6.9
28	7.8	7.0	7.5	6.9	6.7	6.8	6.9	6.7	6.7	7.0	6.8	6.9
29	---	---	---	7.0	6.8	6.9	7.0	6.7	6.7	7.1	6.9	7.0
30	---	---	---	7.0	6.8	6.9	7.2	6.8	7.1	7.1	6.8	7.0
31	---	---	---	7.0	6.8	6.9	---	---	---	7.4	6.7	6.8
MONTH	---	---	---	8.0	6.7	7.2	7.3	6.6	6.9	7.9	6.3	6.8

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	6.7	7.1	7.1	6.9	7.0	7.1	6.9	6.9	7.8	7.0	7.2
2	7.3	7.0	7.2	7.0	6.8	6.9	7.0	7.0	7.0	7.2	7.0	7.2
3	7.1	6.8	6.9	8.5	6.8	7.1	7.1	7.0	7.0	7.2	7.0	7.1
4	6.9	6.7	6.8	8.0	6.8	7.0	7.1	6.8	7.0	7.5	7.0	7.1
5	6.8	6.7	6.7	7.4	6.8	7.1	7.0	6.7	6.9	8.0	7.1	7.6
6	6.8	6.4	6.6	7.5	6.8	7.2	6.8	6.6	6.7	8.1	7.6	7.9
7	6.9	6.5	6.7	7.6	6.8	6.9	7.3	6.6	6.9	8.1	7.4	7.9
8	7.0	6.7	6.8	7.9	6.9	7.4	7.4	6.8	7.1	8.0	7.2	7.5
9	7.5	7.0	7.2	7.2	6.9	7.0	7.0	6.7	6.8	7.6	7.2	7.3
10	8.5	7.0	7.4	7.1	6.9	6.9	7.0	6.7	6.8	7.6	7.1	7.4
11	8.6	7.4	7.8	7.0	6.8	6.9	7.0	6.7	6.9	---	---	---
12	9.0	7.5	8.0	7.1	6.9	7.0	7.2	6.9	7.1	---	---	---
13	7.8	7.2	7.4	7.2	6.9	7.1	7.5	6.9	7.2	---	---	---
14	7.7	7.2	7.4	7.1	6.9	7.0	7.6	6.9	7.3	---	---	---
15	8.0	6.9	7.2	7.0	6.8	7.0	7.6	7.1	7.4	---	---	---
16	7.2	6.6	6.8	7.0	6.7	6.9	7.5	7.3	7.5	---	---	---
17	6.9	6.7	6.9	6.8	6.7	6.7	7.6	7.4	7.6	---	---	---
18	7.0	6.8	6.9	6.9	6.7	6.7	7.6	7.1	7.4	---	---	---
19	7.0	6.8	7.0	6.9	6.7	6.8	7.2	7.0	7.2	---	---	---
20	7.0	6.8	7.0	6.9	6.7	6.8	7.2	7.0	7.1	6.8	6.7	6.8
21	7.1	6.7	7.0	6.9	6.7	6.8	7.2	6.7	7.1	6.8	6.8	6.8
22	6.9	6.7	6.8	6.9	6.8	6.8	7.0	7.0	7.0	6.8	6.8	6.8
23	7.0	6.7	6.8	7.0	6.8	6.8	7.2	7.0	7.1	6.9	6.8	6.8
24	6.9	6.7	6.8	7.1	6.8	6.9	7.2	7.1	7.2	6.9	6.8	6.8
25	6.9	6.7	6.8	7.0	6.8	6.9	7.2	7.1	7.1	6.9	6.8	6.8
26	7.2	6.8	7.0	7.1	6.7	7.0	7.3	7.1	7.2	7.3	6.8	7.0
27	7.2	7.0	7.1	7.2	7.0	7.1	7.4	6.8	7.1	8.1	7.1	7.3
28	8.1	7.0	7.3	7.2	7.0	7.2	7.6	6.8	7.0	8.3	7.0	7.4
29	7.8	7.2	7.4	7.3	6.8	7.0	7.1	6.8	6.9	7.8	6.9	7.1
30	7.8	7.0	7.3	7.1	6.8	7.0	7.4	6.8	6.9	7.4	7.0	7.3
31	---	---	---	7.1	6.8	6.9	8.2	6.9	7.5	---	---	---
MONTH	9.0	6.4	7.1	8.5	6.7	7.0	8.2	6.6	7.1	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.3	23.6	23.9	---	---	---	13.5	12.6	13.0	6.7	5.5	6.0
2	25.8	23.9	24.3	20.8	19.9	20.4	12.7	11.5	12.0	7.4	6.1	6.6
3	26.2	24.6	25.4	20.9	20.1	20.5	12.3	11.5	11.9	7.8	6.7	7.1
4	25.7	24.6	25.2	20.4	19.6	20.0	---	---	---	9.9	7.1	8.6
5	25.5	24.5	24.8	19.9	18.4	19.3	11.3	10.3	10.7	11.0	8.9	10.0
6	24.5	23.1	23.6	---	---	---	11.0	10.3	10.5	11.4	9.8	10.7
7	23.3	22.1	22.7	---	---	---	12.1	10.2	11.0	12.8	8.1	11.7
8	23.4	21.8	22.6	---	---	---	14.0	11.9	12.8	12.8	11.4	12.2
9	23.4	22.1	22.7	---	---	---	13.6	12.0	12.6	12.7	11.8	12.4
10	23.3	22.0	22.5	---	---	---	14.2	12.6	13.6	13.1	11.7	12.3
11	22.6	21.5	21.9	15.6	13.9	14.7	14.1	13.0	13.6	12.9	9.7	12.2
12	21.8	20.3	21.0	16.7	15.2	16.0	13.0	11.9	12.4	13.3	12.0	12.6
13	20.9	20.6	20.7	16.5	14.1	15.6	---	---	---	14.7	13.2	13.8
14	21.0	20.5	20.7	14.2	12.8	13.7	12.1	10.3	11.0	15.4	13.9	14.8
15	20.7	19.9	20.4	13.1	12.1	12.8	10.5	9.0	9.8	13.9	11.5	12.8
16	20.0	18.8	19.3	12.8	11.4	12.2	9.9	7.8	8.9	11.8	10.2	11.0
17	19.1	18.4	18.8	13.4	10.9	12.3	9.9	7.7	8.9	10.3	8.4	9.4
18	19.0	18.2	18.6	13.4	12.0	12.9	10.0	8.4	9.4	8.4	5.7	6.7
19	20.5	18.8	19.7	13.1	11.8	12.6	10.2	8.7	9.5	6.5	5.2	5.7
20	20.7	20.2	20.5	13.1	12.1	12.6	9.1	6.3	7.8	6.1	5.0	5.6
21	20.2	19.4	19.8	13.2	12.5	12.8	7.0	4.2	5.5	6.2	5.1	5.4
22	20.2	18.7	19.5	13.4	12.7	12.9	6.7	5.0	6.0	6.1	4.1	4.9
23	20.1	18.1	19.0	13.8	13.1	13.4	8.2	6.4	7.3	5.9	3.2	4.8
24	19.7	17.5	18.5	14.7	13.5	13.9	8.2	6.9	7.8	3.2	1.8	2.6
25	19.6	17.5	18.7	15.8	14.5	15.1	6.9	6.0	6.4	3.5	2.2	2.9
26	19.0	16.9	18.1	14.5	12.4	13.3	6.2	5.5	6.0	4.2	3.1	3.6
27	19.0	17.8	18.5	14.0	12.1	12.8	5.7	4.6	5.3	4.6	3.8	4.2
28	19.2	17.9	18.8	14.3	13.6	13.9	5.4	3.8	4.6	4.2	3.0	3.6
29	---	---	---	13.6	12.4	12.9	6.2	4.5	5.4	3.8	2.6	3.2
30	---	---	---	13.2	11.9	12.7	5.7	4.8	5.3	4.2	3.5	3.8
31	---	---	---	---	---	---	6.1	4.7	5.2	4.6	3.7	4.1
MONTH	---	---	---	---	---	---	---	---	---	15.4	1.8	7.9
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	4.1	4.5	9.6	8.5	9.2	19.0	16.9	17.7	19.7	19.2	19.5
2	5.5	4.0	4.8	8.5	7.4	8.0	18.7	16.9	18.1	20.6	18.9	19.7
3	5.4	4.8	5.1	8.3	7.1	7.8	16.9	15.1	15.9	21.7	18.8	19.8
4	5.3	4.9	5.1	9.4	6.8	8.0	16.9	15.0	15.9	21.1	19.5	20.2
5	6.2	5.0	5.5	8.8	7.7	8.2	17.7	16.2	16.9	20.3	18.5	19.3
6	7.0	5.4	6.2	9.6	7.6	8.6	18.8	16.8	17.5	18.5	15.9	17.2
7	---	---	---	10.4	8.3	9.3	19.2	17.5	18.3	16.9	15.0	15.9
8	---	---	---	10.9	9.7	10.3	20.1	18.4	19.0	17.8	16.0	16.9
9	9.1	7.3	8.2	9.7	8.5	9.2	19.7	17.7	18.7	19.9	16.4	18.0
10	9.1	7.7	8.7	10.2	8.7	9.4	18.1	17.1	17.6	19.2	17.3	18.1
11	---	---	---	10.7	9.1	9.9	19.6	16.9	17.9	20.2	18.1	18.9
12	8.2	6.7	7.4	10.6	9.3	9.9	18.2	16.8	17.7	23.9	19.6	21.0
13	8.9	7.6	8.3	12.1	10.0	10.8	17.1	15.9	16.6	21.5	20.2	20.8
14	9.5	8.6	9.0	11.6	10.6	11.0	15.9	14.6	15.1	21.2	20.1	20.5
15	10.1	9.1	9.5	11.7	10.1	10.8	14.7	13.2	13.9	22.1	20.3	21.0
16	---	---	---	11.1	9.8	10.5	13.6	12.4	13.2	23.2	21.4	22.1
17	11.8	8.7	10.9	9.8	8.5	9.1	14.8	12.6	13.4	23.1	22.0	22.4
18	10.2	9.0	9.6	9.3	8.2	8.7	16.4	13.2	14.3	23.8	21.8	22.7
19	10.9	8.2	9.4	9.6	8.6	9.0	17.1	14.4	15.5	23.1	22.5	22.8
20	10.5	9.3	9.9	11.6	9.6	10.3	18.2	15.9	16.7	22.8	21.8	22.3
21	11.3	10.0	10.8	12.3	10.7	11.3	21.8	17.0	18.3	22.3	21.2	21.7
22	12.0	11.0	11.3	12.6	11.2	11.9	20.4	18.2	19.4	22.5	21.0	21.7
23	11.9	11.0	11.4	14.5	12.6	13.3	20.3	19.0	19.7	23.1	21.8	22.4
24	11.3	10.1	10.7	14.9	13.3	14.0	19.7	17.4	18.4	23.9	21.9	22.7
25	10.1	8.8	9.4	14.8	13.5	14.1	17.9	16.5	17.2	22.5	21.1	21.7
26	10.3	8.1	9.1	15.3	13.6	14.5	17.6	16.9	17.3	22.3	20.6	21.4
27	10.2	8.9	9.4	14.8	14.2	14.5	18.7	17.4	17.9	23.3	21.4	21.9
28	9.4	8.8	9.1	15.7	14.4	15.0	19.6	17.4	18.3	24.1	22.2	23.0
29	---	---	---	16.3	14.8	15.5	18.7	17.4	18.0	24.7	22.9	23.8
30	---	---	---	17.0	15.5	16.2	19.8	18.1	18.9	24.1	23.1	23.6
31	---	---	---	17.8	16.0	17.0	---	---	---	23.7	22.7	23.1
MONTH	---	---	---	17.8	6.8	11.1	21.8	12.4	17.1	24.7	15.0	20.8

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	22.1	22.6	28.8	27.7	28.0	29.3	28.2	28.8	31.7	28.6	29.4
2	22.1	21.5	21.8	30.1	28.2	28.9	30.3	27.9	29.0	31.0	29.1	29.5
3	23.2	21.8	22.2	30.1	28.1	29.0	31.1	27.9	29.1	30.3	28.6	29.3
4	24.4	22.2	23.0	29.7	28.2	28.8	29.5	27.8	28.5	29.4	27.8	28.5
5	26.4	22.5	24.0	30.3	28.7	29.4	29.4	28.0	28.8	28.0	27.0	27.5
6	25.5	24.2	24.8	30.8	29.1	29.7	30.3	28.4	29.3	27.1	26.4	26.8
7	26.8	24.7	25.4	30.6	28.9	29.9	30.0	29.0	29.6	26.5	25.9	26.2
8	27.6	25.8	26.5	30.8	29.2	30.1	29.3	28.5	28.9	26.7	25.7	26.2
9	27.3	26.5	26.8	30.4	29.2	29.7	29.3	28.1	28.6	27.0	25.5	26.2
10	27.6	26.1	26.8	30.5	29.2	29.9	29.9	28.1	28.7	26.5	25.1	25.7
11	27.8	26.6	27.1	31.3	29.6	30.1	29.6	28.7	29.1	---	---	---
12	28.2	26.7	27.4	31.1	29.7	30.2	30.7	29.3	29.7	---	---	---
13	28.7	27.2	27.8	30.1	28.9	29.4	31.1	29.8	30.2	---	---	---
14	29.4	27.6	28.3	29.4	28.5	28.9	30.7	29.9	30.3	---	---	---
15	30.1	28.2	28.9	29.0	28.1	28.5	33.5	30.0	31.2	---	---	---
16	31.3	29.0	29.8	29.2	27.6	28.2	32.1	30.2	30.8	---	---	---
17	29.6	24.8	27.8	29.6	27.5	28.2	31.1	29.4	30.0	---	---	---
18	28.4	27.1	27.7	28.9	27.7	28.3	30.5	28.7	29.5	---	---	---
19	27.5	26.2	26.7	30.0	28.1	28.8	32.4	29.4	30.1	---	---	---
20	26.2	25.2	25.6	31.2	29.0	29.8	33.4	29.8	31.0	28.7	27.0	27.5
21	27.7	24.6	25.7	30.7	29.2	29.8	32.1	30.6	31.2	27.8	26.7	27.4
22	27.4	24.6	25.9	30.6	29.5	29.9	32.4	30.5	31.4	28.1	26.4	27.0
23	28.0	25.9	26.7	32.4	29.2	30.5	31.5	30.0	30.6	30.8	27.0	28.2
24	28.1	26.3	27.1	31.3	28.8	30.2	30.3	29.0	29.5	29.6	27.0	28.0
25	27.4	26.4	26.8	30.4	28.9	29.6	29.1	27.5	28.5	27.7	26.3	27.2
26	27.7	26.3	26.9	32.3	28.9	30.2	29.4	27.3	28.3	27.4	26.2	26.8
27	28.4	26.8	27.4	31.3	29.1	30.0	28.7	27.6	28.1	27.6	26.2	26.9
28	28.4	27.8	28.1	34.1	30.7	32.0	29.2	27.3	28.1	27.0	26.0	26.5
29	28.1	27.1	27.6	32.0	30.0	30.8	28.9	27.8	28.4	27.6	25.8	26.6
30	28.6	26.8	27.3	31.0	29.8	30.3	29.6	28.6	29.2	27.1	25.4	26.0
31	---	---	---	30.1	29.0	29.6	30.5	29.2	29.7	---	---	---
MONTH	31.3	21.5	26.4	34.1	27.5	29.6	33.5	27.3	29.5	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.3	23.6	23.9	---	---	---	14.1	12.8	13.5	7.0	6.6	6.8
2	25.3	23.8	24.1	19.7	19.4	19.5	13.6	11.7	12.7	7.1	6.8	7.0
3	25.3	24.2	24.7	19.8	19.5	19.7	13.3	12.1	12.7	7.4	7.0	7.2
4	25.4	24.4	24.8	20.1	19.8	20.0	---	---	---	7.5	7.0	7.3
5	25.1	24.5	24.7	20.1	19.3	19.6	13.7	12.8	13.5	7.6	7.1	7.4
6	24.5	23.0	23.6	19.5	19.0	19.4	13.6	13.3	13.5	9.2	7.5	8.2
7	23.3	22.1	22.7	---	---	---	13.6	11.4	12.7	9.3	7.9	8.5
8	23.3	21.8	22.5	19.4	17.5	18.5	13.1	11.8	12.4	10.9	8.1	9.3
9	23.2	22.0	22.5	17.9	15.7	16.6	13.3	12.9	13.1	9.6	8.8	9.0
10	22.8	21.8	22.3	16.8	15.9	16.5	14.2	12.8	13.6	9.7	9.2	9.3
11	22.6	21.4	21.9	16.6	15.8	16.4	14.1	12.9	13.6	9.7	9.2	9.3
12	21.4	20.1	20.7	16.6	16.2	16.4	14.0	12.1	13.2	10.1	9.4	9.7
13	20.9	20.5	20.7	16.5	15.1	15.7	---	---	---	14.3	9.8	11.3
14	20.9	20.5	20.7	15.2	13.6	14.2	14.1	12.5	13.5	15.4	13.9	14.7
15	20.7	19.9	20.4	14.2	13.3	13.8	12.9	9.5	10.8	13.9	11.6	12.9
16	20.0	18.8	19.3	14.1	13.8	14.0	10.8	9.3	10.4	12.0	10.4	11.1
17	19.1	18.3	18.6	14.0	13.2	13.6	11.0	10.1	10.6	10.7	9.0	9.8
18	21.1	18.4	19.8	13.6	13.2	13.4	10.7	9.7	10.3	9.1	6.2	7.1
19	20.5	19.0	19.6	13.9	13.6	13.7	10.3	9.7	9.9	7.4	5.9	7.0
20	20.9	20.3	20.5	14.1	13.8	14.0	10.2	7.0	8.1	7.7	6.0	7.3
21	21.2	20.8	21.1	14.2	13.8	14.0	7.6	6.4	7.1	7.6	7.2	7.4
22	21.2	20.7	21.0	14.3	14.0	14.2	7.4	6.1	7.0	7.6	7.0	7.4
23	20.9	19.3	20.1	14.3	13.9	14.2	8.2	7.0	7.6	7.2	4.0	5.4
24	20.2	19.6	20.1	14.4	13.9	14.3	8.5	7.6	8.0	4.0	2.7	3.6
25	20.2	19.6	20.0	15.8	14.3	15.0	8.3	7.9	8.1	4.1	3.0	3.7
26	19.8	18.6	19.4	14.8	13.5	14.1	8.3	5.9	6.6	4.8	4.0	4.5
27	19.4	18.9	19.2	14.5	14.0	14.4	6.0	5.1	5.5	4.5	3.8	4.0
28	19.4	18.8	19.2	14.3	13.6	14.0	6.0	5.0	5.5	4.4	4.1	4.2
29	19.3	19.0	19.2	13.9	13.3	13.7	6.3	5.5	5.8	4.6	4.3	4.5
30	19.3	19.0	19.2	14.1	13.8	13.9	6.5	6.0	6.3	4.8	3.7	4.4
31	19.3	19.1	19.3	---	---	---	6.7	6.3	6.6	4.5	3.8	4.1
MONTH	25.4	18.3	21.2	---	---	---	---	---	---	15.4	2.7	7.5
		FEBRUARY			MARCH			APRIL			MAY	
1	4.7	4.0	4.2	9.6	8.9	9.3	18.6	16.8	17.3	19.7	19.2	19.4
2	4.7	4.2	4.5	9.2	7.4	8.2	18.7	16.9	18.1	20.5	18.9	19.4
3	5.1	4.5	4.8	8.6	7.6	8.3	16.9	15.1	15.9	19.9	18.9	19.2
4	5.2	4.8	5.0	8.6	7.9	8.4	16.6	14.9	15.8	20.9	18.9	19.4
5	6.0	4.9	5.3	8.4	7.7	8.1	17.7	16.2	16.7	20.2	18.6	19.3
6	6.6	5.4	5.6	8.4	8.0	8.2	18.7	16.9	17.4	18.6	15.9	17.3
7	---	---	---	10.4	8.4	9.2	19.3	17.6	18.4	17.1	15.0	15.9
8	---	---	---	10.8	9.5	10.2	20.0	18.5	18.9	17.8	16.1	16.9
9	7.0	5.9	6.1	9.7	8.6	9.1	19.8	17.8	18.8	17.6	16.1	16.7
10	7.4	6.0	6.6	9.8	8.7	9.2	18.1	16.8	17.6	19.0	16.3	17.1
11	---	---	---	10.6	9.1	9.7	18.7	16.9	17.5	19.6	18.1	18.7
12	7.6	6.8	7.1	10.6	9.2	9.8	18.2	16.9	17.7	21.4	18.5	19.6
13	7.7	6.7	7.1	11.6	9.8	10.5	17.1	16.0	16.6	21.6	18.3	20.6
14	9.3	6.9	8.1	11.5	10.6	11.0	16.0	14.7	15.1	21.2	20.1	20.5
15	9.3	8.3	8.8	11.4	10.1	10.7	14.8	13.3	13.9	21.8	20.3	20.8
16	---	---	---	11.1	9.8	10.5	13.7	12.4	13.3	22.6	21.4	21.7
17	8.8	7.4	7.9	9.8	8.4	9.1	14.4	12.5	13.3	23.0	21.9	22.4
18	8.9	8.0	8.3	9.2	8.1	8.6	15.3	13.3	14.0	23.3	21.9	22.3
19	8.6	8.1	8.3	9.5	8.6	9.0	16.5	14.5	15.1	23.1	22.5	22.8
20	9.2	8.4	8.6	10.5	9.5	9.9	18.1	15.7	16.4	22.6	21.8	22.3
21	10.3	8.7	9.4	12.0	10.5	11.1	18.9	17.1	17.6	22.3	21.3	21.7
22	10.1	8.9	9.3	12.5	11.2	11.8	20.4	18.2	19.3	22.4	21.0	21.7
23	9.9	9.0	9.4	14.4	12.5	13.2	20.3	19.1	19.7	22.8	21.6	22.1
24	10.6	9.3	9.8	14.5	13.3	13.7	19.7	17.5	18.4	23.4	21.9	22.4
25	10.2	9.3	9.6	14.7	13.4	14.0	17.9	16.5	17.2	22.6	21.2	21.7
26	9.6	9.5	9.5	15.1	13.6	14.4	17.6	16.9	17.3	22.3	20.7	21.3
27	9.6	9.1	9.4	14.8	14.2	14.5	18.7	17.4	17.9	21.9	21.4	21.6
28	9.4	8.7	9.1	15.6	14.4	14.9	18.3	16.2	17.0	23.6	21.8	22.4
29	---	---	---	16.1	14.8	15.4	18.4	16.3	16.9	24.1	23.0	23.4
30	---	---	---	17.0	15.4	15.9	19.8	18.0	18.9	23.9	22.3	23.3
31	---	---	---	17.7	15.9	16.8	---	---	---	23.4	21.8	22.3
MONTH	---	---	---	17.7	7.4	11.1	20.4	12.4	16.9	24.1	15.0	20.5

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.1	22.0	22.5	27.9	26.9	27.2	29.8	28.8	29.4	29.7	28.9	29.1
2	22.3	21.6	21.9	28.0	27.1	27.5	29.4	29.3	29.4	29.0	28.9	28.9
3	22.5	21.8	21.9	29.8	27.1	28.0	29.3	29.1	29.2	29.2	28.9	29.0
4	22.5	21.8	21.9	29.0	27.5	28.1	29.2	28.8	29.1	29.1	28.6	28.9
5	23.3	21.7	21.9	29.7	28.0	28.8	29.1	28.3	28.8	28.8	27.5	27.9
6	25.2	21.7	22.9	29.7	28.1	29.1	29.3	28.2	28.6	27.7	26.4	26.9
7	25.7	23.4	24.4	30.2	27.8	28.4	29.9	28.8	29.3	26.6	25.9	26.2
8	26.6	23.6	24.8	30.2	29.2	29.7	29.3	28.5	28.8	26.1	25.7	25.9
9	26.9	26.3	26.5	29.6	29.0	29.3	28.5	27.9	28.2	26.6	25.6	26.1
10	27.6	26.0	26.6	29.7	28.9	29.1	29.0	28.1	28.5	26.5	25.3	25.8
11	27.4	26.6	26.9	29.2	28.6	28.8	28.7	28.4	28.5	---	---	---
12	28.1	26.7	27.3	29.2	28.4	28.7	29.5	28.4	28.6	---	---	---
13	28.4	27.1	27.5	29.3	28.3	28.7	30.4	28.5	29.3	---	---	---
14	28.2	27.6	27.8	29.0	28.6	28.8	30.5	28.8	29.9	---	---	---
15	29.3	27.7	28.1	28.8	27.9	28.3	30.5	28.7	29.4	---	---	---
16	28.9	26.0	27.6	28.4	26.8	27.3	29.4	28.7	28.8	---	---	---
17	26.0	23.9	24.4	28.0	26.8	27.2	29.2	28.8	29.0	---	---	---
18	24.5	23.8	24.1	28.4	27.5	27.9	28.9	28.6	28.8	---	---	---
19	24.8	23.5	24.0	28.6	27.8	28.0	29.1	28.6	28.7	---	---	---
20	24.6	23.5	23.8	28.4	27.7	28.0	29.2	28.6	28.7	27.1	25.8	26.3
21	24.7	23.8	24.1	29.7	27.9	28.2	29.7	28.6	28.8	27.2	25.8	26.2
22	24.9	24.3	24.6	30.0	28.1	28.5	29.0	28.6	28.8	26.4	25.8	26.0
23	24.9	23.9	24.3	29.6	28.7	29.1	29.4	28.6	28.8	26.7	26.1	26.3
24	25.7	24.2	24.7	29.0	28.6	28.7	29.4	28.9	29.0	26.7	26.1	26.3
25	25.5	24.8	25.1	29.5	28.7	28.9	29.0	28.9	29.0	26.8	26.3	26.6
26	26.9	25.2	25.8	29.4	28.5	28.8	29.0	28.8	28.9	27.2	26.7	26.9
27	27.4	25.5	26.1	28.8	28.4	28.6	28.9	28.2	28.6	27.4	26.5	27.0
28	28.3	26.8	27.5	28.9	28.5	28.6	28.5	27.9	28.2	27.2	26.1	26.6
29	27.8	27.0	27.4	30.8	28.5	29.8	28.3	28.1	28.2	26.8	26.2	26.4
30	27.2	26.7	27.0	30.8	29.8	30.1	29.3	28.1	28.4	26.8	25.6	26.0
31	---	---	---	30.2	29.6	29.9	30.2	28.8	29.3	---	---	---
MONTH	29.3	21.6	25.1	30.8	26.8	28.6	30.5	27.9	28.9	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.1	5.9	6.4	---	---	---	8.7	7.7	8.1	10.9	10.5	10.7
2	6.9	5.4	6.2	7.8	4.6	6.5	8.8	8.0	8.3	11.0	9.7	10.6
3	8.1	6.0	6.8	8.0	3.5	6.6	8.8	7.8	8.3	10.7	10.1	10.5
4	7.9	5.9	7.0	8.0	3.3	6.7	---	---	---	10.7	10.2	10.4
5	8.0	5.6	6.5	7.7	5.9	6.8	8.8	8.2	8.5	10.5	9.9	10.2
6	7.6	6.6	7.1	---	---	---	8.9	8.3	8.7	10.1	9.4	9.8
7	7.9	6.2	7.0	---	---	---	9.2	8.4	8.8	10.2	6.6	9.4
8	8.6	6.5	7.4	---	---	---	9.4	8.8	9.0	9.5	8.7	9.0
9	7.8	6.5	7.0	---	---	---	9.2	8.4	8.7	9.0	7.9	8.8
10	7.5	6.0	6.8	---	---	---	9.0	8.4	8.8	8.8	7.6	8.1
11	7.5	6.6	7.0	8.7	6.3	7.7	9.3	8.5	8.9	9.6	6.4	8.4
12	8.1	6.9	7.3	8.9	6.6	7.7	9.4	8.5	9.1	9.0	7.9	8.6
13	7.6	6.8	7.2	8.4	6.9	7.6	---	---	---	9.1	8.6	8.9
14	7.6	7.0	7.3	8.9	8.0	8.5	9.4	7.7	8.8	9.0	8.6	8.8
15	7.7	6.9	7.3	8.6	8.0	8.2	9.5	8.5	9.1	9.8	8.9	9.3
16	8.2	7.2	7.8	8.3	7.3	7.9	10.9	9.0	9.5	10.1	9.5	9.8
17	8.5	7.4	8.0	8.1	7.5	7.7	11.3	9.2	9.5	10.3	9.2	9.8
18	8.0	6.8	7.5	7.9	6.9	7.3	10.1	8.1	9.3	11.0	10.2	10.7
19	7.4	6.8	7.2	8.4	6.9	7.6	11.6	8.3	9.6	11.0	10.1	10.4
20	7.5	7.2	7.4	8.5	6.9	7.7	10.2	8.3	9.3	10.5	10.1	10.3
21	7.7	6.9	7.4	8.8	7.0	8.4	11.1	9.6	10.5	11.0	9.3	10.5
22	7.6	3.2	5.2	8.6	6.4	7.9	11.1	10.4	10.6	11.2	9.6	10.7
23	7.0	3.5	5.1	8.6	7.9	8.3	10.6	10.2	10.4	12.1	10.0	11.0
24	6.6	3.2	4.9	8.4	6.6	7.8	10.6	10.2	10.4	12.6	12.0	12.3
25	5.9	2.3	4.1	8.7	7.4	8.1	10.9	10.4	10.6	12.4	12.1	12.2
26	6.4	3.0	5.1	9.2	8.0	8.6	10.9	10.4	10.6	12.3	12.1	12.2
27	5.8	3.0	4.7	9.1	6.8	8.4	10.9	10.4	10.7	12.5	12.0	12.2
28	5.4	1.8	3.3	8.6	6.4	8.0	10.9	10.3	10.6	12.7	11.9	12.3
29	---	---	---	8.8	8.0	8.4	10.7	10.2	10.4	12.7	12.1	12.4
30	---	---	---	8.3	7.0	7.7	10.7	10.4	10.5	12.5	11.9	12.2
31	---	---	---	---	---	---	10.8	10.4	10.6	12.7	12.2	12.5
MONTH	---	---	---	---	---	---	---	---	---	12.7	6.4	10.4
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	12.2	12.4	11.1	9.7	10.5	8.5	7.6	8.0	8.5	7.8	8.1
2	12.7	12.2	12.3	11.8	10.5	11.2	8.4	7.4	8.0	8.6	7.8	8.2
3	12.3	11.8	12.0	11.9	10.8	11.4	8.9	7.5	8.3	9.2	7.7	8.3
4	12.2	11.8	12.0	11.5	10.9	11.2	8.7	7.8	8.3	9.7	8.3	9.0
5	12.4	12.0	12.2	11.8	10.7	11.1	8.3	7.3	7.6	9.6	8.4	9.0
6	12.3	11.8	12.0	11.9	10.8	11.3	7.8	7.1	7.4	9.2	8.3	8.8
7	---	---	---	11.5	10.3	11.0	7.9	6.8	7.4	8.8	7.7	8.4
8	---	---	---	11.4	10.3	10.9	7.8	7.0	7.4	8.5	7.2	7.8
9	11.9	11.1	11.6	11.0	10.2	10.7	7.8	7.1	7.4	7.9	7.2	7.5
10	11.6	11.1	11.3	---	---	---	7.8	6.8	7.3	7.5	6.3	7.0
11	---	---	---	---	---	---	7.3	6.2	6.7	7.0	5.9	6.5
12	12.0	11.5	11.7	---	---	---	7.5	6.5	7.0	6.9	5.6	6.3
13	12.1	11.5	11.8	---	---	---	7.8	7.0	7.3	7.1	6.2	6.7
14	12.1	11.6	11.8	---	---	---	8.4	7.8	8.0	6.4	5.3	5.7
15	12.3	11.3	11.8	---	---	---	9.1	7.5	8.5	6.2	5.5	5.8
16	---	---	---	---	---	---	9.1	7.9	8.2	6.7	5.7	6.1
17	12.2	10.0	11.6	---	---	---	7.9	7.3	7.5	7.3	6.2	6.6
18	11.5	9.8	11.2	10.4	10.0	10.2	8.1	7.3	7.8	7.6	6.0	6.7
19	12.3	11.2	11.7	10.3	9.8	10.1	8.1	7.6	7.8	7.0	6.3	6.6
20	13.1	11.3	12.1	10.4	10.0	10.2	7.9	7.5	7.7	7.1	5.7	6.4
21	12.0	10.8	11.4	10.4	9.9	10.1	7.6	7.2	7.4	7.3	6.3	6.9
22	12.0	10.9	11.3	10.4	9.7	10.1	7.6	6.7	7.2	7.5	6.6	7.0
23	11.9	10.8	11.4	10.1	9.2	9.6	7.7	7.0	7.3	7.3	6.5	6.9
24	11.7	10.1	11.0	9.3	8.7	9.0	7.8	7.3	7.5	7.9	6.6	7.1
25	11.1	10.1	10.6	9.0	8.5	8.8	7.8	7.4	7.6	7.1	6.7	6.9
26	11.2	10.4	10.8	8.8	8.3	8.6	7.8	7.3	7.5	7.4	6.3	6.9
27	11.6	9.8	10.8	8.5	7.8	8.2	7.9	7.1	7.5	7.5	6.3	6.9
28	11.6	10.2	11.0	8.4	7.7	8.0	8.2	7.5	7.9	7.7	6.8	7.2
29	---	---	---	8.6	7.9	8.3	8.2	7.6	7.8	8.6	7.1	7.7
30	---	---	---	8.4	7.7	8.0	8.3	7.3	7.9	8.1	7.2	7.7
31	---	---	---	8.6	7.6	8.1	---	---	---	8.3	6.8	7.4
MONTH	---	---	---	---	---	---	9.1	6.2	7.6	9.7	5.3	7.2

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.3	7.0	7.5	9.4	5.2	6.3	6.0	4.5	5.1	14.2	4.7	9.2
2	7.9	6.8	7.4	9.3	5.8	7.2	6.9	4.5	5.3	12.1	0.6	5.7
3	6.9	6.0	6.5	11.1	6.0	8.2	5.9	2.7	4.4	10.8	0.1	5.2
4	6.7	5.1	6.2	10.3	6.4	8.3	5.8	3.3	4.5	9.4	0.1	7.5
5	7.2	4.8	6.0	10.3	6.4	8.2	6.2	4.0	5.2	8.2	4.5	6.8
6	6.6	5.3	6.0	10.2	7.4	8.3	8.8	5.1	6.7	8.0	6.2	7.3
7	7.3	5.7	6.3	9.5	3.7	7.9	8.3	5.9	7.2	8.5	6.4	7.5
8	10.2	6.5	7.7	9.6	6.3	7.9	8.2	6.5	7.2	9.1	5.8	7.4
9	9.2	7.9	8.4	8.9	4.9	7.2	7.8	6.1	6.9	9.3	6.4	7.5
10	9.9	7.3	8.4	9.2	4.0	7.8	8.5	4.2	6.4	8.4	5.1	6.9
11	10.3	7.9	8.9	9.9	4.4	7.6	6.5	4.9	6.0	---	---	---
12	11.0	7.6	8.8	9.1	6.1	7.5	7.2	3.5	6.4	---	---	---
13	8.6	6.0	7.3	7.3	2.3	5.6	7.9	5.7	6.6	---	---	---
14	9.8	6.3	7.7	5.5	3.8	4.7	7.8	5.8	6.8	---	---	---
15	10.1	6.9	8.1	5.6	4.2	4.9	10.7	5.9	7.7	---	---	---
16	10.6	7.6	8.7	6.2	4.8	5.3	8.4	4.6	6.5	---	---	---
17	8.6	0.5	6.2	6.7	4.1	5.0	7.8	1.3	5.6	---	---	---
18	11.2	4.2	7.9	5.8	4.5	5.0	6.7	0.0	3.2	---	---	---
19	11.3	8.6	10.0	6.3	4.2	5.1	8.4	0.3	6.1	---	---	---
20	9.6	8.4	8.9	8.1	4.8	6.1	11.3	1.2	7.9	7.2	3.3	4.7
21	9.0	5.3	7.8	7.6	3.0	6.0	9.1	4.7	7.3	8.0	4.3	6.1
22	11.9	7.0	9.1	7.5	5.1	6.0	11.2	4.7	8.7	10.4	4.9	7.1
23	11.7	4.0	9.5	8.8	2.0	6.1	7.5	0.3	5.0	11.9	5.1	8.3
24	9.5	6.8	8.8	8.3	1.2	5.5	7.7	0.1	5.2	10.2	4.6	7.0
25	8.6	7.3	7.9	8.1	2.4	6.1	8.1	0.1	5.5	8.1	6.0	7.1
26	9.1	6.7	7.6	7.5	3.9	5.6	8.9	4.3	6.4	9.1	6.3	7.5
27	9.2	4.2	6.5	5.8	3.4	4.3	9.7	7.1	8.2	11.3	5.8	7.8
28	8.8	6.3	7.7	10.4	3.2	7.1	10.2	4.5	7.9	10.6	7.2	8.6
29	8.1	5.5	6.8	8.5	2.9	6.4	9.1	3.8	7.3	10.8	4.8	8.4
30	10.9	5.6	6.9	6.8	5.3	5.9	9.6	5.2	7.7	9.6	5.0	6.3
31	---	---	---	6.3	4.8	5.3	10.1	5.6	8.2	---	---	---
MONTH	11.9	0.5	7.7	11.1	1.2	6.4	11.3	0.0	6.4	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	5.6	6.1	---	---	---	8.2	4.5	6.9	10.0	9.2	9.6
2	6.5	5.1	5.9	1.8	0.3	0.8	8.2	6.6	7.6	9.4	8.8	9.1
3	6.4	4.6	5.7	2.2	0.0	0.6	7.8	6.0	7.0	9.0	8.0	8.6
4	7.5	4.6	6.2	6.3	0.7	3.0	---	---	---	9.7	7.6	8.3
5	7.0	5.4	6.1	6.8	2.5	5.6	5.4	4.0	4.7	8.2	7.8	8.0
6	7.7	6.6	7.2	6.3	4.7	5.4	4.5	4.1	4.4	8.2	7.0	7.7
7	7.9	6.0	6.9	---	---	---	8.6	3.3	5.2	7.8	6.4	7.3
8	8.2	6.0	7.0	8.5	3.9	6.2	8.7	5.0	7.6	8.9	6.6	7.3
9	7.7	6.0	6.7	9.0	7.3	8.1	6.4	3.2	4.0	7.4	6.9	7.2
10	6.9	5.8	6.4	8.2	5.9	6.8	8.4	3.4	7.7	7.6	6.4	6.8
11	7.4	6.6	7.0	7.0	4.9	5.7	8.6	8.2	8.4	6.7	5.6	6.2
12	7.2	6.4	6.9	6.9	4.7	5.5	8.6	3.5	6.1	6.0	4.8	5.4
13	7.6	6.4	7.0	9.0	4.7	7.7	---	---	---	8.6	4.9	6.1
14	7.6	7.0	7.3	10.0	8.0	9.1	6.0	3.9	4.5	8.9	8.4	8.8
15	7.8	7.0	7.4	9.2	7.5	8.2	9.2	5.9	7.7	9.6	8.8	9.1
16	8.3	7.3	7.9	8.2	7.4	7.7	9.7	8.3	9.0	9.8	9.0	9.4
17	8.4	7.6	8.0	7.7	7.1	7.5	9.9	7.6	8.8	9.8	8.9	9.3
18	8.1	0.6	3.5	7.6	5.9	7.0	9.9	8.8	9.5	10.7	9.3	10.2
19	7.4	5.8	7.0	6.2	5.0	5.6	9.7	7.9	9.2	10.4	9.4	9.9
20	7.7	0.8	6.4	5.1	4.3	4.8	11.5	7.8	10.5	10.0	8.2	9.2
21	1.8	0.4	0.8	4.9	3.9	4.3	11.9	10.6	11.1	8.9	8.5	8.7
22	1.5	0.3	0.7	4.2	3.4	3.7	11.7	10.2	10.7	8.7	7.9	8.4
23	6.8	0.8	3.6	4.7	3.0	3.5	11.9	9.5	10.8	11.3	8.2	10.1
24	4.9	0.5	3.0	7.2	2.7	3.9	11.9	10.6	11.4	11.7	10.8	11.2
25	8.9	0.3	4.3	8.1	4.6	7.1	11.3	10.2	10.8	11.7	10.5	11.0
26	7.7	2.0	4.6	8.3	5.1	6.7	12.3	10.8	11.9	10.7	8.0	9.7
27	5.8	3.2	4.5	6.1	4.8	5.4	12.6	11.9	12.3	10.9	10.0	10.7
28	5.7	3.2	3.7	7.4	5.0	6.1	12.5	11.6	12.1	10.7	10.2	10.5
29	4.8	1.6	3.1	7.8	5.0	5.9	12.3	10.4	11.7	10.4	9.9	10.2
30	3.4	0.9	1.7	5.8	4.6	5.0	11.2	10.0	10.7	11.8	9.2	10.4
31	2.9	0.6	1.3	---	---	---	10.5	9.6	10	11.8	9.8	11.0
MONTH	8.9	0.3	5.3	---	---	---	---	---	---	11.8	4.8	8.9
		FEBRUARY			MARCH			APRIL			MAY	
1	11.2	9.5	10.8	10.6	9.6	10.1	8.0	7.2	7.6	8.4	8.0	8.2
2	10.7	9.4	10.2	11.3	9.9	10.7	8.2	7.3	7.8	8.5	7.1	7.9
3	11.2	9.3	10.1	11.4	10.2	10.8	8.9	7.3	8.3	8.3	6.5	7.6
4	11.3	10.2	11.1	11.3	8.3	10.0	8.8	7.9	8.4	9.6	5.6	7.1
5	11.5	10.3	11.2	11.0	8.6	10.1	8.4	7.0	7.6	9.7	6.1	8.7
6	11.2	9.5	10.5	9.9	8.6	9.3	7.9	7.1	7.4	9.0	8.3	8.8
7	---	---	---	11.0	6.1	9.6	8.2	7.0	7.5	8.7	7.7	8.2
8	---	---	---	11.0	10.0	10.6	8.0	7.2	7.5	8.1	6.8	7.4
9	10.2	8.0	9.4	10.8	10.2	10.5	8.0	7.2	7.5	7.2	5.7	6.5
10	10.2	8.2	9.5	11.1	9.2	10.6	8.0	7.0	7.4	6.6	4.8	5.9
11	---	---	---	11.6	11.0	11.3	7.2	6.2	6.7	6.8	5.7	6.3
12	11.0	9.6	10.3	11.6	10.8	11.3	7.7	6.7	7.1	6.3	3.8	5.7
13	10.5	8.7	9.7	11.9	10.3	11.2	8.0	7.0	7.4	6.9	3.3	6.2
14	10.9	7.9	9.9	11.4	10.9	11.1	8.4	7.8	8.0	6.2	5.1	5.6
15	10.8	9.1	9.8	11.3	10.2	10.7	9.1	7.4	8.4	5.9	5.2	5.5
16	---	---	---	11.0	7.4	9.8	9.0	7.7	8.2	6.4	5.3	5.7
17	9.5	8.3	8.9	10.8	10.1	10.6	7.7	7.2	7.3	6.9	6.0	6.4
18	9.3	6.7	8.3	10.8	10.2	10.4	8.0	7.2	7.6	6.5	5.2	5.9
19	7.7	5.8	6.7	10.5	10.1	10.3	8.0	7.6	7.8	6.2	5.5	5.9
20	9.3	5.4	6.8	10.5	10.2	10.3	7.8	7.5	7.6	6.4	5.1	5.8
21	9.2	6.2	7.7	10.5	10.0	10.3	7.6	7.2	7.4	6.8	5.8	6.4
22	7.4	5.1	6.1	10.5	9.9	10.2	7.6	6.7	7.2	6.9	6.1	6.4
23	7.4	4.7	6.0	10.3	9.2	9.7	7.7	7.0	7.4	6.6	5.8	6.3
24	9.9	4.7	6.8	9.3	8.7	8.9	7.8	7.1	7.5	7.1	6.2	6.5
25	9.7	5.7	8.3	9.1	8.4	8.8	7.7	7.2	7.5	6.9	6.5	6.7
26	8.3	6.0	6.8	8.8	8.2	8.5	7.8	7.1	7.5	7.6	6.3	6.9
27	10.0	6.1	7.6	8.4	7.5	8.0	7.9	7.1	7.5	7.5	6.5	6.9
28	11.0	6.4	10.1	8.2	7.4	7.8	7.7	4.3	5.5	7.5	6.5	6.9
29	---	---	---	8.4	7.7	8.1	7.6	4.0	4.6	7.8	6.7	7.2
30	---	---	---	8.2	7.4	7.8	8.4	6.1	8.1	7.7	3.6	6.4
31	---	---	---	8.4	7.2	7.8	---	---	---	7.9	2.3	4.0
MONTH	---	---	---	11.9	6.1	9.8	9.1	4.0	7.4	9.7	2.3	6.6

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	2.3	6.2	5.0	3.3	4.4	5.0	0.0	1.9	5.8	0.1	2.2
2	7.5	6.4	7.1	5.4	1.9	3.4	0.1	0.0	0.0	0.4	0.1	0.1
3	7.2	5.0	6.3	9.5	1.2	4.1	0.1	0.0	0.0	0.1	0.1	0.1
4	6.4	3.2	4.8	8.3	1.0	3.9	0.3	0.0	0.1	2.9	0.1	0.6
5	4.5	2.7	3.4	8.0	2.6	5.7	5.4	0.1	1.2	6.9	0.1	3.5
6	5.3	1.5	3.2	8.0	1.0	6.3	5.6	0.3	3.2	7.2	5.1	6.2
7	5.7	2.4	4.4	7.6	0.1	1.7	8.0	3.5	6.3	7.5	4.3	6.5
8	6.8	2.7	4.3	8.2	4.4	6.3	8.0	4.3	6.9	7.2	2.6	5.2
9	7.9	6.1	7.0	5.7	1.6	3.6	6.9	2.8	4.9	7.1	2.6	5.0
10	9.3	5.6	7.3	4.5	0.7	1.8	6.7	0.3	2.3	7.1	3.6	6.0
11	9.6	7.3	8.1	1.1	0.1	0.2	0.7	0.1	0.3	---	---	---
12	10.7	7.4	8.5	0.8	0.1	0.1	4.1	0.0	0.7	---	---	---
13	8.1	5.6	6.5	4.8	0.1	1.5	6.5	0.0	2.7	---	---	---
14	7.9	5.3	6.7	4.4	1.3	2.4	6.6	0.1	4.6	---	---	---
15	8.4	5.5	6.3	4.8	1.4	3.8	6.5	0.0	2.0	---	---	---
16	7.0	0.1	3.2	5.1	3.5	4.3	0.4	0.0	0.1	---	---	---
17	0.1	0.0	0.1	4.8	3.4	4.0	0.1	0.0	0.1	---	---	---
18	0.1	0.0	0.1	5.4	3.3	4.4	0.1	0.0	0.1	---	---	---
19	0.1	0.0	0.1	4.8	0.1	2.4	0.1	0.1	0.1	---	---	---
20	0.1	0.0	0.1	1.5	0.0	0.2	0.1	0.1	0.1	2.7	0.1	0.9
21	3.0	0.0	0.2	4.0	0.0	0.4	0.1	0.1	0.1	2.8	0.0	1.0
22	4.3	0.1	1.9	4.1	0.0	0.5	0.2	0.1	0.1	0.5	0.0	0.1
23	2.0	0.0	0.3	4.6	0.2	1.7	0.2	0.0	0.1	1.6	0.0	0.3
24	2.3	0.0	0.3	0.2	0.0	0.1	0.1	0.0	0.0	0.2	0.0	0.1
25	0.7	0.0	0.1	2.6	0.0	0.3	0.1	0.0	0.1	0.3	0.0	0.1
26	5.3	0.0	1.8	1.9	0.0	0.1	0.1	0.1	0.1	6.5	0.0	2.1
27	4.4	0.2	1.7	0.8	0.0	0.0	2.5	0.0	0.4	9.3	4.2	6.0
28	9.1	0.7	4.4	0.1	0.0	0.0	7.0	0.2	2.5	9.6	3.6	6.2
29	8.0	4.6	6.3	6.9	0.0	2.1	3.5	0.0	0.7	8.0	1.7	3.9
30	8.2	3.5	5.8	6.2	1.3	4.2	5.9	0.0	1.6	6.4	3.3	5.4
31	---	---	---	5.5	0.8	3.7	7.0	1.0	4.9	---	---	---
MONTH	10.7	0.0	3.9	9.5	0.0	2.5	8.0	0.0	1.6	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	85	70	76	---	---	---	82	73	77	88	84	86
2	85	64	74	87	51	73	81	74	78	90	79	87
3	101	72	84	90	39	73	81	72	77	89	84	87
4	97	71	85	88	36	74	---	---	---	92	85	89
5	98	67	78	84	64	74	80	74	77	94	88	90
6	90	77	84	---	---	---	80	74	78	92	85	88
7	93	71	82	---	---	---	86	75	80	96	56	87
8	101	74	85	---	---	---	90	82	86	89	82	84
9	92	75	81	---	---	---	88	78	82	85	73	83
10	88	69	78	---	---	---	88	79	85	82	70	76
11	86	76	81	86	63	76	89	82	86	90	56	78
12	93	77	82	92	67	78	88	80	85	85	73	81
13	85	76	81	82	70	77	---	---	---	88	82	86
14	85	78	82	85	77	82	85	72	80	89	85	87
15	86	76	81	81	75	78	84	75	80	91	86	88
16	90	79	85	78	68	73	97	79	82	91	85	89
17	92	80	86	76	69	72	100	78	82	89	82	86
18	86	73	81	74	66	69	89	72	82	90	86	87
19	81	74	78	79	66	71	102	74	84	87	80	83
20	84	80	82	79	65	72	83	71	78	84	80	82
21	85	75	82	83	67	80	87	79	83	87	75	83
22	82	35	57	81	61	75	88	84	86	87	77	84
23	75	38	55	83	76	80	89	84	86	91	80	86
24	69	35	52	82	64	75	89	86	88	93	90	91
25	62	25	44	87	73	81	88	85	86	94	89	91
26	68	32	54	87	77	82	87	84	85	94	90	92
27	62	32	50	86	66	79	86	82	85	96	92	94
28	57	20	36	83	62	78	85	81	82	95	90	93
29	---	---	---	83	76	79	85	80	83	96	89	93
30	---	---	---	78	67	73	85	82	83	95	90	93
31	---	---	---	---	---	---	86	82	84	99	93	96
MONTH	---	---	---	---	---	---	---	---	---	99	56	87
		FEBRUARY			MARCH			APRIL			MAY	
1	98	94	96	97	84	91	92	79	84	93	86	88
2	99	94	96	101	89	95	90	77	85	96	84	90
3	98	92	94	101	91	96	91	77	84	105	84	91
4	96	92	95	101	90	95	87	78	84	109	91	99
5	100	94	97	101	91	95	85	74	79	104	91	97
6	101	94	97	103	92	97	81	73	77	98	86	92
7	---	---	---	102	88	96	86	71	79	91	80	86
8	---	---	---	103	92	98	85	75	80	88	73	81
9	102	93	99	96	88	93	83	77	80	84	76	80
10	100	93	98	---	---	---	82	72	76	80	66	75
11	---	---	---	---	---	---	80	64	71	77	64	71
12	102	94	97	---	---	---	79	68	73	77	62	71
13	104	96	100	---	---	---	80	72	75	80	69	75
14	104	100	102	---	---	---	83	78	80	71	59	64
15	109	98	103	---	---	---	88	73	82	71	61	65
16	---	---	---	---	---	---	87	75	79	79	65	71
17	113	86	105	---	---	---	75	70	72	85	71	76
18	103	85	98	91	85	88	82	70	76	90	69	78
19	111	95	102	90	84	87	83	75	79	82	73	77
20	117	100	108	94	88	91	84	77	80	82	65	73
21	108	96	103	95	91	93	87	76	79	83	72	79
22	111	99	104	98	91	93	84	71	78	87	74	80
23	110	98	105	95	89	92	85	76	80	86	75	80
24	107	90	99	90	84	88	83	78	81	94	76	82
25	96	89	93	89	83	86	82	76	79	81	76	79
26	100	88	94	87	80	84	82	76	79	85	72	78
27	101	86	95	84	77	81	83	74	79	88	72	79
28	100	89	96	84	76	80	90	79	84	92	78	84
29	---	---	---	88	78	83	88	80	83	104	83	92
30	---	---	---	87	77	82	91	77	85	97	85	91
31	---	---	---	91	77	84	---	---	---	98	79	87
MONTH	---	---	---	---	---	---	92	64	79	109	59	81

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	97	81	88	120	66	81	78	58	66	194	62	122
2	91	78	84	124	75	94	92	58	69	163	8	75
3	79	70	75	147	77	108	80	36	58	144	1	68
4	80	59	73	136	82	108	76	43	58	122	1	96
5	90	56	72	137	83	107	81	52	68	105	57	86
6	81	63	73	137	97	110	117	66	89	101	77	91
7	92	69	77	127	48	105	110	77	96	106	79	93
8	128	80	96	129	83	106	107	84	93	114	71	92
9	116	99	106	119	65	95	102	78	90	117	78	93
10	126	90	105	123	53	103	112	54	83	104	63	85
11	131	99	112	134	58	101	85	64	78	---	---	---
12	142	95	112	123	81	99	97	46	85	---	---	---
13	110	76	94	97	30	73	107	75	88	---	---	---
14	129	80	99	72	49	61	104	77	91	---	---	---
15	134	89	106	73	55	63	151	78	104	---	---	---
16	143	99	115	81	61	68	116	62	87	---	---	---
17	112	6	79	88	52	65	105	17	75	---	---	---
18	144	54	101	75	57	65	89	0	42	---	---	---
19	143	107	126	84	54	66	114	4	81	---	---	---
20	118	102	110	110	63	81	159	16	108	93	42	60
21	115	64	96	102	39	80	125	63	100	101	54	77
22	151	85	113	101	67	80	155	64	118	134	61	89
23	150	49	119	121	26	82	102	4	67	160	64	107
24	122	85	111	112	16	73	102	1	69	134	58	90
25	109	91	99	108	32	81	105	1	71	103	75	89
26	115	83	96	103	51	74	117	55	83	114	78	94
27	119	53	83	79	45	57	125	92	106	144	73	98
28	114	81	99	148	43	98	133	58	102	134	90	108
29	104	70	86	117	39	86	118	49	94	137	60	105
30	138	71	87	92	70	79	126	67	100	121	62	78
31	---	---	---	84	63	70	135	73	109	---	---	---
MONTH	151	6	96	148	16	84	159	0	85	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	83	66	73	---	---	---	79	44	66	82	76	79
2	79	61	70	20	3	9	76	63	72	77	73	75
3	78	55	69	24	0	7	73	57	66	74	67	71
4	92	55	75	69	8	33	---	---	---	80	64	69
5	85	65	74	74	28	62	51	39	45	69	65	67
6	91	77	85	69	51	59	43	39	42	70	61	65
7	93	69	81	---	---	---	80	31	49	66	56	63
8	96	69	81	90	42	67	81	48	71	81	58	64
9	90	69	77	91	75	83	61	30	38	64	60	62
10	80	66	74	84	61	70	82	32	74	67	56	59
11	85	75	80	71	50	58	82	79	81	58	49	54
12	82	71	77	71	48	56	82	34	59	53	42	48
13	85	71	78	90	48	78	---	---	---	84	43	56
14	85	78	82	97	79	89	57	38	43	88	82	86
15	87	78	82	89	73	80	81	56	70	89	84	86
16	91	80	86	80	72	75	86	75	81	88	81	86
17	90	82	85	75	69	72	88	69	79	86	79	82
18	87	7	38	73	57	67	88	79	85	87	81	84
19	82	63	76	60	49	54	86	70	81	85	78	81
20	86	9	71	49	42	47	96	70	88	82	68	77
21	20	5	9	48	38	42	97	88	92	74	71	73
22	17	3	8	41	33	36	94	85	88	72	66	70
23	74	9	39	46	29	34	100	80	90	87	68	80
24	54	6	33	70	26	38	100	90	96	87	83	85
25	97	3	47	82	45	70	96	86	91	88	80	83
26	84	22	50	80	50	66	99	92	97	82	62	75
27	63	35	49	59	47	53	100	95	98	83	77	81
28	61	35	40	72	49	59	99	93	96	82	79	81
29	52	17	33	75	49	57	98	84	94	80	77	79
30	37	10	19	56	45	49	90	81	87	91	72	81
31	31	7	15	---	---	---	85	78	81	90	76	84
MONTH	97	3	60	---	---	---	---	---	---	91	42	74
		FEBRUARY			MARCH			APRIL			MAY	
1	86	74	83	92	84	88	86	74	79	92	87	89
2	82	73	79	96	86	91	88	76	83	95	78	86
3	88	73	79	97	87	92	91	75	84	90	70	83
4	89	80	87	96	71	86	89	79	85	108	61	78
5	92	82	89	94	73	86	86	72	78	105	66	94
6	90	76	84	84	73	79	82	74	78	96	86	92
7	---	---	---	99	52	84	89	74	81	88	79	83
8	---	---	---	99	89	94	86	77	81	84	69	77
9	83	65	76	94	88	91	85	78	81	76	58	67
10	84	68	78	98	80	92	84	74	78	71	49	61
11	---	---	---	104	96	100	77	64	70	74	62	68
12	92	79	85	104	95	99	81	70	75	71	41	62
13	87	72	80	110	92	100	81	72	76	78	35	69
14	95	66	84	103	98	101	83	78	80	69	57	62
15	94	78	85	103	92	96	88	72	82	67	58	62
16	---	---	---	98	67	88	86	73	78	74	60	65
17	82	70	76	95	89	92	73	68	70	81	69	74
18	80	57	71	94	87	90	78	69	74	75	60	69
19	66	50	57	92	87	89	80	75	77	73	64	68
20	81	46	59	93	90	92	83	76	78	74	58	67
21	82	54	67	96	92	94	80	75	77	78	67	72
22	65	44	53	98	91	95	84	71	78	80	69	73
23	65	41	52	98	89	93	85	76	81	77	67	72
24	89	41	60	90	83	86	84	75	81	84	71	75
25	87	50	73	90	81	85	81	74	78	80	74	77
26	73	53	60	87	79	83	82	74	78	86	70	79
27	87	54	67	83	74	79	83	74	79	86	74	79
28	95	56	88	82	73	78	82	44	58	88	75	80
29	---	---	---	85	76	81	81	41	48	93	78	85
30	---	---	---	85	74	79	92	65	87	91	42	76
31	---	---	---	88	73	81	---	---	---	93	26	46
MONTH	---	---	---	110	52	89	92	41	77	108	26	74

02092162 NEUSE RIVER AT NEW BERN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	93	26	71	64	42	55	65	0	25	77	1	29
2	86	73	82	69	24	43	1	0	0	5	1	1
3	83	57	72	126	15	53	1	0	0	1	1	1
4	74	37	55	108	13	50	4	0	0	38	1	8
5	52	31	38	106	33	74	70	1	15	88	1	45
6	65	17	38	106	13	82	73	4	42	91	64	78
7	70	28	53	101	1	22	106	46	82	93	53	81
8	85	32	53	109	58	83	104	56	90	89	32	65
9	99	76	88	75	21	47	89	36	63	89	32	62
10	118	69	91	59	9	24	87	4	30	87	44	73
11	122	91	101	14	1	3	9	1	4	---	---	---
12	137	94	107	10	1	1	54	0	9	---	---	---
13	103	71	83	63	1	19	87	0	36	---	---	---
14	102	67	86	57	17	31	88	1	62	---	---	---
15	110	70	81	62	18	49	87	0	27	---	---	---
16	91	1	41	66	44	54	5	0	0	---	---	---
17	1	0	0	62	43	51	1	0	0	---	---	---
18	1	0	0	70	42	57	1	0	0	---	---	---
19	1	0	0	62	1	31	1	1	1	---	---	---
20	1	0	0	19	0	2	1	1	1	34	1	11
21	36	0	2	53	0	5	1	1	1	35	0	12
22	52	1	23	54	0	7	3	1	2	6	0	0
23	24	0	3	61	3	22	3	0	2	20	0	3
24	28	0	4	3	0	0	1	0	0	2	0	0
25	9	0	1	34	0	3	1	0	0	4	0	1
26	67	0	23	25	0	1	1	1	1	82	0	27
27	56	2	22	10	0	0	32	0	5	118	53	76
28	117	9	57	1	0	0	90	3	32	120	45	78
29	101	59	80	93	0	28	45	0	10	99	21	48
30	103	44	73	83	17	56	77	0	21	79	41	67
31	---	---	---	73	11	49	93	13	64	---	---	---
MONTH	137	0	48	126	0	32	106	0	20	---	---	---

02092500 TRENT RIVER NEAR TRENTON, NC

LOCATION.--Lat 35°03'51", long 77°27'41", Jones County, Hydrologic Unit 03020204, on left bank 50 ft downstream of Free Bridge on Secondary Road 1129, 800 ft downstream of Little Chinquapin Branch, 1.5 mi southwest of Phillips Crossroads, and 6 mi west of Trenton.

DRAINAGE AREA.--168 mi^2.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 19.15 ft above NGVD of 1929. Prior to Mar. 21, 1951, nonrecording gage on bridge 50 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 4,000 ft^3/s on basis of one section slope-conveyance measurement of peak flow; maximum gage height, 22.33 ft, from high-water mark in gage house. Minimum discharge for period of record also occurred Oct. 24, 25, 26, 1974. Minimum discharge for current water year also occurred Sept. 9, 10.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 17.3 ft; discharge, 7,600 ft^3/s, from information provided by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	119	29	471	194	162	241	288	32	40	818	128	7.0
2	113	26	410	161	163	271	299	31	43	1,060	150	6.4
3	95	23	335	138	149	268	379	29	52	1,100	154	5.8
4	110	25	263	121	155	236	383	26	58	945	130	5.1
5	90	30	206	108	174	187	390	24	66	740	114	4.9
6	92	36	163	98	176	152	394	64	66	555	89	4.4
7	84	35	138	90	159	129	359	299	63	383	62	3.9
8	68	32	123	82	140	112	295	414	66	246	44	3.9
9	56	29	111	75	130	102	244	551	107	150	34	3.8
10	48	26	111	71	118	92	228	581	238	101	27	4.2
11	42	25	160	66	110	87	226	493	232	74	24	4.1
12	36	28	209	61	100	83	211	382	188	58	26	4.0
13	38	136	225	58	89	79	190	305	140	47	24	5.5
14	64	251	209	71	81	70	210	271	105	45	20	16
15	69	291	172	158	81	63	278	202	80	72	17	139
16	93	299	139	225	75	59	345	146	61	74	15	250
17	135	279	117	267	73	74	403	207	48	55	14	305
18	142	234	103	279	70	125	404	158	39	46	13	340
19	126	177	107	262	66	164	348	120	32	42	13	336
20	108	133	89	214	61	184	260	97	28	36	12	283
21	92	112	77	171	58	206	176	106	24	37	12	178
22	77	92	71	148	58	194	128	121	21	45	11	116
23	65	109	71	133	59	175	100	122	18	76	13	78
24	56	245	86	121	67	174	80	108	15	91	22	58
25	50	330	99	110	106	188	65	102	14	84	24	46
26	45	377	115	102	145	197	55	97	15	61	19	38
27	42	369	181	95	159	186	48	81	16	45	14	35
28	39	400	242	86	184	190	43	68	15	34	11	32
29	36	449	263	77	---	263	38	57	161	33	9.5	28
30	33	482	259	87	---	304	34	49	433	28	8.2	24
31	29	---	232	134	---	306	---	44	---	35	7.5	---
TOTAL	2,292	5,109	5,557	4,063	3,168	5,161	6,901	5,387	2,484	7,216	1,261.2	2,365.0
MEAN	73.9	170	179	131	113	166	230	174	82.8	233	40.7	78.8
MAX	142	482	471	279	184	306	404	581	433	1,100	154	340
MIN	29	23	71	58	58	59	34	24	14	28	7.5	3.8
CFSM	0.44	1.01	1.07	0.78	0.67	0.99	1.37	1.03	0.49	1.39	0.24	0.47
IN.	0.51	1.13	1.23	0.90	0.70	1.14	1.53	1.19	0.55	1.60	0.28	0.52

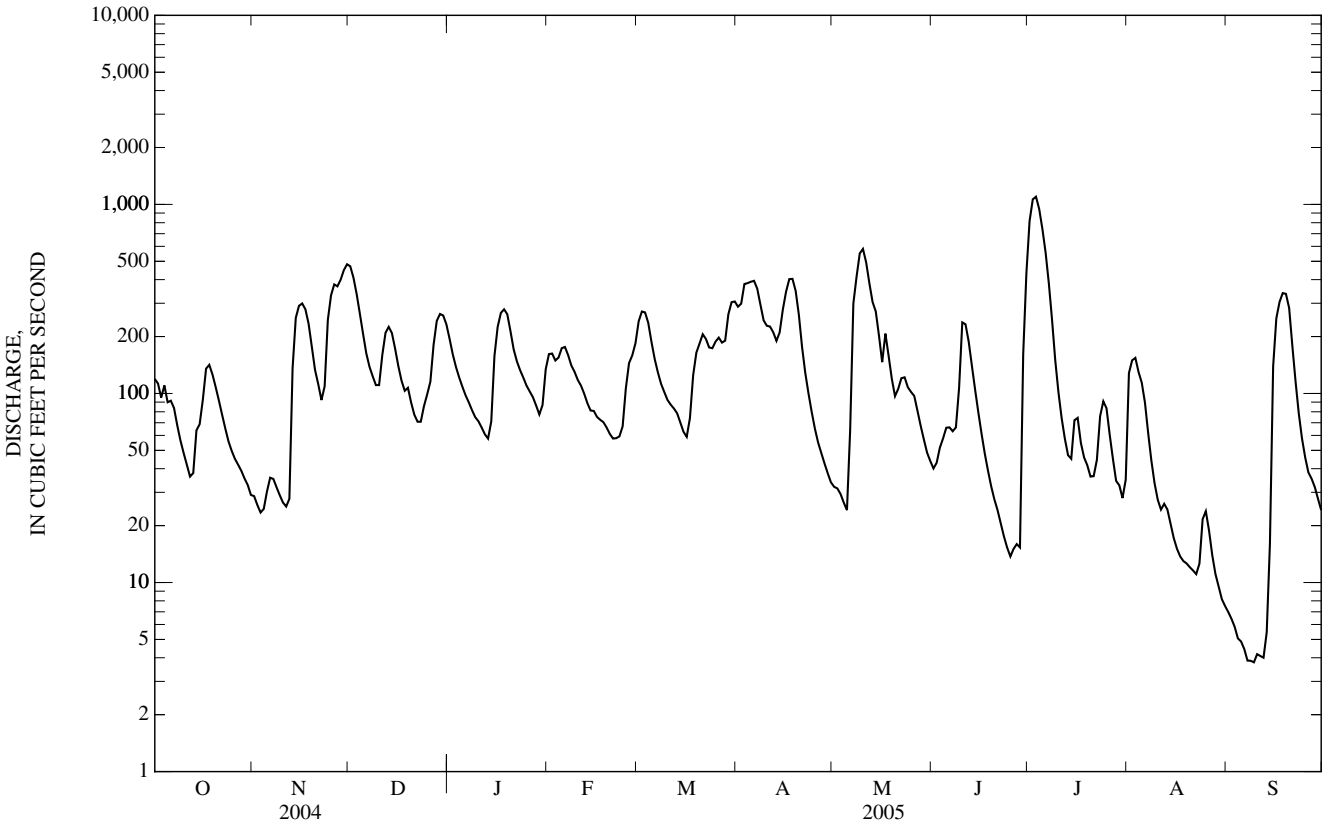
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	110	93.1	166	287	321	339	215	121	127	161	176	170
MAX	864	378	551	703	1,024	963	684	435	768	1,381	1,587	2,121
(WY)	(1972)	(2004)	(1958)	(1978)	(1998)	(1983)	(1973)	(1978)	(1961)	(1962)	(1955)	(1999)
MIN	1.58	1.80	6.65	17.2	31.8	36.5	23.1	10.2	2.77	4.78	1.81	2.55
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1985)	(1985)	(1993)	(1993)	(1995)

02092500 TRENT RIVER NEAR TRENTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	77,392		50,964.2			
ANNUAL MEAN	211		140		191	
HIGHEST ANNUAL MEAN					316	1960
LOWEST ANNUAL MEAN					74.2	2002
HIGHEST DAILY MEAN	3,160	Aug 17	1,100	Jul 3	12,000	Sep 17, 1999
LOWEST DAILY MEAN	18	May 29	3.8	Sep 9	0.33	Oct 7, 1993
ANNUAL SEVEN-DAY MINIMUM	20	May 27	4.0	Sep 6	0.39	Oct 22, 1973
MAXIMUM PEAK FLOW			1,120	Jul 3	15,000*	Sep 17, 1999
MAXIMUM PEAK STAGE			11.96	Jul 3	22.33*	Sep 17, 1999
INSTANTANEOUS LOW FLOW			3.6*	Sep 7	0.30*	Oct 23, 1974
ANNUAL RUNOFF (CFSM)	1.26		0.831		1.14	
ANNUAL RUNOFF (INCHES)	17.14		11.28		15.49	
10 PERCENT EXCEEDS	444		304		474	
50 PERCENT EXCEEDS	120		95		82	
90 PERCENT EXCEEDS	36		21		8.1	

* See REMARKS.



02092554 TRENT RIVER AT POLLOCKSVILLE, NC

LOCATION.--Lat 35°00'36", long 77°13'08", Jones County, Hydrologic Unit 03020204, at downstream side of bridge on U.S. Highway 17, 0.5 mi downstream from Goshen Branch, and 0.2 mi northeast of Pollocksville.

DRAINAGE AREA.--370 mi^2.

PERIOD OF RECORD.--July 1996 to current year.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929. Prior to Oct. 1999 datum reported as 10 ft below NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for negative daily discharges, which are poor. This site is strongly affected by both astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,600 ft^3/s, Sept. 19, 1999, maximum gage height, 16.29 ft, Sept. 19, 1999, from flood mark; minimum discharge, -3,560 ft^3/s, Sept. 6, 1996.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,230 ft^3/s, May 7, maximum gage height, 6.23 ft, Sept. 15; minimum discharge, -2,060 ft^3/s, Sept. 15.

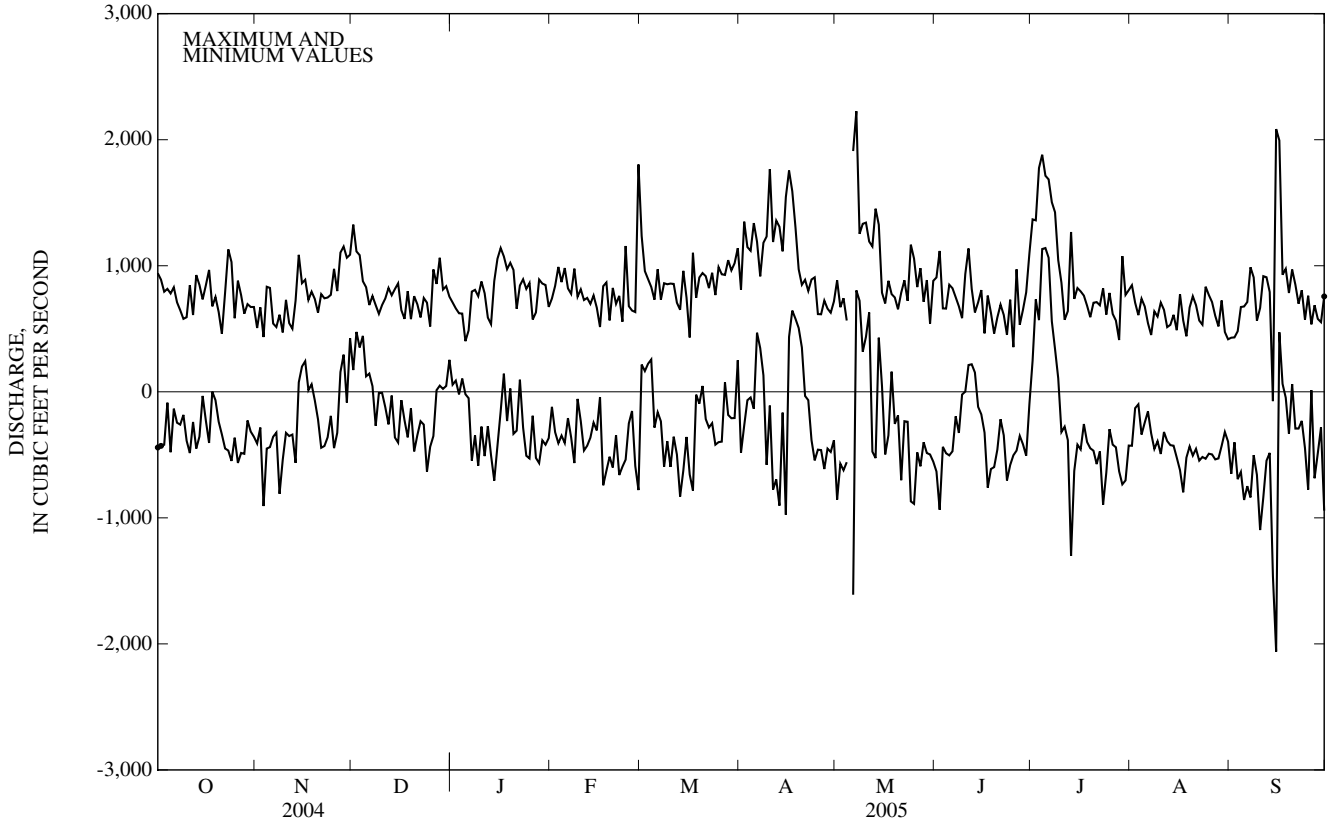
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	941	-442	506	-410	1,330	172	709	56	740	-119	1,240	216
2	890	-429	670	-284	1,110	475	661	89	840	-321	957	164
3	794	-420	434	-907	1,080	352	623	-20	991	-408	894	222
4	817	-86	833	-450	877	444	621	105	870	-347	831	256
5	780	-479	824	-439	830	122	402	-19	982	-406	731	-284
6	829	-134	541	-357	688	144	487	-51	820	-209	972	-163
7	710	-245	514	-324	759	45	795	-545	777	-362	731	-234
8	647	-261	612	-809	688	-270	809	-345	977	-565	861	-595
9	579	-183	471	-538	618	-9.7	758	-586	755	-56	853	-392
10	591	-388	729	-326	688	-9.4	875	-276	813	-234	859	-596
11	846	-486	545	-351	741	-123	781	-510	728	-466	856	-356
12	609	-239	500	-339	824	-258	588	-273	745	-428	706	-499
13	926	-451	723	-564	766	-30	537	-505	697	-364	651	-831
14	847	-355	1,090	75	815	-363	878	-705	764	-245	960	-625
15	733	-33	862	201	860	-403	1,060	-429	667	-306	747	-358
16	845	-228	889	243	648	-66	1,140	-154	514	-42	431	-657
17	967	-406	729	13	579	-227	1,070	144	838	-742	1,100	-783
18	678	1.5	794	59	799	-361	973	-232	867	-627	745	-23
19	752	-67	736	-68	576	-132	1,020	26	566	-515	907	-94
20	633	-237	628	-219	758	-473	967	-334	824	-601	942	46
21	461	-338	775	-444	694	-345	659	-308	698	-344	917	-216
22	788	-450	742	-430	590	-233	843	96	761	-660	823	-283
23	1,130	-466	748	-361	744	-260	893	-284	556	-595	944	-249
24	1,030	-548	769	-191	707	-633	817	-507	1,160	-538	767	-420
25	584	-364	975	-447	518	-436	863	-529	679	-251	989	-399
26	882	-564	799	-326	971	-352	574	-190	645	-152	932	-395
27	767	-485	1,100	157	856	13	630	-525	633	-588	927	75
28	620	-492	1,150	295	1,060	49	891	-566	1,800	-780	1,040	-184
29	696	-228	1,060	-85	811	23	859	-386	---	---	964	-210
30	673	-316	1,090	426	838	46	847	-420	---	---	1,020	-208
31	673	-357	---	---	755	254	674	-367	---	---	1,140	250
MONTH	1,130	-564	1,150	-907	1,330	-633	1,140	-705	1,800	-780	1,240	-831

02092554 TRENT RIVER AT POLLOCKSVILLE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	810	-483	884	-855	907	-632	1,370	247	846	-428	429	-651
2	1,350	-268	671	-571	1,120	-935	1,360	733	707	-130	431	-401
3	1,150	-67	742	-622	662	-437	1,780	569	608	-99	481	-693
4	1,120	-45	565	-559	660	-487	1,880	1,130	738	-339	673	-636
5	1,340	-135	---	---	849	-505	1,710	1,140	677	-244	677	-858
6	1,190	469	1,910	-1,610	821	-472	1,680	1,060	545	-156	712	-749
7	916	346	2,230	804	750	-195	1,500	560	451	-330	988	-838
8	1,180	131	1,250	722	678	-326	1,420	340	638	-453	908	-502
9	1,230	-580	1,330	318	584	-22	1,040	108	597	-392	563	-659
10	1,770	-109	1,340	436	934	1.4	865	-320	708	-493	665	-1,100
11	1,190	-776	1,190	629	1,140	212	572	-277	650	-319	917	-837
12	1,360	-695	1,150	-475	816	218	640	-384	513	-391	909	-546
13	1,310	-903	1,450	-526	630	153	1,270	-1,300	531	-423	792	-485
14	1,110	-165	1,330	429	709	-119	737	-628	611	-428	-74	-1,460
15	1,550	-976	787	46	807	-179	823	-419	489	-523	2,080	-2,060
16	1,760	435	701	-497	464	-324	797	-457	774	-622	1,990	472
17	1,590	644	881	-346	763	-760	763	-256	566	-797	929	63
18	1,300	579	775	160	626	-612	683	-399	441	-522	976	-47
19	972	506	748	-255	463	-598	592	-448	668	-434	784	-332
20	849	351	655	-187	590	-459	706	-467	758	-506	970	61
21	889	-33	786	-702	691	-218	712	-574	687	-453	850	-292
22	800	-66	884	-233	609	-346	686	-473	565	-546	699	-292
23	891	-383	722	-238	452	-703	821	-896	532	-517	806	-231
24	908	-544	1,170	-869	731	-581	613	-641	834	-531	573	-447
25	617	-459	1,060	-889	354	-504	785	-297	768	-491	762	-776
26	615	-462	831	-481	972	-466	618	-419	712	-497	535	12
27	724	-613	981	-591	532	-350	565	-440	603	-536	687	-686
28	660	-451	714	-400	651	-417	411	-631	519	-529	578	-488
29	628	-477	886	-486	789	-507	1,080	-734	724	-428	553	-282
30	717	-385	542	-497	1,100	-98	769	-703	474	-319	757	-943
31	---	---	880	-554	---	---	806	-427	416	-395	---	---
MONTH	1,770	-976	---	---	1,140	-935	1,880	-1,300	846	-797	2,080	-2,060



0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC

LOCATION.--Lat. 34°59'57", long. 76°56'35", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 11.

PERIOD OF RECORD.--Water years 1989 to 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.
pH (TOP AND BOTTOM): June 1996 to current year.
WATER TEMPERATURE (TOP): May to December 1989, January 1991 to July 1993, June 1996 to current year.
WATER TEMPERATURE (BOTTOM): June 1996 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.
DISSOLVED OXYGEN (MID): May to December 1989, January 1991 to July 1993.
DISSOLVED OXYGEN, PERCENT SATURATION, (TOP AND BOTTOM): May to December 1989, January 1991 to July 1993, June 1996 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION, (MID): May to December 1989, January 1991 to July 1993.

INSTRUMENTATION.-- Water-quality monitor from May to December 1989, January 1991 to July 1993. Constituents monitored were: specific conductance, top and bottom, water temperature top, dissolved oxygen, top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current year. Constituents monitored were the same as previous water years except, mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed on August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled October 6, 1999. The monitor was removed on September 15, 2003 to prevent possible destruction of the equipment during Hurricane Isabel. It was relocated approximately 150 feet west-southwest of old site on September 19, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 19, 2005. Prior to June 1996, top constituents were monitored at 10 feet above streambed, mid constituents at 6 feet above streambed, and bottom constituents 2 feet above streambed. Beginning in June 1996 top constituents were monitored at 8 feet above streambed, and bottom constituents 2 feet above streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	23.5, July 31, 2002	<0.1, on many days during the period
SALINITY (BOTOM), ppt	24.6, July 31, 2002	<0.1, on many days during the period
pH (TOP), standard units	9.9, March 17, 1999	5.7, February 16, 1998
pH (BOTTOM), standard units	9.6, April 3, 2004	4.3, August 21, 2003
WATER TEMPERATURE (TOP), ^{o} C	33.5 August 20, 2005	0.6, January 25, 2003
WATER TEMPERATURE (BOTTOM), ^{o} C	30.7, August 2, 2002, July 28, 29, 2005	1.2, January 24, 2003
DISSOLVED OXYGEN (TOP), mg/L	20.0, February 18, 1992	<1.0, on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	21.2, February 20, 1991	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	12.5, January 7	0.05, April 2, 3
SALINITY (BOTTOM), ppt	13.7, August 17, 18, 22, 23, 24	0.05, April 2
pH (TOP), standard units	9.2, May 11, 12	6.7, June 5, 6, 7, 8
pH (BOTTOM), standard units	8.9, May 13	6.5, October 29, November 1, 2, 3
WATER TEMPERATURE (TOP), ^{o}C	33.5, August 20	2.1, January 29
WATER TEMPERATURE (BOTTOM), ^{o}C	30.7, July 28, 29	2.8, January 29
DISSOLVED OXYGEN (TOP), mg/L	18.6, January 3	0.0, June 8
DISSOLVED OXYGEN (BOTTOM), mg/L	13.3, February 6, 7, 10	0.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	196, July 26	0, June 8
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	124, October 29	0, on many days during the year

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.3	1.7	2.0	8.2	7.1	7.6	6.2	4.2	5.4	9.0	6.0	7.5
2	1.9	1.5	1.7	7.5	6.9	7.2	6.0	4.6	5.1	9.5	6.0	8.8
3	1.8	1.3	1.5	7.7	7.2	7.5	5.2	3.8	4.4	8.3	4.5	6.6
4	1.8	1.2	1.6	7.7	6.8	7.5	4.3	2.9	3.6	9.9	6.8	8.6
5	2.0	1.2	1.5	8.1	6.7	7.5	3.9	1.8	2.6	10.5	7.2	10
6	2.1	1.9	2.0	7.5	6.5	7.0	6.3	1.8	3.8	11.7	10.2	10.6
7	2.3	1.7	2.0	8.3	7.1	7.7	7.3	4.2	5.9	12.5	9.6	10.9
8	2.4	1.9	2.1	8.8	7.9	8.3	7.3	4.0	6.4	10.4	7.7	9.4
9	2.3	1.5	2.0	8.8	8.0	8.3	7.1	4.2	5.9	9.3	7.2	8.4
10	2.0	1.5	1.7	8.2	7.6	7.9	8.5	5.4	7.3	9.3	7.8	8.7
11	2.3	1.7	1.9	7.7	6.7	7.2	7.2	4.2	5.9	10.7	5.7	9.1
12	2.5	1.4	2.0	7.7	5.7	6.9	9.0	6.0	7.7	10.8	7.2	8.8
13	3.8	1.6	2.4	7.7	6.3	7.3	8.8	7.8	8.3	9.6	8.3	9.0
14	3.1	1.7	2.1	7.6	7.2	7.4	8.3	6.6	7.3	9.9	7.3	8.8
15	4.7	2.3	3.0	7.6	6.1	7.1	7.4	7.1	7.2	9.3	8.3	8.8
16	7.3	2.3	5.0	6.7	4.5	5.9	7.4	6.7	7.1	9.7	7.3	9.0
17	6.2	2.9	5.3	8.1	4.1	5.3	8.1	5.3	6.7	9.3	7.1	8.3
18	6.5	3.1	4.7	9.2	3.8	7.4	6.7	4.6	5.5	8.3	6.6	7.5
19	6.0	3.6	4.8	9.2	7.5	8.7	8.8	4.9	6.6	10.4	5.4	8.4
20	5.7	4.3	4.9	9.2	7.0	8.6	8.1	6.6	7.4	10.7	5.0	7.1
21	6.0	4.0	4.8	8.9	5.8	7.8	7.9	7.3	7.5	5.6	2.6	4.3
22	7.8	5.3	6.4	8.9	5.5	6.6	7.9	7.3	7.6	9.5	2.5	5.4
23	8.3	5.6	6.9	7.5	5.5	6.2	7.5	6.3	6.9	7.5	6.3	6.9
24	7.2	5.3	6.1	6.8	6.0	6.4	7.9	6.5	7.3	7.2	6.4	6.8
25	6.8	5.5	6.0	8.6	6.0	7.3	8.3	7.3	7.8	7.5	6.7	7.2
26	7.0	6.3	6.8	8.6	4.9	6.2	8.3	7.2	8.0	7.3	5.6	6.5
27	6.6	5.7	6.1	6.4	4.9	6.0	7.5	5.7	7.0	6.2	3.2	5.0
28	6.6	5.9	6.2	6.2	4.4	5.6	7.2	5.4	6.1	6.7	3.3	5.2
29	6.7	6.0	6.3	5.7	5.1	5.3	7.7	6.1	7.0	6.9	4.4	5.9
30	7.1	6.1	6.6	5.6	5.1	5.3	7.9	5.9	6.8	5.5	3.3	4.5
31	8.0	7.0	7.4	---	---	---	7.9	4.8	6.5	5.0	4.5	4.8
MONTH	8.3	1.2	4.0	9.2	3.8	7.0	9.0	1.8	6.4	12.5	2.5	7.6
		FEBRUARY			MARCH			APRIL			MAY	
1	5.7	4.3	4.8	6.6	4.8	5.6	1.2	0.3	0.5	7.3	5.5	6.5
2	5.9	4.5	5.2	6.8	5.7	6.4	0.6	0.05	0.2	6.8	5.7	6.3
3	6.2	2.1	4.3	6.4	5.0	5.7	1.5	0.05	0.4	6.4	5.3	5.9
4	6.7	5.3	6.0	5.5	3.0	4.7	1.5	0.6	1.1	6.7	5.6	6.0
5	6.7	4.5	5.8	5.4	4.2	5.0	1.1	0.8	1.0	8.0	6.0	7.1
6	6.0	4.5	5.3	5.1	3.4	4.2	0.9	0.3	0.5	8.0	5.5	7.3
7	5.9	4.6	5.4	6.8	3.9	4.9	0.4	0.08	0.2	6.2	4.5	5.5
8	5.9	3.7	4.7	8.5	2.3	5.3	0.1	0.06	0.08	6.1	3.4	4.7
9	6.5	3.8	5.0	7.0	4.3	5.6	0.4	0.07	0.2	6.7	3.3	4.4
10	6.5	4.5	5.6	5.3	3.8	4.5	1.1	0.2	0.5	5.8	3.6	4.7
11	7.5	5.7	6.5	6.5	4.3	5.0	1.7	0.1	0.7	5.4	4.0	4.7
12	7.1	5.7	6.8	6.7	5.5	5.9	1.5	0.4	1.1	5.0	1.8	3.5
13	7.1	5.9	6.7	6.3	4.4	5.7	1.9	0.8	1.4	4.1	1.4	3.2
14	6.7	4.6	5.5	5.8	3.9	4.9	1.9	1.5	1.7	3.4	1.3	2.1
15	5.8	4.0	4.7	4.8	3.3	4.3	2.9	1.4	2.1	4.0	1.9	2.7
16	6.0	4.1	5.1	4.9	2.8	4.3	3.6	2.0	2.5	3.4	2.2	2.4
17	4.9	4.3	4.6	5.6	4.2	4.8	2.1	0.3	0.8	4.0	2.3	3.0
18	7.3	4.2	5.4	5.3	3.6	4.8	1.7	0.2	0.8	4.1	2.4	3.1
19	7.3	6.2	6.6	4.3	2.7	3.7	2.3	0.4	1.3	2.9	1.8	2.3
20	6.8	6.3	6.4	5.4	1.8	3.1	3.9	0.3	1.0	1.9	0.9	1.4
21	7.2	6.4	6.7	5.5	1.6	3.0	8.6	1.1	4.0	2.8	1.7	2.5
22	7.3	6.3	6.8	4.4	1.9	2.6	10	1.1	5.3	3.3	1.4	2.1
23	7.2	6.2	6.6	2.3	1.2	1.7	7.5	1.1	2.8	3.2	1.8	2.6
24	7.5	5.9	6.7	2.3	1.6	1.9	5.4	2.0	3.8	3.5	2.3	2.7
25	6.9	6.1	6.5	3.4	2.1	2.5	6.7	5.3	6.5	3.3	2.7	3.0
26	7.0	5.6	6.4	2.7	1.9	2.2	6.9	6.3	6.6	3.9	2.5	3.1
27	7.3	5.1	6.4	2.4	0.7	1.4	6.6	3.4	5.3	3.9	3.0	3.5
28	7.0	4.8	6.0	1.0	0.06	0.6	6.7	4.4	5.6	4.2	3.4	3.7
29	---	---	---	1.3	0.06	0.7	8.9	5.2	6.5	4.2	2.4	3.3
30	---	---	---	1.0	0.8	0.9	6.8	5.4	6.3	5.1	2.9	3.6
31	---	---	---	1.4	0.5	1.0	---	---	---	4.3	3.1	3.4
MONTH	7.5	2.1	5.8	8.5	0.06	3.8	10.0	0.05	2.4	8.0	0.9	3.9

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.7	3.7	4.3	6.7	5.5	6.1	7.1	4.4	5.9	8.8	8.0	8.3
2	5.7	3.2	4.6	6.4	5.2	5.7	7.3	4.8	6.8	8.2	6.5	7.8
3	5.0	3.0	3.7	7.4	5.7	6.5	6.5	2.2	3.3	8.1	6.4	7.3
4	5.4	4.6	5.0	6.8	5.7	6.4	6.0	2.0	2.9	8.9	7.6	8.3
5	5.4	3.2	4.7	6.7	4.3	5.5	6.2	2.6	3.4	9.4	8.6	9.0
6	5.5	3.4	5.0	6.4	3.1	4.5	3.9	3.0	3.3	9.3	8.5	8.9
7	6.1	3.3	4.8	7.0	2.9	5.2	4.1	3.2	3.6	9.0	8.3	8.7
8	8.3	3.7	5.6	7.1	5.9	6.4	4.5	3.5	4.0	9.0	8.0	8.5
9	6.8	3.1	4.5	6.9	3.8	5.5	5.2	3.4	4.4	8.5	8.1	8.3
10	4.5	3.2	3.8	6.0	3.8	4.7	4.7	2.6	3.9	9.3	8.3	8.8
11	4.1	2.9	3.4	5.9	4.2	4.8	5.4	2.5	3.7	---	---	---
12	4.5	3.0	3.6	7.6	4.0	5.4	6.2	3.7	4.3	---	---	---
13	4.6	2.5	3.4	9.7	5.6	8.2	5.5	3.2	3.8	---	---	---
14	4.7	3.1	4.2	8.8	6.5	7.3	3.9	2.9	3.3	---	---	---
15	5.8	3.4	4.6	7.3	6.1	6.6	3.9	3.1	3.4	---	---	---
16	5.0	2.6	3.8	7.3	4.5	6.3	8.0	1.9	3.9	---	---	---
17	4.0	2.7	3.4	7.3	4.3	5.7	5.0	3.8	4.2	---	---	---
18	6.0	3.3	4.2	7.4	3.0	4.7	5.6	4.0	4.6	---	---	---
19	7.0	5.7	6.4	8.7	3.8	5.7	6.5	5.5	6.0	---	---	---
20	7.0	5.7	6.4	8.5	5.5	7.0	6.7	5.3	6.2	7.7	5.4	6.5
21	7.0	4.9	5.7	10	6.5	8.0	6.2	5.3	5.7	7.8	7.1	7.5
22	7.0	4.9	5.8	9.2	6.2	8.0	6.5	5.4	6.0	8.6	6.5	7.8
23	7.3	6.3	6.8	8.8	6.6	7.5	7.2	6.1	6.7	7.5	6.0	6.7
24	7.4	6.4	6.9	8.1	5.2	7.2	7.4	6.0	6.9	8.0	5.4	6.5
25	8.0	7.0	7.5	7.8	4.5	6.2	7.8	7.3	7.5	8.6	7.9	8.1
26	7.9	6.4	6.9	6.9	3.9	5.9	8.1	7.4	7.7	7.9	6.5	7.1
27	6.9	6.2	6.5	6.3	3.8	5.2	8.3	7.8	8.1	8.6	7.2	7.9
28	7.0	6.3	6.5	7.5	5.2	6.1	8.4	7.8	8.2	8.6	8.1	8.5
29	6.7	6.0	6.3	7.8	5.7	6.9	8.4	7.5	8.1	8.6	6.4	7.4
30	6.5	6.0	6.3	6.8	5.5	6.1	8.0	7.3	7.6	8.8	6.9	8.3
31	---	---	---	6.6	4.7	5.7	8.2	7.6	7.9	---	---	---
MONTH	8.3	2.5	5.2	10.0	2.9	6.2	8.4	1.9	5.3	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.5	1.9	2.2	9.1	7.5	8.7	9.2	5.5	7.5	9.5	9.3	9.4
2	2.4	1.8	2.1	8.8	7.9	8.5	6.7	5.2	6.2	9.8	9.5	9.6
3	2.1	1.7	1.9	9.0	7.6	8.5	7.1	4.8	6.2	9.8	9.4	9.5
4	3.1	1.7	2.1	7.8	7.3	7.7	7.8	5.9	6.7	10.2	9.5	9.9
5	3.5	1.6	2.2	8.5	7.3	8.1	8.4	6.2	7.7	12.0	10.2	11.2
6	3.1	2.0	2.3	9.5	7.5	8.4	8.9	8.1	8.5	12.4	12.0	12.3
7	3.5	1.9	2.3	9.7	8.3	9.3	9.0	6.7	8.5	12.5	10.5	12.3
8	2.6	2.0	2.3	9.5	8.3	8.8	9.1	6.7	8.3	12.3	11.2	12.1
9	2.6	2.3	2.4	8.8	8.1	8.4	9.5	9.0	9.3	12.1	9.0	10.8
10	2.4	1.7	2.1	8.3	8.0	8.1	9.3	8.1	8.6	11.9	10.4	11.6
11	2.7	1.7	2.0	8.1	7.4	7.9	10.7	8.7	9.8	11.9	11.4	11.7
12	5.8	2.3	3.7	8.2	7.8	8.1	10.7	9.2	9.8	11.7	11.4	11.5
13	5.8	3.1	4.9	8.1	7.0	7.5	11.3	8.7	10.1	11.7	10	11.1
14	5.3	3.6	4.9	8.0	7.3	7.6	9.2	7.2	8.0	10.4	7.3	8.9
15	9.1	5.2	7.0	8.1	7.1	7.7	8.5	7.1	7.4	9.5	8.5	8.9
16	10	8.5	9.6	9.8	7.7	8.7	9.2	7.1	7.9	9.8	8.5	9.1
17	11.0	8.0	10.4	9.7	9.5	9.6	9.7	8.8	9.5	10.1	7.2	9.1
18	10.9	7.8	9.6	9.6	9.3	9.5	9.9	9.0	9.5	11.1	6.6	8.9
19	9.3	6.9	8.6	9.5	9.3	9.4	10.6	9.9	10.2	11.3	8.5	10.4
20	10.5	7.2	9.2	9.8	9.3	9.5	10.6	7.0	7.7	11.6	11.1	11.3
21	12.8	10.5	12.0	10.2	9.1	9.8	9.8	7.5	8.2	11.3	10.2	11.1
22	12.8	6.7	10	10.2	9.8	10.0	10.1	7.5	9.0	11.1	9.7	10.9
23	12.7	6.0	9.3	10.2	9.3	9.8	9.8	6.5	7.7	10.2	6.3	7.5
24	12.6	6.5	10.9	9.8	9.2	9.5	8.5	6.8	7.6	8.6	6.5	7.4
25	11.7	6.0	9.1	9.3	7.3	8.4	8.2	7.3	7.8	8.9	7.6	8.5
26	9.3	6.4	7.5	8.8	5.8	7.0	8.3	7.2	8.0	8.6	7.5	8.1
27	10.0	7.6	9.4	8.4	6.0	6.7	8.3	7.2	7.7	8.6	5.6	6.7
28	9.8	7.1	9.2	9.2	6.0	8.4	9.3	6.2	8.4	7.1	4.5	6.3
29	9.4	7.1	8.2	8.7	5.6	6.5	9.3	9.0	9.1	7.6	6.2	7.1
30	9.2	7.2	8.4	9.7	6.7	8.7	9.3	9.2	9.3	8.1	4.4	6.8
31	9.1	8.3	8.7	---	---	---	9.3	9.2	9.3	6.1	4.6	5.0
MONTH	12.8	1.6	6.3	10.2	5.6	8.5	11.3	4.8	8.4	12.5	4.4	9.5
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	4.9	5.7	7.0	5.3	5.9	1.5	0.7	1.1	10	5.7	7.7
2	7.5	5.4	6.3	6.7	6.1	6.5	0.8	0.05	0.2	10.5	7.6	9.4
3	7.4	5.5	6.4	6.7	5.5	6.2	2.0	0.06	0.4	9.8	6.0	8.3
4	6.7	6.0	6.2	6.4	5.3	6.0	1.9	1.2	1.5	7.3	6.3	6.7
5	6.8	6.0	6.6	8.6	4.9	6.9	1.6	0.9	1.2	8.0	6.3	7.2
6	6.7	5.3	6.1	10.1	4.5	8.3	1.0	0.6	0.8	8.1	5.6	7.4
7	7.0	5.4	6.1	10.2	7.0	9.6	2.4	0.08	0.7	8.8	5.4	6.2
8	7.0	5.9	6.5	9.7	2.3	6.3	1.1	0.06	0.3	9.2	6.6	8.8
9	6.9	6.5	6.8	9.2	6.7	7.3	1.6	0.09	0.3	8.8	7.3	8.4
10	7.6	5.6	6.5	7.1	4.5	6.1	6.6	0.4	1.9	8.1	5.9	7.4
11	8.0	5.8	6.8	7.3	5.4	6.8	6.5	4.5	5.6	6.7	4.9	5.9
12	11.5	6.7	9.5	6.7	5.5	5.9	5.3	1.2	2.2	7.0	4.6	6.1
13	11.9	7.1	10.6	6.5	5.5	6.3	1.9	1.1	1.5	6.5	2.6	4.1
14	11.2	7.5	9.7	5.8	4.7	5.1	1.9	1.5	1.7	5.9	3.2	4.7
15	11.1	8.0	9.8	5.3	4.4	5.0	2.9	1.4	2.1	5.7	4.5	5.1
16	12.2	10.4	11.5	5.8	4.5	5.2	3.6	2.0	2.6	6.1	4.3	5.4
17	12.0	11.7	12.0	5.6	4.3	5.0	3.2	0.6	1.9	5.5	2.6	3.6
18	12.2	6.1	10.7	5.8	4.8	5.1	4.1	2.9	3.6	4.2	2.9	3.7
19	11.6	6.8	9.3	6.0	3.6	5.3	3.9	2.0	3.3	3.7	2.6	3.0
20	10.9	6.7	9.4	6.2	5.1	5.8	6.4	3.8	5.0	3.5	1.2	2.5
21	11.1	6.7	9.5	6.2	5.1	6.0	9.8	6.4	8.3	3.2	1.9	2.5
22	10.5	6.7	8.0	6.1	2.3	4.4	10.2	7.4	9.5	4.5	2.5	3.5
23	9.2	6.3	7.2	5.2	1.6	3.6	9.5	4.2	6.7	4.9	3.9	4.7
24	7.7	6.0	6.9	4.2	1.8	3.4	8.7	5.5	7.4	4.9	2.7	4.0
25	7.8	6.1	6.8	3.5	2.3	2.9	9.0	6.3	7.1	4.4	2.7	3.3
26	9.0	6.7	7.8	3.4	2.2	2.6	7.1	6.5	6.8	4.8	2.8	3.9
27	8.8	6.2	7.6	2.6	1.4	2.0	10.7	6.1	7.8	5.6	3.4	4.6
28	7.1	5.3	6.3	1.8	0.06	0.9	12.2	6.4	10.7	5.9	4.7	5.6
29	---	---	---	1.8	0.06	0.8	12.0	10.2	11.5	6.5	4.5	5.9
30	---	---	---	1.6	0.9	1.2	11.5	5.5	8.4	7.6	6.4	7.1
31	---	---	---	1.4	0.9	1.2	---	---	---	7.6	3.7	6.2
MONTH	12.2	4.9	8.0	10.2	0.06	5.0	12.2	0.05	4.1	10.5	1.2	5.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND—CONTINUEDBOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.9	4.3	4.5	8.8	7.8	8.4	8.1	7.4	7.7	9.0	8.4	8.6
2	5.9	4.1	5.2	10.3	8.8	9.8	7.6	7.1	7.3	9.7	8.4	8.7
3	5.8	4.8	5.5	10.2	6.7	8.2	8.6	7.2	7.7	10.6	9.0	10.2
4	5.9	5.7	5.8	7.6	6.4	6.9	8.9	8.6	8.7	9.8	8.4	9.0
5	6.0	5.6	5.8	7.9	6.8	7.6	8.6	7.7	8.2	9.3	8.5	9.0
6	6.1	5.2	5.9	8.2	7.6	8.0	8.8	7.8	8.3	9.4	8.7	8.9
7	7.6	5.4	7.1	8.8	8.2	8.5	8.9	5.5	7.6	9.3	8.4	8.8
8	10	7.5	9.1	8.3	6.2	7.1	6.1	5.4	5.8	9.2	8.6	8.8
9	10.2	7.3	8.7	8.6	7.4	8.1	7.3	5.6	6.3	8.9	8.2	8.5
10	8.5	4.7	6.4	9.0	8.3	8.8	8.6	7.0	8.1	9.3	8.3	8.8
11	7.5	4.1	5.3	9.0	8.2	8.8	9.0	8.5	8.8	---	---	---
12	5.5	4.6	5.0	10.0	9.0	9.4	10.2	8.8	9.7	---	---	---
13	8.2	4.7	5.8	10.5	7.8	9.5	10.6	9.3	10.1	---	---	---
14	10.9	8.2	10.0	9.5	8.3	9.3	10.8	9.8	10.5	---	---	---
15	12.2	10.7	11.5	9.1	7.8	8.5	12.4	10.7	11.5	---	---	---
16	12.8	11.5	12.4	8.8	8.0	8.4	13.0	12.4	12.7	---	---	---
17	13.1	12.7	12.9	9.0	8.3	8.7	13.7	12.6	13.2	---	---	---
18	12.8	11.5	12.5	9.3	8.8	9.1	13.7	12.8	13.5	---	---	---
19	12.4	6.7	8.4	11.1	9.3	10.4	13.1	10.7	12.6	---	---	---
20	7.6	6.0	7.1	12.4	10.7	11.5	13.0	10.7	12.6	10.2	8.3	9.5
21	9.8	6.5	7.6	12.8	11.1	12.3	13.3	12.0	13.0	10	7.5	8.7
22	10.4	9.1	9.9	12.8	11.2	12.4	13.7	13.1	13.6	9.0	8.0	8.5
23	9.7	7.0	8.4	12.6	9.2	12.1	13.7	13.5	13.7	9.9	8.4	9.0
24	7.8	7.0	7.4	12.4	8.1	9.6	13.7	13.6	13.7	10.9	8.2	9.9
25	7.9	7.1	7.6	11.9	8.0	10.0	13.6	7.6	9.1	9.7	8.0	8.3
26	8.0	7.2	7.7	11.5	9.2	10.4	8.3	7.7	7.9	8.8	8.0	8.5
27	8.3	7.6	8.0	11.2	9.6	10.5	8.5	8.0	8.3	8.8	7.6	8.3
28	8.1	7.6	7.9	10.6	6.9	9.3	8.6	8.2	8.5	8.9	8.4	8.6
29	7.7	6.4	7.1	8.0	6.5	7.4	8.8	8.3	8.6	9.0	8.2	8.7
30	7.8	6.7	7.3	7.9	7.1	7.5	9.2	8.6	8.9	8.9	8.0	8.6
31	---	---	---	7.9	7.5	7.7	9.7	8.1	8.8	---	---	---
MONTH	13.1	4.1	7.8	12.8	6.2	9.2	13.7	5.4	9.8	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS,TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.7	7.9	8.8	7.3	8.0	8.4	7.6	8.0	8.7	7.6	8.3
2	8.3	7.7	7.8	8.4	7.4	8.1	8.4	7.7	8.1	8.8	7.3	7.6
3	8.6	7.7	7.9	7.9	7.1	7.4	8.3	7.8	8.1	9.0	7.9	8.6
4	8.4	7.6	7.9	7.9	7.3	7.6	8.4	7.9	8.1	8.6	7.0	7.7
5	8.6	8.1	8.3	7.9	7.3	7.5	8.2	7.8	8.0	8.2	7.0	7.2
6	8.6	7.8	8.1	8.2	7.7	7.8	8.2	6.9	7.6	7.3	7.2	7.2
7	8.5	8.0	8.2	7.9	7.6	7.8	8.3	7.1	7.8	7.6	7.3	7.4
8	8.5	7.9	8.2	7.8	7.4	7.6	8.9	7.1	7.7	7.8	7.5	7.6
9	8.8	7.9	8.4	7.8	7.5	7.7	8.5	7.2	7.7	7.8	7.6	7.7
10	8.8	8.5	8.6	7.9	7.7	7.8	7.4	7.0	7.2	7.8	7.5	7.7
11	8.5	8.1	8.3	8.0	7.8	7.9	7.9	7.2	7.6	8.1	7.6	7.9
12	8.7	8.0	8.2	8.1	7.8	7.9	8.0	7.5	7.7	8.3	7.5	7.9
13	8.5	7.3	8.0	8.0	7.6	7.7	8.5	7.6	8.0	7.8	7.2	7.6
14	8.1	7.5	7.8	7.8	7.6	7.7	8.4	7.9	8.1	7.7	7.4	7.6
15	7.8	7.1	7.4	8.0	7.7	7.9	8.1	7.8	8.0	7.7	7.6	7.6
16	8.1	7.2	7.5	8.2	7.9	8.1	8.7	7.9	8.1	7.7	7.6	7.6
17	8.2	7.4	7.7	8.2	7.5	8.0	8.8	7.9	8.4	7.8	7.6	7.7
18	8.6	7.5	8.0	8.3	7.3	7.6	8.9	8.6	8.8	7.8	7.7	7.7
19	8.4	7.2	7.9	8.1	7.4	7.6	8.9	7.8	8.4	7.8	7.6	7.8
20	8.4	7.3	7.9	8.1	7.3	7.7	8.2	7.5	7.8	8.2	7.6	7.8
21	8.1	7.5	7.8	8.3	7.3	7.7	8.2	7.6	7.9	7.9	7.6	7.8
22	7.8	7.4	7.6	8.7	7.3	8.1	8.4	7.8	8.1	7.8	7.5	7.7
23	7.9	7.5	7.7	8.6	8.1	8.5	8.3	7.9	8.1	7.6	7.4	7.5
24	7.8	7.5	7.6	8.6	8.2	8.4	8.0	7.8	7.9	7.6	7.5	7.5
25	8.1	7.7	7.9	8.4	7.2	7.7	8.1	7.9	8.0	7.8	7.6	7.6
26	8.2	7.7	7.9	8.2	7.5	7.8	8.0	7.8	7.9	7.7	7.6	7.7
27	8.4	8.0	8.1	8.5	7.9	8.1	8.1	7.8	7.9	7.7	7.5	7.6
28	8.4	8.2	8.2	8.3	7.8	8.1	8.0	7.8	7.9	7.7	7.5	7.6
29	8.5	8.1	8.3	8.1	7.9	8.0	8.2	7.8	8.0	8.0	7.6	7.7
30	8.8	8.0	8.4	8.6	8.0	8.2	8.4	8.0	8.2	7.7	7.5	7.6
31	8.5	7.4	7.9	---	---	---	8.6	8.2	8.4	7.6	7.5	7.6
MONTH	8.8	7.1	8.0	8.8	7.1	7.9	8.9	6.9	8.0	9.0	7.0	7.7
		FEBRUARY			MARCH			APRIL			MAY	
1	7.8	7.5	7.6	8.2	7.8	8.0	7.9	7.4	7.6	8.2	7.6	7.7
2	8.0	7.5	7.7	8.1	7.9	8.0	7.7	7.1	7.3	8.5	7.6	8.0
3	8.1	7.8	7.9	8.2	7.8	8.0	7.5	7.1	7.4	8.4	7.7	8.1
4	8.1	7.9	8.0	8.6	8.0	8.2	7.8	7.3	7.5	8.3	7.9	8.1
5	8.1	7.8	8.0	8.4	7.9	8.2	8.2	7.5	7.8	8.1	7.5	7.7
6	8.3	7.9	8.1	8.5	8.2	8.3	8.3	7.5	7.8	7.5	7.4	7.4
7	8.4	8.2	8.2	8.6	7.9	8.5	7.7	7.2	7.4	7.8	7.4	7.5
8	8.6	8.1	8.4	8.4	7.2	7.7	7.3	7.1	7.2	8.3	7.4	7.8
9	8.5	8.2	8.4	8.4	7.5	7.8	7.4	7.1	7.3	8.7	7.9	8.3
10	8.3	7.8	8.1	8.5	7.9	8.2	7.8	7.3	7.4	8.8	8.3	8.6
11	8.0	7.8	7.8	8.7	7.3	8.2	8.3	7.3	7.6	9.2	8.5	8.8
12	8.0	7.7	7.9	8.3	7.4	8.0	8.1	7.6	7.9	9.2	8.6	8.9
13	8.2	7.9	8.0	8.8	8.0	8.2	7.8	7.6	7.7	8.9	8.1	8.7
14	8.3	8.0	8.1	8.5	8.1	8.3	7.8	7.6	7.7	8.6	7.9	8.3
15	8.5	8.0	8.2	8.8	8.2	8.5	7.8	7.4	7.6	8.6	7.6	8.3
16	8.5	8.2	8.3	8.6	8.3	8.5	7.8	7.5	7.7	8.8	7.3	8.2
17	8.4	8.2	8.3	8.3	7.9	8.1	7.8	7.5	7.6	8.9	7.6	8.6
18	8.2	7.8	8.1	8.0	7.6	7.8	7.8	7.2	7.5	8.9	8.3	8.7
19	8.3	7.9	8.1	8.0	7.8	7.9	8.2	7.2	7.6	8.9	8.6	8.7
20	8.5	8.3	8.4	8.2	7.7	7.9	7.4	7.0	7.1	8.8	7.4	8.0
21	8.4	8.2	8.3	8.2	7.7	8.0	7.3	7.0	7.1	8.7	7.7	8.2
22	8.5	8.2	8.4	8.3	7.9	8.2	7.2	7.0	7.1	8.9	7.6	8.5
23	8.5	8.4	8.5	8.0	7.4	7.6	7.3	7.1	7.2	8.8	8.5	8.6
24	8.5	8.3	8.4	8.2	7.4	7.7	7.6	7.2	7.4	8.9	8.4	8.7
25	8.4	8.1	8.3	8.4	7.8	8.1	8.0	7.4	7.7	8.6	7.7	8.1
26	8.4	8.0	8.2	8.4	7.8	8.0	8.3	7.6	7.9	8.3	7.2	7.9
27	8.4	8.1	8.3	8.2	7.4	7.8	8.3	7.7	7.9	8.3	7.3	7.9
28	8.3	7.9	8.1	7.6	7.0	7.3	8.4	7.8	8.1	8.0	7.3	7.7
29	---	---	---	8.0	7.0	7.5	8.3	7.2	7.8	8.7	7.7	8.2
30	---	---	---	8.6	7.5	7.9	8.2	7.7	7.9	8.4	6.8	7.6
31	---	---	---	8.4	7.7	8.0	---	---	---	8.1	7.4	7.8
MONTH	8.6	7.5	8.1	8.8	7.0	8.0	8.4	7.0	7.6	9.2	6.8	8.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS,TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	7.2	7.3	8.2	7.2	7.7	8.3	7.4	7.7	8.4	7.7	8.0
2	7.7	7.2	7.3	8.3	7.2	7.7	8.3	7.5	8.0	8.5	7.9	8.2
3	8.0	7.1	7.3	8.1	7.4	7.7	8.7	8.0	8.3	8.4	8.1	8.3
4	7.2	6.9	7.1	8.2	7.6	7.9	8.9	7.6	8.4	8.1	7.9	8.0
5	8.0	6.7	7.0	8.3	7.7	7.9	9.0	7.7	8.5	8.0	7.8	7.9
6	8.4	6.7	6.8	8.3	7.6	7.9	8.5	7.5	8.1	8.0	7.8	7.9
7	8.2	6.7	6.8	8.5	7.6	8.1	8.4	7.1	8.0	8.0	7.8	7.9
8	7.1	6.7	6.8	8.3	7.4	7.7	8.4	7.8	8.1	8.1	7.8	7.9
9	8.7	6.8	7.6	8.8	7.8	8.2	8.5	7.5	8.0	8.0	7.8	7.9
10	8.7	8.0	8.3	8.7	7.7	8.4	8.8	8.2	8.5	8.0	7.8	7.9
11	8.5	7.9	8.3	8.8	7.7	8.4	8.8	7.4	8.3	---	---	---
12	8.7	7.8	8.2	8.4	7.0	7.6	8.7	7.2	7.9	---	---	---
13	8.6	7.4	8.2	7.5	7.0	7.2	8.7	7.5	8.3	---	---	---
14	8.5	7.2	7.7	8.2	7.1	7.5	8.8	8.3	8.5	---	---	---
15	8.3	7.3	7.7	8.5	7.4	8.0	8.7	8.1	8.4	---	---	---
16	8.5	7.4	8.0	8.4	7.2	7.9	8.7	6.9	8.1	---	---	---
17	8.4	7.7	8.0	8.2	7.1	7.7	8.1	7.5	7.8	---	---	---
18	8.1	7.5	7.9	8.1	7.0	7.6	8.2	7.6	7.9	---	---	---
19	7.9	7.5	7.7	8.4	6.8	7.4	8.3	7.8	8.1	---	---	---
20	7.8	7.6	7.7	8.1	7.0	7.5	8.6	7.7	8.1	8.7	7.8	8.4
21	8.3	7.6	7.9	8.6	7.1	7.8	8.5	8.1	8.2	8.5	8.2	8.3
22	8.4	7.7	8.0	8.4	7.1	7.6	8.6	7.7	8.2	8.6	8.2	8.4
23	8.2	7.8	8.0	8.4	7.9	8.1	8.6	8.3	8.4	8.6	8.1	8.4
24	8.1	7.7	7.9	8.4	8.0	8.2	8.6	8.1	8.3	8.7	8.1	8.4
25	8.0	7.7	7.8	8.7	8.2	8.4	8.2	7.9	8.1	8.6	8.2	8.3
26	8.1	7.6	7.8	9.0	8.0	8.4	8.4	8.0	8.2	8.5	8.1	8.3
27	8.2	7.8	7.9	8.8	7.2	8.2	8.1	8.0	8.1	8.4	7.7	8.1
28	8.1	7.6	7.9	8.4	7.1	7.9	8.2	7.8	8.0	8.3	8.1	8.2
29	7.9	7.5	7.7	8.1	7.4	7.7	8.2	7.8	8.1	8.5	8.0	8.2
30	8.5	7.4	7.8	8.0	7.5	7.7	8.4	8.0	8.1	8.2	7.8	8.0
31	---	---	---	8.0	7.5	7.7	8.1	7.8	7.9	---	---	---
MONTH	8.7	6.7	7.7	9.0	6.8	7.9	9.0	6.9	8.1	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.5	7.7	7.7	6.5	6.7	8.1	7.2	7.6	7.5	7.3	7.4
2	7.7	7.4	7.6	7.2	6.5	6.7	8.0	7.4	7.7	7.3	7.2	7.2
3	7.7	7.3	7.5	7.5	6.5	6.7	8.3	7.3	7.8	7.3	7.0	7.2
4	7.8	7.2	7.5	7.4	6.9	7.2	8.2	7.3	7.8	7.1	7.0	7.0
5	8.2	7.2	7.7	7.3	7.0	7.1	8.1	7.3	7.5	7.3	7.1	7.2
6	8.1	7.3	7.7	7.4	6.8	7.1	7.5	7.2	7.3	7.3	7.1	7.2
7	8.2	6.9	7.6	7.4	6.8	6.9	7.6	7.2	7.3	7.5	7.1	7.2
8	8.3	7.1	7.7	7.6	6.8	7.2	7.6	7.2	7.3	7.2	7.0	7.1
9	8.1	7.3	7.6	7.6	7.3	7.4	7.4	7.2	7.3	7.6	6.9	7.2
10	8.5	7.6	8.0	7.7	7.5	7.6	7.5	7.2	7.4	7.2	6.9	7.0
11	8.4	7.5	8.2	7.7	7.5	7.6	7.6	7.3	7.4	7.3	7.0	7.1
12	8.0	6.9	7.4	7.5	7.4	7.4	8.0	7.3	7.7	7.2	7.0	7.1
13	7.6	7.0	7.1	7.7	7.4	7.6	8.3	7.3	7.6	7.3	7.0	7.1
14	7.3	7.0	7.1	7.9	7.6	7.7	8.4	7.6	8.1	7.6	7.1	7.5
15	7.2	7.0	7.1	7.9	7.7	7.8	8.2	7.9	8.1	7.7	7.5	7.6
16	7.4	7.2	7.3	7.9	7.4	7.7	8.0	7.8	7.9	7.7	7.5	7.6
17	7.4	7.2	7.3	7.7	7.4	7.5	7.8	7.3	7.5	7.7	7.5	7.6
18	7.4	7.2	7.2	7.4	7.3	7.3	7.6	7.2	7.4	7.7	7.5	7.6
19	7.4	7.1	7.2	7.4	7.2	7.3	7.2	7.0	7.1	7.7	7.5	7.6
20	7.3	7.2	7.2	7.4	7.2	7.2	8.1	7.0	7.8	7.5	7.5	7.5
21	7.3	7.2	7.3	7.4	7.2	7.3	8.2	7.6	7.8	7.5	7.3	7.4
22	8.2	7.3	7.6	7.3	7.2	7.2	8.4	7.4	7.7	7.3	7.2	7.3
23	8.2	7.3	7.7	7.2	7.1	7.1	8.4	7.2	7.9	7.5	7.3	7.4
24	7.9	7.3	7.4	7.2	7.0	7.1	8.1	7.3	7.9	7.8	7.5	7.6
25	8.1	7.4	7.6	8.0	6.9	7.3	8.2	8.0	8.1	7.8	7.6	7.7
26	8.1	7.4	7.8	8.0	7.4	7.6	8.2	7.9	8.1	7.7	7.4	7.5
27	7.8	7.2	7.4	8.4	7.5	8.2	8.2	7.9	8.0	7.6	7.4	7.5
28	7.8	7.4	7.4	8.2	7.5	7.7	8.0	7.6	7.8	7.7	7.4	7.5
29	8.0	6.5	7.2	8.2	7.3	7.9	7.9	7.7	7.8	7.9	7.6	7.7
30	7.6	6.6	6.9	8.2	7.3	7.5	7.7	7.6	7.6	7.7	7.4	7.6
31	7.2	6.6	6.7	---	---	---	7.6	7.5	7.5	7.7	7.5	7.6
MONTH	8.5	6.5	7.4	8.4	6.5	7.4	8.4	7.0	7.7	7.9	6.9	7.4
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.5	7.7	8.2	7.9	8.0	7.3	7.1	7.2	8.1	7.1	7.6
2	7.8	7.4	7.6	8.0	7.9	8.0	7.3	7.0	7.1	7.4	7.1	7.2
3	7.9	7.4	7.7	8.1	7.7	7.9	7.2	7.0	7.1	8.2	7.1	7.4
4	8.0	7.8	7.9	8.1	7.7	7.9	7.2	7.0	7.1	8.6	7.5	8.1
5	8.1	7.8	7.9	8.3	7.2	7.6	8.3	7.1	7.5	8.5	7.9	8.1
6	8.2	8.0	8.0	8.2	7.3	7.6	8.1	7.1	7.6	8.0	7.8	7.8
7	8.2	7.7	8.1	7.9	7.2	7.4	7.4	6.9	7.1	8.0	7.8	7.9
8	8.1	7.8	7.9	8.1	7.1	7.4	7.3	7.0	7.2	8.2	7.7	7.8
9	8.2	7.7	7.9	7.5	7.3	7.4	7.7	7.0	7.3	8.0	7.5	7.6
10	8.2	7.3	7.9	8.6	7.3	7.7	8.0	6.9	7.4	8.6	6.9	7.6
11	7.9	7.3	7.7	8.3	7.3	7.4	8.1	7.0	7.4	8.6	7.3	8.2
12	7.8	7.4	7.5	8.4	7.5	8.2	8.1	7.0	7.7	8.6	6.9	7.5
13	7.9	7.2	7.3	8.4	8.0	8.2	7.8	7.6	7.7	8.9	7.0	8.3
14	7.6	7.1	7.2	8.5	8.0	8.3	7.8	7.6	7.7	8.7	6.8	7.4
15	7.4	6.9	7.1	8.7	8.1	8.3	7.8	7.4	7.5	7.0	6.8	6.9
16	7.4	7.0	7.1	8.7	8.1	8.3	7.8	7.5	7.6	7.1	6.8	6.8
17	7.1	7.0	7.1	8.4	8.1	8.2	7.7	7.2	7.4	8.7	6.8	8.0
18	8.0	7.1	7.3	8.1	7.8	7.9	7.4	7.3	7.3	8.8	7.8	8.4
19	8.0	7.1	7.7	8.1	7.7	7.9	7.5	7.0	7.2	8.8	6.9	8.1
20	8.3	7.0	7.6	8.0	7.6	7.8	7.0	6.9	7.0	8.2	6.8	7.3
21	8.2	6.9	7.3	8.0	7.4	7.6	7.1	6.9	7.1	8.8	7.0	8.2
22	8.5	6.9	8.0	8.4	7.4	7.8	7.2	7.0	7.1	8.6	7.1	7.8
23	8.5	7.2	8.2	8.2	7.2	7.4	7.3	6.9	7.1	7.2	6.8	7.0
24	8.4	8.2	8.3	7.9	7.1	7.3	7.7	7.0	7.3	8.7	6.8	7.3
25	8.3	7.8	8.1	8.1	7.7	7.9	8.0	7.2	7.6	8.4	6.8	7.9
26	8.1	7.3	7.9	8.0	7.6	7.7	8.3	7.6	7.9	7.8	7.0	7.3
27	8.3	7.4	8.0	7.8	7.4	7.6	8.1	7.1	7.4	7.9	6.8	7.0
28	8.3	7.9	8.1	7.4	7.0	7.3	8.3	7.1	7.3	6.9	6.7	6.7
29	---	---	---	7.4	7.0	7.2	7.4	7.0	7.1	6.8	6.7	6.7
30	---	---	---	7.4	7.2	7.3	8.5	7.0	7.6	6.7	6.7	6.7
31	---	---	---	7.4	7.3	7.3	---	---	---	7.7	6.7	6.9
MONTH	8.5	6.9	7.7	8.7	7.0	7.7	8.5	6.9	7.4	8.9	6.7	7.5

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.1	7.3	7.1	6.8	7.0	7.8	7.0	7.3	7.8	7.4	7.7
2	7.5	7.1	7.3	6.8	6.8	6.8	8.0	7.3	7.6	7.5	7.0	7.2
3	7.1	6.9	7.0	7.9	6.8	7.2	7.8	6.8	7.2	7.2	7.0	7.0
4	7.0	6.8	6.9	8.0	7.1	7.6	7.0	6.8	6.9	8.1	7.0	7.5
5	6.9	6.7	6.8	7.9	7.3	7.7	6.9	6.8	6.8	8.0	7.8	7.9
6	6.7	6.6	6.7	7.5	7.2	7.4	6.9	6.8	6.9	8.0	7.7	7.9
7	6.7	6.6	6.7	7.2	6.9	7.0	7.2	6.8	6.9	8.1	7.8	7.9
8	6.7	6.7	6.7	7.6	6.9	7.3	7.9	7.1	7.4	8.0	7.8	7.9
9	6.8	6.7	6.7	7.8	6.9	7.1	7.3	6.8	7.1	8.0	7.5	7.8
10	7.2	6.7	6.9	7.0	6.9	7.0	6.9	6.8	6.8	8.0	7.8	7.9
11	7.8	6.7	7.1	7.0	6.8	6.9	7.0	6.8	6.9	---	---	---
12	7.6	7.0	7.3	7.0	6.9	7.0	7.0	7.0	7.0	---	---	---
13	7.1	6.7	6.9	7.5	6.9	7.2	7.1	7.0	7.0	---	---	---
14	7.1	6.8	7.0	7.3	7.1	7.2	7.0	7.0	7.0	---	---	---
15	7.1	6.7	7.0	7.5	7.0	7.3	7.0	7.0	7.0	---	---	---
16	7.1	7.0	7.0	7.5	7.2	7.4	7.1	7.0	7.0	---	---	---
17	7.1	7.0	7.0	7.4	7.0	7.1	7.2	7.0	7.1	---	---	---
18	7.1	7.0	7.1	7.0	6.9	7.0	7.2	7.1	7.1	---	---	---
19	7.8	7.0	7.4	6.9	6.9	6.9	7.2	7.0	7.1	---	---	---
20	7.8	7.4	7.6	7.0	6.8	6.9	7.1	7.0	7.1	7.9	6.9	7.2
21	7.7	7.1	7.5	6.8	6.7	6.8	7.0	7.0	7.0	8.1	6.9	7.4
22	7.2	6.9	7.0	6.8	6.7	6.8	7.0	7.0	7.0	8.3	7.9	8.1
23	8.1	6.9	7.3	6.8	6.6	6.8	7.0	6.7	7.0	8.1	7.1	7.7
24	8.0	7.6	7.8	8.0	6.7	7.4	7.0	7.0	7.0	7.8	7.0	7.2
25	7.9	7.6	7.8	7.9	6.7	7.1	8.2	7.0	7.8	8.3	7.1	8.0
26	7.7	7.5	7.6	7.3	6.7	6.8	8.3	7.9	8.1	8.3	7.3	7.8
27	7.5	7.2	7.3	6.9	6.7	6.8	8.2	8.0	8.1	8.2	7.3	7.8
28	7.2	7.1	7.2	7.8	6.7	6.9	8.2	7.8	8.0	8.1	7.8	8.0
29	7.7	7.1	7.4	7.8	6.9	7.4	8.2	7.7	7.9	8.0	7.6	7.9
30	7.6	7.1	7.3	7.4	7.0	7.2	8.0	7.0	7.6	8.0	7.6	7.8
31	---	---	---	7.6	7.1	7.3	8.0	6.9	7.3	---	---	---
MONTH	8.1	6.6	7.2	8.0	6.6	7.1	8.3	6.7	7.2	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.7	24.2	24.5	20.5	19.1	19.6	13.7	12.5	13.0	6.0	5.6	5.8
2	25.4	24.4	24.7	20.6	19.6	20.1	12.8	12.1	12.5	6.5	6.0	6.2
3	26.0	24.5	25.0	20.2	19.6	19.8	12.5	11.9	12.2	7.6	6.1	6.5
4	25.4	24.6	24.9	20.6	19.5	19.8	12.6	11.4	12.0	7.6	6.2	6.7
5	25.6	24.6	25.0	19.7	18.6	19.2	12.1	11.0	11.6	8.5	6.5	7.5
6	24.6	23.5	24.1	18.6	17.7	18.0	12.2	11.9	12.0	9.0	8.2	8.6
7	23.5	22.7	23.1	18.1	16.9	17.5	13.5	11.8	12.5	10.1	7.4	9.0
8	22.9	21.9	22.4	17.5	16.8	17.2	15.6	13.3	13.9	11.6	9.4	10.2
9	24.3	22.0	22.7	16.8	15.2	15.9	14.6	13.7	14.0	11.9	10.7	11.1
10	23.5	22.4	22.8	15.2	14.3	14.7	15.2	14.0	14.6	11.5	10.8	11.1
11	22.7	21.7	22.2	15.3	13.8	14.4	14.8	13.3	14.2	12.3	10.1	10.9
12	22.3	21.0	21.5	15.4	14.8	15.1	13.3	12.1	12.7	12.6	10.2	11.0
13	22.3	21.5	21.8	15.3	14.2	14.8	12.8	12.1	12.4	12.5	10.7	11.5
14	21.9	21.2	21.6	14.2	13.0	13.6	12.1	10.7	11.2	13.7	12.2	12.9
15	22.1	20.5	21.3	13.0	12.2	12.6	10.7	8.9	9.8	12.6	11.2	11.9
16	21.4	19.4	20.3	12.4	11.9	12.2	9.3	8.0	8.7	11.2	9.8	10.5
17	20.3	18.8	19.3	12.2	11.4	11.7	9.0	7.8	8.4	9.8	8.0	9.0
18	19.9	18.6	19.3	13.2	11.7	12.6	9.5	8.6	9.0	8.0	6.0	6.9
19	21.1	19.3	20.2	13.1	12.2	12.7	10.1	9.2	9.6	6.8	5.2	6.0
20	21.1	20.7	20.9	13.3	12.6	12.9	9.4	6.7	7.9	6.8	4.6	5.6
21	20.8	20.2	20.5	13.9	13.0	13.4	7.2	6.2	6.7	5.7	5.0	5.4
22	20.2	19.2	19.7	14.6	13.2	13.8	7.4	6.5	6.9	6.4	4.4	5.1
23	19.4	18.4	18.9	14.8	14.0	14.5	8.4	7.0	7.6	5.5	4.0	5.0
24	18.5	17.4	17.7	15.4	14.6	14.9	8.4	7.7	8.2	4.0	3.1	3.5
25	17.4	17.1	17.2	15.5	14.4	15.2	7.7	6.9	7.4	4.0	3.1	3.5
26	17.6	16.7	17.2	14.4	13.2	13.7	6.9	5.5	6.5	4.6	3.4	3.8
27	17.4	16.5	16.9	13.2	12.6	12.8	5.6	4.8	5.1	4.7	3.9	4.2
28	17.9	17.0	17.4	13.5	12.7	13.1	5.1	4.0	4.4	4.0	3.2	3.5
29	17.6	17.0	17.2	13.1	12.4	12.7	5.6	4.4	5.1	3.3	2.1	2.7
30	18.6	17.3	17.9	12.7	12.1	12.4	5.6	5.1	5.4	3.6	2.7	3.2
31	19.8	18.4	18.9	---	---	---	6.0	4.9	5.5	3.9	3.3	3.6
MONTH	26.0	16.5	20.9	20.6	11.4	15.0	15.6	4.0	9.7	13.7	2.1	7.2
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	3.5	3.8	8.9	8.3	8.7	17.8	16.5	17.0	18.6	17.9	18.1
2	4.8	3.7	4.1	8.3	7.5	7.9	18.1	17.2	17.7	19.6	17.8	18.4
3	4.6	4.1	4.4	7.6	6.8	7.3	17.2	15.2	16.2	19.6	18.0	18.7
4	4.8	4.4	4.5	8.1	5.9	7.1	15.8	14.7	15.3	19.5	18.4	18.8
5	5.3	4.4	4.8	8.2	7.1	7.7	16.6	15.4	16.0	18.8	17.7	18.2
6	6.0	4.7	5.2	9.3	7.5	8.3	17.8	16.1	16.8	17.7	15.7	16.8
7	6.0	5.3	5.6	10.1	8.4	9.2	18.4	17.1	17.7	16.3	15.0	15.6
8	6.7	5.6	6.0	10.5	8.9	9.7	18.9	18.1	18.3	17.8	15.9	16.8
9	7.0	5.6	6.2	9.4	8.2	8.8	18.7	17.3	18.1	19.6	17.1	18.0
10	7.7	5.8	6.7	9.5	8.0	8.8	17.3	16.3	16.7	20.2	17.6	18.9
11	6.3	5.8	6.1	9.9	8.6	9.2	17.8	16.3	16.8	22.2	18.8	19.7
12	6.3	5.4	5.9	9.6	8.8	9.2	17.0	16.2	16.6	23.0	20.4	21.7
13	6.4	5.7	6.0	10.8	8.9	9.5	16.3	15.3	15.9	22.3	20.8	21.5
14	7.8	6.3	6.9	10.3	9.7	10	15.3	14.6	14.9	22.3	20.9	21.3
15	9.6	7.5	8.1	11.1	9.4	10.1	14.6	13.4	14.0	22.8	21.0	21.7
16	10.2	7.8	9.0	10.7	9.3	10.0	13.4	12.6	12.9	22.7	20.6	21.8
17	10.3	9.5	9.9	9.5	8.5	9.0	13.8	12.0	12.8	22.8	21.8	22.2
18	9.5	8.1	8.7	8.9	8.1	8.5	15.1	12.9	13.5	22.9	21.3	22.0
19	8.3	7.4	7.8	9.5	8.8	9.1	16.2	12.6	14.0	22.6	22.0	22.3
20	8.8	7.8	8.2	9.9	9.3	9.5	16.1	13.4	15.0	22.3	21.8	22.1
21	9.8	8.5	9.1	11.5	9.7	10.3	15.4	12.3	14.4	21.8	21.0	21.4
22	10.3	9.4	9.8	11.7	10.4	11.2	17.6	12.8	15.4	21.9	20.5	21.2
23	10.3	9.6	9.9	13.4	11.6	12.6	19.1	14.4	17.7	22.3	21.0	21.6
24	10.1	9.4	9.7	14.3	13.0	13.5	17.8	15.2	16.4	22.9	21.5	22.1
25	9.7	8.4	9.1	14.3	13.6	13.9	15.3	14.1	14.8	22.2	20.4	21.2
26	8.9	7.6	8.3	14.6	13.7	14.1	15.6	14.8	15.1	21.2	19.9	20.6
27	9.1	8.3	8.6	14.6	14.1	14.3	17.8	15.5	16.3	22.2	20.5	21.1
28	8.9	8.3	8.6	15.8	14.6	15.1	17.8	15.6	16.4	22.4	20.5	21.7
29	---	---	---	15.7	14.6	15.2	17.1	15.6	16.5	23.9	22.0	22.9
30	---	---	---	16.8	15.2	15.7	18.3	16.8	17.4	23.9	22.5	23.1
31	---	---	---	17.0	15.7	16.3	---	---	---	22.8	22.1	22.5
MONTH	10.3	3.5	7.2	17.0	5.9	10.6	19.1	12.0	15.9	23.9	15.0	20.5

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.3	21.4	21.9	29.0	26.4	27.3	29.9	28.4	28.9	29.8	28.4	29.0
2	22.3	21.0	21.5	29.2	27.0	27.7	30.7	28.5	29.5	30.6	29.0	29.8
3	22.8	21.7	22.0	29.1	27.4	28.0	30.8	28.3	29.3	30.8	28.7	29.4
4	22.3	21.7	22.0	29.8	27.6	28.5	31.2	28.7	29.6	28.8	27.9	28.4
5	23.5	21.6	22.1	30.1	28.1	28.9	31.4	29.4	30.1	27.9	27.0	27.4
6	25.9	21.5	22.2	31.1	28.1	29.3	30.6	29.3	29.9	27.0	26.2	26.6
7	25.9	21.6	22.6	31.0	28.7	29.5	30.0	28.2	29.4	26.4	25.7	26.1
8	24.1	21.4	22.5	29.5	27.9	28.6	29.5	28.7	29.0	26.6	25.6	26.0
9	27.4	22.8	25.5	31.5	28.6	29.5	29.5	28.5	28.9	26.4	25.4	25.9
10	28.2	26.7	27.2	31.1	29.0	29.7	30.7	28.5	29.2	26.1	25.1	25.6
11	27.5	26.7	27.1	30.2	29.2	29.6	30.8	29.3	29.7	---	---	---
12	28.6	26.5	27.4	30.5	28.3	29.2	31.2	28.5	29.7	---	---	---
13	28.3	26.9	27.5	29.2	27.9	28.5	32.0	30.0	30.7	---	---	---
14	28.8	26.3	27.3	28.2	27.2	27.8	31.3	30.2	30.8	---	---	---
15	29.5	26.1	27.4	29.4	27.5	28.2	32.4	30.2	31.0	---	---	---
16	30.7	27.6	28.9	30.9	27.5	28.8	31.6	30.1	31.0	---	---	---
17	29.2	27.5	27.9	29.6	27.7	28.4	31.4	29.6	30.3	---	---	---
18	28.1	26.6	27.3	30.0	27.9	28.8	30.7	29.3	29.9	---	---	---
19	27.4	25.9	26.4	30.6	28.1	29.0	32.0	29.2	30.3	---	---	---
20	26.0	24.5	25.3	31.2	28.0	29.3	33.5	30.1	31.0	29.1	26.5	27.5
21	26.1	24.0	25.0	31.7	28.4	29.6	32.5	30.7	31.4	27.9	27.0	27.4
22	26.7	24.3	25.4	30.9	27.9	29.1	32.6	30.5	31.2	29.9	26.6	27.6
23	26.2	25.0	25.6	31.4	29.2	30.0	31.6	30.3	31.0	30.7	26.8	28.0
24	27.1	25.3	26.1	30.6	29.8	30.2	30.3	28.7	29.5	29.2	26.6	27.4
25	26.5	26.0	26.2	31.9	29.0	30.0	28.7	27.7	28.2	27.9	26.7	27.2
26	27.0	25.8	26.2	33.1	29.4	30.7	28.2	27.1	27.6	27.7	26.3	27.1
27	28.0	26.4	27.0	31.8	30.2	31.1	27.7	27.0	27.3	27.4	26.4	26.9
28	27.7	27.1	27.4	32.8	30.0	30.9	28.3	26.8	27.5	27.2	25.9	26.6
29	27.3	26.5	26.8	30.8	29.8	30.2	28.8	27.5	28.1	28.4	25.4	26.6
30	28.3	26.3	26.9	30.8	29.7	30.1	29.7	28.0	28.6	26.9	25.3	26.0
31	---	---	---	30.0	28.7	29.4	29.8	28.4	29.0	---	---	---
MONTH	30.7	21.0	25.5	33.1	26.4	29.2	33.5	26.8	29.6	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS., BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.9	24.2	24.5	20.0	18.7	19.0	13.8	13.0	13.6	6.6	6.4	6.5
2	24.6	24.4	24.5	19.7	19.2	19.4	13.2	12.4	12.9	6.9	6.5	6.7
3	25.1	24.4	24.7	20.0	18.9	19.4	13.3	12.2	12.7	7.2	6.7	6.9
4	25.0	24.6	24.7	19.8	19.5	19.6	13.2	12.3	12.7	7.3	6.9	7.1
5	25.1	24.5	24.9	19.7	18.8	19.1	13.2	12.1	12.9	7.6	6.6	6.7
6	24.5	23.7	24.0	19.0	18.0	18.5	13.2	12.8	13.1	6.9	6.6	6.7
7	23.7	22.6	23.0	18.6	17.9	18.4	13.5	12.9	13.1	9.5	6.8	7.5
8	22.8	21.9	22.3	18.5	16.7	17.6	13.7	13.4	13.5	8.8	7.7	8.0
9	22.5	21.9	22.2	16.7	15.2	15.9	13.7	13.5	13.6	10.7	8.1	9.3
10	22.9	22.2	22.5	15.2	14.4	14.8	15.0	13.6	14.4	9.8	8.9	9.2
11	22.7	21.6	22.1	14.9	13.9	14.5	14.8	13.7	14.3	9.8	9.1	9.4
12	22.6	21.2	21.9	14.9	14.6	14.8	13.7	12.7	13.3	9.8	9.6	9.7
13	22.4	22.0	22.2	15.0	14.2	14.8	13.6	12.4	13.1	11.3	9.7	10.1
14	22.3	22.1	22.2	14.2	13.0	13.6	12.8	10.8	11.6	13.8	10.9	12.8
15	22.2	22.0	22.1	13.3	12.2	12.7	10.8	9.4	10	12.7	11.3	12.0
16	22.1	21.4	21.8	13.6	12.6	13.1	10.2	8.5	9.4	11.3	10.0	10.6
17	21.6	20.1	21.3	13.4	12.9	13.2	11.3	9.9	10.7	10.1	8.2	9.2
18	21.2	20.1	20.8	13.5	13.2	13.4	10.8	10.2	10.5	8.2	6.4	7.4
19	21.1	20.1	20.8	13.5	13.1	13.4	10.8	10.6	10.8	7.4	6.3	7.0
20	21.1	20.7	21.0	13.6	13.2	13.4	10.7	7.6	8.2	7.6	7.3	7.5
21	21.2	20.8	21.0	13.6	13.2	13.5	8.0	6.9	7.5	7.6	6.8	7.3
22	20.9	19.6	20.4	13.7	13.4	13.6	8.3	7.5	7.9	7.5	6.7	7.2
23	20.8	18.5	19.6	13.8	13.6	13.7	8.6	7.4	8.1	6.9	4.2	5.3
24	20.7	17.9	20.0	14.3	13.7	14.0	8.6	7.8	8.3	4.2	3.3	3.6
25	20.5	17.1	18.9	15.5	14.2	14.8	7.8	7.1	7.5	4.0	3.4	3.9
26	18.4	16.7	17.5	14.5	13.4	13.8	7.2	5.8	6.6	4.4	3.4	4.0
27	19.0	17.8	18.7	13.8	12.8	13.1	6.0	5.2	5.6	4.7	4.2	4.3
28	19.0	17.7	18.6	13.7	13.2	13.5	6.2	4.6	5.7	4.7	3.5	4.1
29	18.6	17.4	18.1	13.6	12.6	12.9	6.0	5.5	5.7	3.7	2.8	3.3
30	18.7	17.5	18.2	13.8	13.1	13.5	6.2	5.9	6.1	3.8	3.3	3.6
31	19.8	18.4	18.7	---	---	---	6.4	6.2	6.3	4.2	3.5	3.8
MONTH	25.1	16.7	21.4	20.0	12.2	15.2	15.0	4.6	10.3	13.8	2.8	7.1
		FEBRUARY			MARCH			APRIL			MAY	
1	4.4	3.7	4.1	9.0	8.4	8.8	17.0	16.2	16.7	18.1	16.6	17.6
2	4.4	4.2	4.2	8.4	7.6	8.0	18.1	16.8	17.7	17.6	16.3	16.8
3	4.6	4.2	4.4	7.8	7.2	7.5	17.2	15.4	16.2	18.5	16.9	17.5
4	4.9	4.5	4.7	7.8	7.2	7.6	15.8	14.6	15.3	19.3	17.9	18.6
5	5.3	4.5	4.9	8.2	7.5	7.9	16.6	15.5	15.9	18.9	17.7	18.2
6	5.8	5.1	5.3	8.2	7.9	8.1	17.1	16.2	16.4	17.7	15.7	16.8
7	5.8	5.4	5.5	9.5	8.0	8.3	18.4	15.9	17.2	15.7	15.0	15.3
8	5.8	5.5	5.7	10.6	8.4	9.6	18.4	17.6	18.1	16.8	15.5	15.9
9	6.0	5.8	5.9	9.4	8.2	8.7	18.6	17.4	18.1	16.6	16.0	16.3
10	7.1	5.9	6.4	9.0	8.1	8.5	17.4	16.1	16.5	19.6	16.5	17.3
11	6.5	5.9	6.2	9.8	8.6	8.9	16.8	16.2	16.4	19.5	18.3	18.8
12	6.2	5.8	5.9	9.6	8.7	9.3	17.2	16.3	16.6	20.3	17.7	18.5
13	6.3	6.0	6.1	10.0	9.4	9.6	16.3	15.3	15.9	22.0	18.1	20.8
14	6.8	6.2	6.3	10.0	9.8	9.9	15.3	14.6	15.0	21.3	18.9	19.9
15	6.8	6.5	6.6	10.2	9.5	9.8	14.6	13.4	14.0	20.1	18.7	19.3
16	6.8	6.3	6.5	9.9	9.3	9.7	13.4	12.7	12.9	20.3	18.8	19.2
17	7.4	6.5	6.7	9.5	8.5	9.0	13.0	12.0	12.6	22.4	19.4	21.5
18	8.6	6.6	7.3	9.1	8.1	8.5	13.7	12.6	13.1	22.4	21.3	21.6
19	8.2	7.5	7.8	9.4	8.8	9.0	13.9	12.6	13.2	22.3	21.1	21.9
20	8.8	7.7	8.0	9.4	9.2	9.3	13.6	12.8	13.1	22.2	21.0	21.6
21	9.3	7.9	8.3	9.8	9.3	9.4	12.8	12.0	12.2	21.8	21.0	21.4
22	10.0	8.3	9.3	11.7	9.4	10.5	14.1	12.2	12.6	21.3	21.0	21.1
23	10.3	9.1	9.8	13.3	9.9	11.4	17.2	13.2	15.3	21.1	20.9	21.0
24	10.0	9.5	9.7	14.0	11.2	12.0	16.0	14.4	15.2	22.2	20.9	21.4
25	9.8	8.6	9.1	14.2	13.3	13.7	15.2	14.3	14.8	21.8	20.4	21.1
26	9.0	7.8	8.4	14.5	13.6	13.8	15.5	14.8	15.0	20.4	19.8	20.1
27	9.0	8.4	8.7	14.3	14.0	14.2	15.7	14.3	15.1	20.8	20.0	20.4
28	8.9	8.4	8.7	15.8	14.1	14.9	15.9	14.6	15.0	20.9	20.4	20.6
29	---	---	---	15.6	14.6	15.1	15.5	14.9	15.0	21.1	20.6	20.7
30	---	---	---	16.1	15.2	15.6	18.2	15.1	16.8	21.0	20.8	20.8
31	---	---	---	16.6	15.7	16.0	---	---	---	22.7	20.8	21.4
MONTH	10.3	3.7	6.8	16.6	7.2	10.4	18.6	12.0	15.3	22.7	15.0	19.5

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS., BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.2	21.4	21.9	26.2	25.9	26.0	29.4	28.6	29.2	28.7	28.3	28.5
2	21.8	21.0	21.2	26.1	25.8	25.9	30.2	28.6	29.1	28.6	28.3	28.4
3	21.4	21.1	21.2	28.3	25.9	27.0	29.7	28.9	29.2	28.6	28.4	28.5
4	21.3	21.1	21.2	29.4	27.1	28.0	29.0	28.8	28.9	28.8	27.9	28.5
5	21.5	21.2	21.2	29.0	28.4	28.7	29.2	28.7	28.9	27.9	26.9	27.3
6	21.6	21.1	21.2	28.6	27.9	28.2	29.0	28.5	28.7	26.9	26.3	26.6
7	21.3	21.0	21.1	28.1	27.6	27.8	29.6	28.4	28.9	26.5	25.7	26.1
8	21.4	21.1	21.1	28.7	27.8	28.2	29.7	29.0	29.2	26.2	25.6	25.8
9	22.4	21.1	21.5	28.6	27.8	28.1	29.1	28.5	28.7	26.4	25.4	26.0
10	26.2	21.3	24.0	28.4	28.0	28.2	28.7	28.5	28.6	26.1	25.0	25.6
11	27.0	22.9	25.5	28.5	27.9	28.1	28.7	28.6	28.6	---	---	---
12	26.9	26.1	26.5	28.2	27.9	28.0	28.6	28.4	28.5	---	---	---
13	26.6	24.7	25.7	29.0	28.0	28.4	28.6	28.4	28.4	---	---	---
14	24.8	22.0	22.7	28.0	28.0	28.0	28.5	28.3	28.4	---	---	---
15	22.2	21.9	22.0	28.1	27.8	27.9	28.8	28.4	28.5	---	---	---
16	22.2	21.9	22.0	28.1	27.8	28.0	28.9	28.7	28.8	---	---	---
17	22.6	22.2	22.3	28.0	27.8	27.9	28.9	28.7	28.8	---	---	---
18	23.7	22.4	22.8	28.1	27.8	28.0	29.0	28.8	28.9	---	---	---
19	26.5	22.9	25.4	28.4	28.1	28.3	29.2	28.8	28.9	---	---	---
20	25.7	24.8	25.2	28.4	28.2	28.3	29.2	28.7	28.8	26.9	25.2	25.9
21	24.9	24.0	24.5	28.3	28.1	28.2	28.9	28.6	28.7	27.3	25.5	26.4
22	24.4	24.0	24.2	28.4	28.1	28.2	29.0	28.6	28.8	27.8	26.5	27.1
23	26.1	24.1	24.8	28.6	28.2	28.2	29.2	28.8	28.9	27.6	26.4	27.1
24	26.9	25.5	26.0	29.7	28.2	28.9	29.0	28.9	29.0	27.2	26.1	26.5
25	26.5	26.0	26.2	29.7	28.1	28.8	28.9	27.8	28.3	27.9	26.6	27.2
26	26.2	25.8	26.0	29.1	28.2	28.6	28.0	27.1	27.5	27.5	26.6	27.0
27	26.0	25.8	25.8	29.2	28.3	28.7	27.7	27.1	27.4	27.2	26.5	26.8
28	26.3	25.7	25.9	30.7	28.2	28.9	28.1	26.9	27.4	26.9	26.0	26.5
29	26.9	25.9	26.6	30.7	29.3	30.0	28.5	27.5	27.9	26.5	25.8	26.1
30	26.8	26.1	26.4	30.0	29.4	29.7	28.3	27.7	28.0	26.5	25.7	25.9
31	---	---	---	29.7	29.4	29.6	29.6	27.9	28.6	---	---	---
MONTH	27.0	21.0	23.7	30.7	25.8	28.2	30.2	26.9	28.6	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	6.9	7.2	12.0	5.3	8.1	11.9	9.1	10.2	15.4	10.1	13.6
2	8.4	6.8	7.3	10.0	5.8	8.3	11.9	9.5	10.5	17.0	8.3	10.3
3	8.6	6.5	7.3	7.5	4.5	6.0	11.4	9.9	10.7	18.6	12.0	15.7
4	8.3	5.7	6.8	8.2	6.0	7.0	12.1	10.2	11.1	15.6	6.5	10.6
5	8.3	7.0	7.7	8.6	5.9	7.2	11.7	10.6	11.2	12.1	6.0	7.7
6	7.6	6.2	6.7	9.8	8.0	8.6	11.7	5.2	9.3	8.9	7.8	8.2
7	8.7	6.1	7.2	8.7	7.5	8.3	11.3	5.4	9.4	10.0	8.5	9.3
8	8.6	7.3	7.9	8.4	6.8	7.7	15.0	6.0	9.0	10.3	9.3	9.8
9	10.0	7.2	8.7	8.8	7.3	8.3	12.3	6.6	8.9	10.5	9.7	10.0
10	9.6	8.7	9.1	9.4	8.5	9.0	8.0	4.5	6.7	10.7	9.5	10.2
11	8.8	8.1	8.4	9.9	9.0	9.3	9.8	7.2	8.7	10.5	8.7	10
12	9.5	7.8	8.4	10.3	9.0	9.5	9.8	8.5	9.2	10.9	8.3	9.5
13	8.9	5.9	8.0	9.7	8.5	8.8	12.1	8.4	10.0	9.7	6.6	8.6
14	8.7	7.2	7.9	9.6	8.6	9.1	11.9	9.8	10.3	8.9	7.7	8.4
15	8.2	3.9	6.7	10.4	9.4	9.9	11.0	9.7	10.4	9.3	8.3	8.8
16	8.9	5.8	7.1	10.9	10.1	10.4	15.0	10.3	11.5	9.6	9.0	9.2
17	9.9	6.6	8.0	11.0	8.3	10.2	15.8	10.2	12.9	10.4	9.3	9.8
18	10.6	7.0	9.0	11.4	7.2	8.6	15.7	14.0	14.8	11.2	10.1	10.7
19	9.7	5.6	8.3	10.5	7.2	8.5	16.0	8.8	12.4	11.4	9.8	10.8
20	9.0	6.2	8.0	10.5	6.5	8.7	10.8	8.7	10.1	13.4	9.8	11.2
21	8.3	6.4	7.4	11.1	7.3	9.0	11.8	10.1	10.8	12.1	11.4	11.8
22	7.8	6.4	7.0	12.7	7.2	10.3	13.0	10.7	11.6	12.1	10.5	11.5
23	8.5	7.0	7.6	12.1	10.1	11.5	12.8	11.1	11.8	11.7	10.6	11.0
24	8.8	7.5	8.0	11.8	9.8	10.9	11.2	10.4	10.9	12.2	11.3	11.8
25	9.7	8.0	8.7	10.4	6.5	8.3	11.5	10.7	11.1	12.7	11.8	12.2
26	9.9	8.2	8.7	10.4	8.1	9.3	11.3	10.9	11.1	12.9	12.3	12.6
27	10.8	9.1	9.8	11.8	9.6	10.3	12.4	11.2	11.7	12.9	12.4	12.7
28	10.7	9.7	10.2	11.0	9.4	10.2	12.8	11.5	12.2	13.2	12.5	12.8
29	10.8	9.5	10	10.7	9.8	10.2	12.9	11.4	12.3	13.9	12.7	13.3
30	11.6	7.4	9.7	13.0	10.2	11.2	13.9	12.0	13.1	13.6	12.9	13.2
31	10.3	5.7	7.7	---	---	---	15.2	12.8	13.8	13.5	12.9	13.2
MONTH	11.6	3.9	8.1	13.0	4.5	9.1	16.0	4.5	10.9	18.6	6.0	10.9
		FEBRUARY			MARCH			APRIL			MAY	
1	13.7	13.0	13.4	10.9	10.1	10.5	9.9	8.9	9.4	10.0	8.4	8.8
2	14.1	12.9	13.5	10.8	10.2	10.5	9.2	8.2	8.5	11.5	7.9	9.7
3	14.4	13.2	13.8	11.6	10.3	11.0	9.0	8.2	8.6	10.7	8.6	9.5
4	13.7	13.2	13.4	13.5	11.1	11.8	9.6	8.5	9.0	9.9	8.8	9.5
5	13.7	13.0	13.3	12.4	10.7	11.7	10.6	9.1	9.8	9.2	7.8	8.3
6	14.3	13.1	13.7	12.5	11.1	11.7	10.7	9.5	10.1	8.4	7.6	8.0
7	14.4	13.6	13.9	12.3	9.9	11.7	9.9	8.8	9.4	9.8	8.0	8.9
8	15.1	13.5	14.3	10.6	7.8	9.6	9.2	8.6	8.9	11.1	8.4	10.0
9	14.8	13.7	14.5	11.9	9.1	10.0	9.3	8.6	8.9	12.6	9.6	11.0
10	14.1	11.8	13.1	13.0	10.4	11.7	10.2	8.9	9.3	12.5	9.6	11.2
11	12.2	11.7	11.9	13.8	8.8	11.8	10.8	9.1	9.7	12.5	9.8	10.9
12	12.7	11.6	12.2	11.5	9.0	10.7	10.4	9.8	10.1	12.3	9.2	10.6
13	13.6	12.3	12.7	13.4	10.4	11.2	10.0	9.4	9.7	10.0	8.4	9.3
14	13.9	12.3	12.9	11.9	10.8	11.4	10.2	9.3	9.8	9.1	7.7	8.4
15	13.7	12.2	12.7	13.4	11.0	12.1	10.4	9.4	9.9	9.3	6.6	8.2
16	13.7	12.6	13.2	12.5	11.2	12.0	10.8	9.9	10.4	10.2	5.4	8.2
17	12.9	12.1	12.5	11.2	10.3	10.8	11.3	10.2	10.7	9.5	7.7	8.6
18	12.1	11.0	11.6	11.3	10.3	10.8	11.4	10.0	10.6	11.2	7.6	9.4
19	12.3	10.9	11.5	11.5	10.9	11.3	11.9	9.4	10.5	10.7	9.5	9.9
20	12.8	11.8	12.3	11.8	10.6	11.2	10.0	7.3	9.0	9.9	7.7	8.7
21	12.5	11.4	11.9	11.7	10.2	11.4	8.8	5.9	7.7	9.6	7.5	8.4
22	12.3	11.1	11.7	12.0	11.2	11.6	9.0	6.4	7.4	10.4	6.8	9.3
23	12.1	11.2	11.8	11.2	9.9	10.4	8.5	6.9	8.1	10.1	8.5	9.3
24	11.3	10.5	11.0	11.0	9.5	10.1	9.4	7.9	8.7	10.3	8.4	9.2
25	10.9	10.2	10.5	11.2	10.1	10.6	10.5	8.5	9.5	8.5	7.3	7.8
26	11.8	10.1	11.0	11.1	10.2	10.5	11.5	9.3	10.3	9.0	6.3	8.0
27	11.9	10.8	11.4	10.5	9.8	10.1	10.9	9.0	10	9.4	7.0	8.3
28	11.2	10.2	10.6	9.8	8.5	9.3	11.9	9.5	10.4	8.8	7.0	8.0
29	---	---	---	10.1	8.6	9.3	11.4	6.6	9.5	10.5	8.0	9.3
30	---	---	---	11.0	9.3	9.9	10.4	9.1	9.6	9.5	4.1	7.6
31	---	---	---	10.4	9.5	10	---	---	---	8.9	7.8	8.3
MONTH	15.1	10.1	12.5	13.8	7.8	10.9	11.9	5.9	9.4	12.6	4.1	9.1

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	7.3	7.7	8.2	5.8	7.0	9.4	5.7	7.1	8.7	5.0	6.4
2	9.0	7.1	7.8	8.6	4.0	6.3	10.4	6.1	7.9	9.6	5.9	7.8
3	9.7	7.0	8.0	7.7	5.1	6.3	11.1	8.2	9.5	8.5	6.5	7.5
4	7.4	5.5	6.6	7.9	5.9	7.0	11.1	5.2	8.8	6.7	6.0	6.3
5	9.8	2.5	5.7	8.1	6.1	7.1	11.2	6.2	8.6	6.7	5.5	6.1
6	8.9	1.6	2.9	8.5	6.2	7.2	8.5	5.1	7.1	6.9	6.0	6.4
7	8.2	0.1	2.4	9.5	5.6	7.6	7.8	3.9	6.7	7.5	6.1	6.7
8	3.4	0.0	1.1	8.3	4.9	6.2	7.4	6.0	6.8	8.0	6.4	7.1
9	9.0	0.1	4.7	12.4	6.4	8.4	8.4	4.9	6.5	7.8	6.5	7.1
10	9.2	7.1	7.8	10.4	6.3	8.8	10.5	7.1	8.3	7.7	6.6	7.1
11	8.2	6.8	7.6	11.3	5.9	8.3	9.1	4.2	7.4	---	---	---
12	8.6	6.1	7.3	9.4	1.9	5.5	9.4	3.0	6.2	---	---	---
13	8.4	4.7	7.2	5.8	0.6	3.3	8.9	4.5	7.2	---	---	---
14	8.1	3.9	6.0	8.4	3.8	5.6	9.4	7.0	7.7	---	---	---
15	8.3	4.6	6.2	10.8	5.8	7.8	8.8	6.5	7.7	---	---	---
16	8.4	5.5	7.1	9.5	5.0	7.5	8.6	0.5	6.6	---	---	---
17	7.9	6.3	7.0	8.6	4.0	6.8	7.5	5.3	6.2	---	---	---
18	8.0	6.1	7.3	8.3	3.6	6.3	7.5	5.8	6.7	---	---	---
19	7.5	6.1	6.9	10.5	1.6	5.6	7.8	5.8	6.7	---	---	---
20	7.5	6.8	7.1	8.2	2.7	5.5	9.2	5.9	7.0	10.8	7.6	9.2
21	9.0	6.8	7.8	11.0	2.4	6.3	8.6	6.6	7.2	8.9	7.5	8.2
22	9.4	7.2	8.0	9.0	2.4	5.3	9.0	4.7	6.8	9.8	7.2	8.4
23	8.3	7.2	7.8	9.1	5.7	7.1	8.4	6.5	7.3	10.4	7.1	8.5
24	8.2	7.0	7.6	8.7	6.6	7.5	8.4	6.1	7.0	10.6	7.1	8.3
25	7.6	7.0	7.3	10.5	7.0	8.1	7.0	5.8	6.3	9.2	6.8	7.7
26	8.6	6.8	7.4	14.7	6.4	8.6	7.8	5.7	6.6	8.0	6.5	7.4
27	8.9	7.4	7.9	12.4	4.3	8.2	6.7	5.7	6.4	8.2	5.3	6.8
28	8.6	7.0	7.9	9.2	2.8	6.6	6.9	5.1	6.1	8.5	6.4	7.4
29	8.2	7.1	7.4	8.0	4.8	6.0	6.9	4.8	6.2	9.9	6.4	7.8
30	10.9	6.7	7.9	7.3	5.5	6.5	8.0	5.8	6.6	7.9	6.2	6.8
31	---	---	---	7.7	6.3	6.8	6.5	5.0	5.8	---	---	---
MONTH	10.9	0.0	6.7	14.7	0.6	6.8	11.2	0.5	7.1	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	6.2	6.6	8.2	0.0	2.2	9.9	4.5	7.0	9.0	8.2	8.4
2	6.7	5.3	6.0	6.0	0.0	1.8	9.6	7.0	8.5	8.3	6.7	7.4
3	6.7	4.7	5.6	7.2	0.0	2.1	10.9	6.2	8.8	7.8	5.2	7.1
4	6.5	2.9	5.3	7.0	4.8	6.2	10.3	5.5	8.3	6.5	4.8	5.7
5	7.0	3.2	5.7	7.6	5.5	6.6	9.8	5.0	6.7	8.0	5.9	7.2
6	6.8	3.9	5.8	7.6	3.5	6.1	7.0	4.3	5.5	8.2	7.5	7.9
7	8.5	4.9	6.5	8.0	3.3	4.4	7.7	4.2	5.4	9.4	7.3	8.0
8	8.8	5.5	7.5	8.3	2.7	6.2	7.7	4.4	5.7	8.0	6.4	7.0
9	8.3	6.2	7.3	9.0	7.2	8.2	5.8	5.0	5.4	9.7	5.3	7.5
10	9.2	7.1	8.2	9.2	8.2	8.8	7.0	4.0	5.6	7.8	5.1	6.0
11	9.0	6.4	8.3	9.2	8.2	8.7	7.2	4.3	5.9	7.6	5.6	6.4
12	8.1	1.0	5.2	8.4	7.2	7.8	8.9	3.9	7.1	6.3	4.5	5.3
13	6.9	2.0	3.1	9.2	7.2	8.6	10.5	3.6	6.4	7.2	4.3	5.6
14	5.5	1.2	2.1	9.8	8.7	9.2	10.4	6.9	9.0	8.9	6.1	8.5
15	3.0	1.3	2.0	10.2	9.2	9.7	10.6	9.0	9.7	9.3	8.6	9.0
16	4.4	1.5	2.5	9.9	7.4	8.9	10.2	8.5	9.5	9.4	9.1	9.3
17	4.8	1.5	2.3	9.0	7.4	8.4	8.7	6.1	7.2	10.3	9.0	9.6
18	4.5	1.0	2.3	7.8	7.1	7.4	7.4	5.2	6.5	10.8	9.2	10.1
19	4.2	0.5	1.9	7.8	6.8	7.2	5.2	4.4	4.8	10.8	9.4	9.9
20	2.6	0.0	0.6	7.8	6.0	6.9	10.3	4.8	9.3	9.4	9.0	9.2
21	1.6	0.0	0.2	7.8	5.6	6.2	11.1	8.1	9.5	9.2	8.1	8.6
22	7.9	0.0	3.6	6.1	5.0	5.5	12.0	7.3	9.0	8.5	7.4	8.1
23	8.5	0.0	4.7	5.7	4.2	4.8	12.0	4.9	9.7	11.1	7.9	10.3
24	8.0	0.0	1.8	5.5	2.7	4.0	10.7	7.2	9.9	11.7	11.1	11.3
25	8.9	0.3	4.3	8.9	2.2	5.4	11.0	10.3	10.6	11.7	10.8	11.2
26	8.8	3.8	7.7	9.3	7.6	8.6	10.8	10.5	10.7	11.6	10.1	10.9
27	7.8	0.1	3.3	11.3	6.2	9.9	11.7	10.3	11.0	12.3	10.1	11.5
28	11.2	0.5	2.7	10.4	7.0	8.0	11.5	9.6	10.3	12.3	11.0	11.9
29	11.8	1.1	5.3	10.2	5.8	9.2	10.8	9.8	10.4	12.9	11.9	12.4
30	8.5	1.9	4.4	10.4	5.3	6.7	10.1	9.4	9.7	12.7	11.3	12.0
31	7.0	1.8	2.9	---	---	---	9.5	8.9	9.2	12.6	12.0	12.5
MONTH	11.8	0.0	4.4	11.3	0.0	6.8	12.0	3.6	8.1	12.9	4.3	8.9
		FEBRUARY			MARCH			APRIL			MAY	
1	12.9	11.8	12.5	10.9	9.9	10.4	11.3	8.6	9.9	9.3	2.4	7.1
2	12.9	11.6	12.4	10.6	10.2	10.4	9.9	8.5	9.0	5.9	0.6	2.5
3	13.0	11.3	12.4	11.5	10.2	10.7	9.5	8.7	9.1	9.6	1.1	4.2
4	12.8	12.4	12.6	11.3	9.8	10.7	9.9	8.5	9.1	10.4	5.4	8.7
5	12.7	12.1	12.4	11.8	7.0	9.1	10.4	8.4	9.4	9.8	8.4	9.0
6	13.3	12.5	12.7	11.4	7.7	9.0	10.2	7.5	9.1	9.0	8.2	8.6
7	13.3	11.7	12.8	9.9	7.4	8.0	9.1	4.9	7.7	9.4	7.8	8.8
8	12.9	11.7	12.3	9.9	6.9	8.9	---	---	---	9.8	7.0	7.6
9	13.3	11.5	12.2	9.3	8.0	8.7	---	---	---	8.8	4.7	6.1
10	13.3	10.2	11.8	12.3	7.8	9.6	---	---	---	10.7	4.2	6.0
11	11.6	10.0	11.2	10.9	6.9	8.1	---	---	---	10.7	6.1	9.0
12	11.7	9.7	10.3	11.7	9.0	10.8	---	---	---	10.3	1.6	5.9
13	11.9	8.5	9.3	11.8	10.3	11.0	---	---	---	10.1	3.2	8.3
14	10.8	7.7	8.8	12.0	10.1	11.4	---	---	---	9.3	1.0	4.5
15	9.5	5.9	7.9	12.8	10.5	11.3	---	---	---	4.1	0.8	1.9
16	9.4	6.6	7.5	12.5	10.6	11.4	---	---	---	4.5	0.5	1.2
17	7.9	6.6	7.2	11.6	10.6	11.3	---	---	---	9.6	0.9	7.0
18	11.4	7.4	8.8	11.9	10.8	11.4	---	---	---	10.8	6.5	8.3
19	11.1	7.6	10.2	11.9	10.4	11.4	---	---	---	9.3	2.3	7.0
20	12.2	6.8	9.8	11.6	10.2	11.0	7.3	5.3	6.4	8.5	1.9	4.8
21	12.1	5.4	8.2	12.2	9.1	10.1	7.0	6.0	6.6	9.2	3.0	8.0
22	12.3	5.6	10.5	12.8	8.9	10.7	7.4	5.8	6.4	8.5	4.9	6.7
23	12.2	7.4	11.0	12.4	7.6	9.2	8.1	5.0	6.8	5.2	2.2	3.6
24	11.4	10.5	11.0	11.7	6.7	8.7	9.3	5.3	7.2	8.7	1.4	4.9
25	10.7	9.5	10.3	12.2	10.7	11.5	10.2	6.3	8.8	8.1	2.1	7.1
26	10.8	7.4	9.7	12.2	10.4	11.2	11.3	8.8	10	7.7	4.5	6.2
27	11.4	7.3	10.2	11.6	9.9	10.9	10.4	2.7	6.7	8.0	2.0	4.2
28	11.2	10.2	10.6	11.0	9.4	10.1	10.6	3.0	5.0	3.4	0.8	1.5
29	---	---	---	11.5	9.5	10.3	6.3	1.5	3.2	3.0	0.3	0.8
30	---	---	---	11.4	9.3	10.5	10.4	1.3	6.0	1.0	0.2	0.4
31	---	---	---	11.3	10.1	10.8	---	---	---	8.4	0.1	2.6
MONTH	13.3	5.4	10.6	12.8	6.7	10.3	---	---	---	10.8	0.1	5.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	5.6	7.2	2.7	0.1	0.9	6.3	0.7	2.3	5.7	3.8	4.9
2	8.1	6.1	7.2	0.3	0.0	0.1	7.4	2.0	4.5	4.0	0.6	2.4
3	6.4	4.2	4.9	6.9	0.0	2.9	6.3	0.5	3.0	2.0	0.0	0.2
4	4.3	2.6	3.5	7.3	1.1	5.4	0.5	0.0	0.3	6.6	0.0	3.6
5	4.1	1.3	2.4	6.9	3.8	5.3	0.1	0.0	0.0	6.7	5.5	6.2
6	3.2	0.4	0.9	5.2	2.8	3.9	0.1	0.0	0.0	7.0	5.7	6.4
7	0.8	0.0	0.2	2.8	0.9	1.5	3.8	0.0	0.6	7.6	5.9	6.6
8	0.2	0.0	0.1	5.8	0.6	3.8	5.4	2.2	3.5	7.0	5.9	6.5
9	0.1	0.0	0.1	6.1	0.3	2.2	4.5	0.1	2.3	7.2	4.3	5.6
10	4.9	0.0	2.3	2.0	0.0	0.9	1.7	0.0	0.4	7.1	6.2	6.7
11	6.7	0.1	3.7	0.9	0.0	0.1	0.6	0.0	0.1	---	---	---
12	6.6	3.1	5.0	0.1	0.0	0.0	0.1	0.0	0.0	---	---	---
13	4.2	0.1	2.3	4.9	0.0	1.9	0.1	0.0	0.0	---	---	---
14	0.2	0.0	0.1	3.2	0.2	1.5	0.1	0.0	0.0	---	---	---
15	0.4	0.0	0.1	4.0	0.1	1.3	0.0	0.0	0.0	---	---	---
16	0.2	0.0	0.1	3.3	0.2	1.4	0.0	0.0	0.0	---	---	---
17	0.2	0.0	0.1	1.2	0.0	0.3	0.0	0.0	0.0	---	---	---
18	0.1	0.0	0.1	0.1	0.0	0.1	0.3	0.0	0.1	---	---	---
19	7.2	0.0	4.4	0.1	0.0	0.1	0.1	0.0	0.1	---	---	---
20	7.2	5.2	6.5	0.5	0.0	0.1	0.1	0.0	0.1	7.3	1.2	3.5
21	7.0	2.0	5.7	0.2	0.0	0.0	0.1	0.0	0.1	7.9	1.0	4.2
22	4.3	0.4	1.6	0.1	0.0	0.0	0.1	0.0	0.1	8.6	6.2	7.4
23	7.7	1.3	4.2	1.0	0.0	0.1	0.2	0.0	0.1	7.4	2.1	5.3
24	7.6	6.0	6.7	6.5	0.0	3.1	0.1	0.0	0.1	5.8	0.8	2.6
25	7.1	5.9	6.8	6.6	0.0	1.4	6.9	0.0	4.4	8.3	2.0	6.7
26	6.8	5.6	6.3	3.2	0.0	0.1	7.4	5.2	6.4	7.3	1.6	5.0
27	5.6	3.5	4.7	0.3	0.0	0.1	6.9	5.9	6.5	7.5	2.0	5.6
28	3.6	1.6	2.8	5.4	0.1	0.6	7.2	5.1	6.1	7.8	5.9	6.6
29	6.6	1.6	3.9	5.8	0.9	4.1	7.2	4.9	6.1	6.7	5.0	5.9
30	5.9	2.2	3.9	4.0	0.4	1.9	6.5	1.1	4.5	7.1	4.5	5.9
31	---	---	---	5.1	0.6	2.2	6.2	0.1	2.5	---	---	---
MONTH	8.1	0.0	3.3	7.3	0.0	1.5	7.4	0.0	1.7	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	91	83	87	134	57	88	113	88	97	124	81	109
2	103	82	88	111	64	92	113	89	99	138	67	83
3	106	79	88	83	49	66	106	92	100	151	97	128
4	101	69	82	92	66	77	114	95	103	127	54	87
5	102	84	93	94	64	78	109	98	103	104	49	65
6	91	73	80	105	84	91	109	48	86	77	66	70
7	102	71	85	91	78	88	107	52	88	89	72	81
8	100	84	92	88	71	81	147	58	88	94	84	87
9	120	83	101	89	75	84	121	64	87	97	88	91
10	113	101	106	93	84	89	78	44	66	97	86	92
11	102	92	97	98	87	92	96	71	85	98	78	90
12	110	88	95	103	89	95	93	81	87	102	74	87
13	102	68	91	97	84	87	114	79	94	89	60	79
14	99	82	90	93	83	88	109	88	94	84	73	80
15	92	45	76	97	89	93	97	86	92	85	78	82
16	98	65	79	102	94	97	131	89	99	85	81	83
17	108	73	87	102	77	95	134	88	110	90	82	85
18	115	76	97	106	68	81	138	120	128	91	85	88
19	107	63	92	99	68	80	140	78	109	90	80	87
20	101	70	90	99	62	82	92	76	86	106	80	89
21	93	71	82	107	70	86	97	83	88	96	90	93
22	86	70	77	125	69	100	108	88	95	95	84	90
23	92	76	82	119	98	113	106	95	99	90	83	86
24	92	79	84	118	98	109	96	89	92	92	86	89
25	101	83	91	104	65	83	96	89	92	97	89	92
26	103	85	91	101	79	90	93	89	90	100	93	96
27	113	94	101	112	91	97	97	88	92	100	95	98
28	113	102	106	106	89	97	98	90	94	99	94	96
29	113	100	104	102	92	96	103	89	97	104	95	98
30	124	79	102	122	96	105	110	96	104	101	96	99
31	112	61	83	---	---	---	120	103	109	103	97	100
MONTH	124	45	90	134	49	90	147	44	95	151	49	90
		FEBRUARY			MARCH			APRIL			MAY	
1	105	98	102	94	87	90	104	92	97	107	89	93
2	110	98	104	92	85	88	97	85	89	123	84	104
3	112	102	106	97	85	91	91	85	88	117	91	102
4	106	102	104	111	91	97	97	84	90	108	95	102
5	108	100	104	105	89	98	109	91	100	99	82	88
6	114	102	108	109	93	100	113	97	104	87	78	83
7	116	108	111	109	86	102	103	92	98	100	80	90
8	122	108	116	93	67	84	99	91	95	117	85	104
9	120	109	117	104	78	87	99	92	94	138	100	117
10	114	96	107	114	89	101	106	92	96	138	102	121
11	98	94	96	122	77	103	114	94	101	143	106	119
12	103	92	98	101	78	93	107	101	104	141	102	121
13	111	99	102	121	91	99	102	94	98	112	95	106
14	113	102	107	106	95	101	102	93	97	104	87	95
15	120	102	108	121	96	108	100	91	96	107	74	93
16	120	109	115	113	98	107	103	94	98	119	60	94
17	115	106	111	98	90	94	109	95	101	110	88	99
18	106	93	99	98	87	93	114	95	102	131	87	108
19	104	92	96	101	94	98	121	91	102	124	109	115
20	110	99	104	104	93	98	99	70	89	114	88	100
21	108	100	104	107	91	102	87	56	75	109	85	95
22	110	98	103	110	101	106	95	61	75	119	77	105
23	108	98	104	103	95	98	91	68	86	115	96	106
24	101	93	97	108	91	98	96	83	89	120	96	106
25	94	88	91	110	97	103	104	84	94	98	82	88
26	102	85	94	109	99	103	116	92	102	102	69	89
27	102	92	98	103	97	99	114	91	102	108	78	93
28	95	88	91	98	85	92	124	96	107	102	79	92
29	---	---	---	102	85	93	118	67	98	125	92	109
30	---	---	---	114	93	100	110	94	100	113	47	89
31	---	---	---	108	96	102	---	---	---	104	90	97
MONTH	122	85	103	122	67	98	124	56	96	143	47	101

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	92	83	88	107	72	88	124	74	93	115	65	84
2	104	80	89	112	50	81	139	79	105	128	77	104
3	113	80	91	101	65	81	148	106	125	114	85	99
4	85	63	75	104	75	91	149	68	116	87	77	81
5	115	28	66	108	78	92	151	82	115	85	70	78
6	110	18	34	115	80	94	113	67	94	87	75	80
7	101	1	28	128	73	100	103	50	89	93	75	83
8	40	0	13	109	63	81	97	78	88	100	79	88
9	114	1	59	164	84	111	110	63	85	97	80	87
10	118	89	98	140	83	116	139	92	109	94	81	87
11	104	85	96	150	78	110	120	55	98	---	---	---
12	111	77	92	124	25	72	127	40	82	---	---	---
13	108	59	91	75	8	43	122	60	97	---	---	---
14	105	48	77	108	49	72	127	94	104	---	---	---
15	107	57	79	146	74	102	121	87	104	---	---	---
16	112	70	93	128	64	97	117	7	90	---	---	---
17	103	80	89	112	51	88	102	70	83	---	---	---
18	100	77	92	110	46	83	101	77	89	---	---	---
19	93	76	86	141	21	73	107	76	90	---	---	---
20	91	82	86	111	35	73	128	79	94	140	95	117
21	112	82	94	150	31	84	117	89	98	114	94	104
22	118	87	98	121	31	70	125	63	93	129	90	107
23	103	88	96	124	75	95	113	88	99	139	89	109
24	103	85	95	116	87	100	111	79	91	136	89	105
25	95	87	91	139	92	108	90	74	81	118	85	98
26	108	84	93	196	84	116	100	72	84	102	82	93
27	114	92	99	168	57	111	85	72	81	104	66	86
28	110	88	100	127	37	89	89	64	77	107	79	92
29	103	89	93	107	64	80	90	61	80	126	79	98
30	138	83	99	98	73	87	106	74	86	99	76	84
31	---	---	---	101	83	89	86	65	75	---	---	---
MONTH	138	0	83	196	8	90	151	7	93	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	84	74	80	90	0	24	95	44	67	73	67	69
2	81	64	72	66	0	20	91	67	81	68	55	61
3	82	56	67	79	0	24	102	59	83	64	43	58
4	79	35	64	77	53	68	97	52	79	54	40	48
5	85	39	69	82	60	72	92	48	63	65	49	59
6	82	47	69	81	38	65	66	41	53	67	62	65
7	99	58	77	85	35	47	74	40	51	82	60	67
8	102	63	87	87	29	65	74	42	55	69	54	59
9	96	71	84	90	74	83	56	48	52	88	46	66
10	107	82	95	92	82	87	70	39	55	69	44	52
11	105	73	96	90	81	85	71	42	57	67	49	56
12	92	12	59	83	71	77	85	38	68	56	40	47
13	79	23	35	90	71	85	100	35	61	66	38	50
14	63	14	24	94	84	89	96	64	83	86	55	81
15	34	15	23	97	87	91	93	81	86	85	81	83
16	50	17	29	94	71	84	88	76	83	85	81	84
17	53	17	26	85	71	80	77	56	65	88	80	84
18	50	11	26	75	68	71	66	47	58	88	78	84
19	46	6	21	75	65	69	47	40	43	88	78	82
20	29	0	7	75	58	66	87	43	79	78	75	77
21	18	0	3	75	54	60	92	68	79	77	67	72
22	87	0	39	59	48	53	100	62	76	71	62	67
23	92	0	50	55	41	46	101	42	82	86	65	81
24	85	0	20	53	26	39	91	62	85	89	84	86
25	93	3	46	89	22	54	92	86	89	89	82	85
26	93	40	81	90	74	83	90	86	87	89	78	83
27	84	1	35	108	60	94	93	82	87	95	78	89
28	118	5	29	100	67	77	89	77	82	94	86	91
29	124	12	56	97	56	88	86	79	83	97	90	93
30	89	20	47	99	51	64	81	76	78	96	86	91
31	77	19	32	---	---	---	77	72	74	97	92	95
MONTH	124	0	50	108	0	67	102	35	72	97	38	73
		FEBRUARY			MARCH			APRIL			MAY	
1	100	91	96	94	85	90	117	88	102	99	25	75
2	99	89	95	90	86	88	104	89	95	62	6	26
3	101	87	96	96	85	90	97	90	93	102	11	44
4	99	96	98	94	83	90	100	84	91	113	57	93
5	100	94	97	100	59	77	107	84	95	106	89	95
6	106	98	100	97	65	77	104	77	94	93	85	89
7	107	93	102	86	63	69	97	50	81	94	78	88
8	103	93	98	88	59	78	---	---	---	101	71	77
9	107	92	98	79	69	75	---	---	---	91	48	62
10	107	83	96	107	67	82	---	---	---	117	43	64
11	94	81	91	96	60	70	---	---	---	117	65	97
12	95	78	83	103	78	94	---	---	---	114	17	64
13	96	69	75	105	90	96	---	---	---	113	34	93
14	88	63	71	107	89	101	---	---	---	105	11	50
15	78	48	65	114	93	100	---	---	---	45	9	21
16	77	54	61	110	93	101	---	---	---	50	5	13
17	65	54	59	101	93	98	---	---	---	111	10	80
18	98	61	73	103	93	98	---	---	---	122	74	94
19	94	64	86	103	90	99	---	---	---	107	26	81
20	105	57	82	102	89	96	70	51	61	98	21	55
21	104	46	70	108	80	88	65	56	62	105	34	90
22	109	48	92	118	78	97	72	54	60	96	55	76
23	109	64	97	114	68	85	82	50	68	58	25	41
24	100	92	97	114	61	81	94	52	72	100	16	55
25	95	82	89	119	103	111	102	62	87	92	24	80
26	91	64	83	120	101	108	113	87	99	85	50	68
27	98	63	88	114	96	106	104	26	67	90	22	47
28	96	88	91	111	93	100	107	30	50	38	9	17
29	---	---	---	116	94	103	63	15	32	34	3	9
30	---	---	---	116	93	106	110	13	63	11	2	4
31	---	---	---	116	103	109	---	---	---	98	1	30
MONTH	109	46	87	120	59	92	---	---	---	122	1	61

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	89	64	82	34	1	11	83	9	30	74	49	63
2	92	69	81	4	0	0	98	26	58	52	8	31
3	72	47	56	89	0	38	83	7	39	26	0	2
4	49	29	39	96	14	70	7	0	4	85	0	46
5	47	15	27	90	49	69	1	0	0	85	70	78
6	36	5	11	67	36	50	1	0	0	88	71	80
7	9	0	2	36	11	19	50	0	7	95	74	82
8	2	0	0	75	8	49	71	29	45	87	72	81
9	1	0	0	79	4	28	58	1	30	90	53	70
10	61	0	28	26	0	12	22	0	5	87	76	82
11	84	1	46	12	0	1	8	0	0	---	---	---
12	83	39	62	1	0	0	1	0	0	---	---	---
13	52	1	29	64	0	24	1	0	0	---	---	---
14	2	0	0	41	3	20	1	0	0	---	---	---
15	5	0	1	51	1	17	0	0	0	---	---	---
16	2	0	0	42	3	18	0	0	0	---	---	---
17	2	0	0	15	0	3	0	0	0	---	---	---
18	1	0	0	1	0	0	4	0	0	---	---	---
19	89	0	54	1	0	0	1	0	0	---	---	---
20	88	63	79	6	0	0	1	0	0	92	15	43
21	84	24	68	3	0	0	1	0	0	100	12	52
22	52	5	19	1	0	0	1	0	0	110	78	94
23	95	16	51	13	0	0	3	0	0	94	26	67
24	96	74	83	86	0	41	1	0	0	73	10	33
25	88	73	84	87	0	18	89	0	57	106	25	84
26	84	69	78	42	0	2	95	66	81	93	20	63
27	69	43	58	4	0	1	88	75	82	94	25	70
28	44	20	35	73	1	8	92	64	78	98	74	83
29	83	20	48	77	12	54	93	63	78	83	62	73
30	74	27	49	53	5	25	83	14	58	88	55	73
31	---	---	---	67	8	29	81	1	33	---	---	---
MONTH	96	0	39	96	0	20	98	0	22	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC

LOCATION.--Lat. 34°56'55", long. 76°48'35", Craven County, Hydrologic Unit 03020204, at U.S. Coast Guard Channel Light 9.

PERIOD OF RECORD.--May 1989 to July 1993, 1996 to current year.

PERIOD OF DAILY RECORD.--
SALINITY (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year
pH (TOP AND BOTTOM): June 1996 to current year.
WATER TEMPERATURE (TOP): May 1989 to July 1993, June 1996 to current year.
WATER TEMPERATURE (BOTTOM): June 1996 to current year.
DISSOLVED OXYGEN (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year.
DISSOLVED OXYGEN (MID): May 1989 to July 1993.
DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): May 1989 to July 1993, June 1996 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION (MID): May 1989 to July 1993.

INSTRUMENTATION.-- Water-quality monitor from May 1989 to July 1993. Constituents monitored were: specific conductance top and bottom, water temperature top and bottom, dissolved oxygen top, mid-depth and bottom. Water-quality monitor with satellite telemetry from June 1996 to current water year. Constituents monitored were the same as previous water years except mid-depth dissolved oxygen was not measured, water temperature, bottom, was added as well as pH top and bottom.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources. The monitor was removed August 29, 1999 to prevent possible destruction of the equipment during Hurricanes Dennis and Floyd. It was reinstalled on October 5, 1999. The monitor was removed on September 15, 2003 to prevent possible destruction of the equipment during Hurricane Isabel. It was reinstalled on September 26, 2003. The monitor was removed on September 11, 2005 to prevent possible destruction during Hurricane Ophelia. It was reinstalled on September 20, 2005. Prior to June 1996, top constituents were monitored at 8 ft above streambed, mid constituents at 6 ft above streambed and bottom constituents, 2 ft above streambed. Beginning in June 1996, top constituents were monitored at 8 ft above streambed and bottom constituents, 2 ft above streambed. Salinity and dissolved oxygen, percent saturation are computed. The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. The dissolved oxygen percent saturation is computed using a barometric pressure of 760mm of Hg beginning October 1, 2000.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY(TOP), ppt	23.6, August 28, 2002	<0.1, on many days during the period
SALINITY(BOTTOM), ppt	27.8, August 18, 2002	<0.1, on many days during the period
pH(TOP), standard units	10.4, April 19, 1999	4.3, June 13, 1997
pH(BOTTOM), standard units	9.3, March 12, 13, 14, 16-20, 1999	5.7, April 21, 2004
WATER TEMPERATURE (TOP), °C	32.7, July 27, 2005	0.2, January 25, 2003
WATER TEMPERATURE (BOTTOM), °C	31.4, July 29, 1999, July 28, 2005	0.8, January 25, 2003
DISSOLVED OXYGEN (TOP), mg/L	20.7, April 10, 1991	< 1.0, on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	16.8, April 26, 1991	< 1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.5, September 11	0.9, April 11
SALINITY (BOTTOM), ppt	15.3, August 17	1.6, April 16, 17
pH (TOP), standard units	9.1, December 7	6.8, June 11, 12
pH (BOTTOM), standard units	8.7, October 24, 27, December 19, Febuary 17	6.7, May 12, 20, 29, 30
WATER TEMPERATURE (TOP), °C	32.7, July 27	2.4, January 29
WATER TEMPERATURE (BOTTOM), °C	31.4, July 28	2.5, January 29
DISSOLVED OXYGEN (TOP), mg/L	16.0, December 31	0.1, August 8
DISSOLVED OXYGEN (BOTTOM), mg/L	13.4, February 2	0.0, on several days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	154, August 3	1, August 8
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	129, September 23	0, on several days during the year

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.0	3.2	4.6	8.8	6.7	7.0	9.7	7.2	8.3	7.6	5.6	6.2
2	4.2	2.5	3.2	8.6	6.8	7.4	8.3	8.0	8.2	9.3	5.3	6.9
3	4.9	2.5	2.9	9.0	7.3	7.9	8.1	7.5	7.8	9.3	5.3	7.6
4	5.2	2.7	3.6	10.2	8.6	9.3	7.5	6.6	7.1	8.6	3.4	5.0
5	3.2	2.5	2.8	9.8	9.1	9.4	6.7	4.6	5.7	7.5	4.4	6.0
6	3.7	2.8	3.1	9.5	9.1	9.2	6.2	4.8	5.4	11.8	6.5	9.4
7	4.6	3.2	3.7	9.5	8.9	9.2	10.6	3.9	6.2	11.8	9.1	10.7
8	5.0	3.2	4.0	9.3	7.9	8.6	9.7	5.1	7.9	12.2	10.9	11.7
9	5.0	3.2	3.5	9.2	8.6	8.9	9.5	6.8	8.4	12.0	11.7	11.9
10	4.1	3.1	3.3	9.2	8.6	8.8	9.5	6.4	8.8	12.0	8.6	11.1
11	4.2	3.1	3.3	9.1	8.9	9.0	9.6	7.1	8.5	11.9	8.3	10.7
12	3.4	2.6	3.0	9.7	8.9	9.2	8.5	6.0	8.0	11.9	8.0	10.2
13	5.2	2.6	3.9	9.5	8.8	9.1	7.5	6.0	6.9	12.0	9.3	11.3
14	5.2	3.9	4.4	9.7	8.5	9.0	7.6	6.9	7.2	12.0	10.6	11.6
15	5.7	4.0	4.4	8.5	7.5	7.9	7.2	6.5	6.9	12.0	11.1	11.5
16	7.2	4.5	5.9	8.1	6.8	7.2	7.5	6.8	7.1	11.9	8.2	9.9
17	5.9	4.3	4.9	8.3	7.1	7.8	7.8	7.3	7.5	9.2	7.6	8.3
18	6.7	4.3	5.4	8.0	6.2	6.8	8.6	7.3	7.8	9.6	8.2	8.9
19	9.8	5.5	7.2	10.0	5.8	7.7	8.3	7.2	7.6	9.8	8.0	8.8
20	8.1	6.0	6.9	10.9	6.4	9.2	10.6	7.0	8.2	9.3	7.5	8.4
21	6.7	6.1	6.4	11.3	7.1	9.0	9.5	7.7	8.5	8.6	7.1	7.8
22	7.2	5.9	6.3	11.1	7.5	9.0	9.7	8.1	8.9	8.6	7.3	7.8
23	6.5	5.1	5.8	9.5	8.6	9.0	9.8	8.9	9.4	8.4	7.0	7.7
24	5.9	4.8	5.3	9.3	8.8	9.1	9.7	9.0	9.3	7.5	6.4	6.9
25	6.5	5.0	5.6	11.8	8.8	9.8	9.7	7.8	9.1	9.2	7.1	7.8
26	7.3	5.1	6.3	10.1	8.5	9.4	8.5	6.3	7.6	8.5	7.8	8.0
27	7.3	5.5	6.4	8.8	8.0	8.3	7.6	5.8	6.6	8.5	8.0	8.2
28	6.7	6.2	6.4	8.8	7.4	7.9	9.1	6.0	7.6	8.4	6.5	7.5
29	7.5	6.6	7.0	9.4	7.8	8.5	8.3	6.1	7.6	7.0	4.4	5.6
30	7.1	6.7	6.9	8.3	7.6	7.9	8.7	5.6	6.7	7.6	5.6	6.3
31	7.1	6.7	6.9	---	---	---	8.6	5.8	7.2	6.9	6.2	6.7
MONTH	9.8	2.5	4.9	11.8	5.8	8.6	10.6	3.9	7.7	12.2	3.4	8.6
		FEBRUARY			MARCH			APRIL			MAY	
1	6.6	5.7	5.9	8.3	7.0	7.6	6.0	1.4	2.8	9.1	7.1	8.2
2	6.2	5.1	5.8	7.6	7.1	7.4	7.2	2.1	4.0	8.9	8.1	8.4
3	6.7	5.3	5.6	7.5	6.4	6.9	4.3	2.2	2.7	8.8	8.0	8.4
4	5.8	4.3	4.9	6.7	5.8	6.2	4.1	2.1	2.6	9.0	7.6	8.9
5	5.5	4.1	4.7	7.2	5.9	6.6	4.9	1.6	2.5	9.8	9.0	9.3
6	5.7	4.5	5.0	7.1	5.5	6.1	3.8	1.6	2.1	10.8	6.4	9.2
7	5.2	4.5	4.8	7.3	5.4	6.1	6.2	1.4	3.2	8.3	6.3	7.1
8	6.4	4.9	5.5	9.5	6.2	7.6	5.6	2.3	3.8	7.7	5.6	6.5
9	7.3	4.9	5.5	8.0	7.1	7.4	5.6	3.0	4.1	7.6	5.4	6.1
10	8.8	4.8	5.7	7.9	6.6	7.3	3.8	1.6	2.2	7.7	6.7	7.2
11	9.1	5.4	7.2	7.9	6.1	6.8	2.6	0.9	1.6	7.3	5.9	6.6
12	9.1	7.4	7.9	8.0	7.0	7.5	4.6	2.4	3.5	6.5	5.1	5.7
13	9.7	6.2	7.4	8.1	6.4	7.6	4.8	2.8	4.1	7.1	5.8	6.6
14	9.5	7.3	8.1	8.2	7.6	7.9	5.7	3.7	4.6	6.7	5.3	6.1
15	8.1	7.1	7.5	8.0	4.4	6.7	7.9	2.7	4.3	5.7	3.6	4.9
16	7.9	5.4	7.0	8.0	4.9	6.7	4.1	1.5	2.6	6.2	4.3	5.3
17	7.8	5.2	6.0	9.0	6.2	7.7	2.7	1.1	1.6	6.8	5.5	6.2
18	8.0	5.3	6.1	6.4	3.8	5.0	2.3	1.5	1.9	6.7	5.8	6.1
19	7.9	5.5	6.4	6.4	3.7	5.1	3.0	1.2	1.7	6.2	5.2	5.6
20	8.0	6.2	7.0	5.0	3.8	4.5	4.5	1.5	2.4	5.9	4.9	5.5
21	8.1	6.8	7.5	6.1	3.4	3.8	8.0	2.6	3.9	6.4	5.3	5.6
22	8.3	7.8	8.0	6.5	4.0	5.4	8.0	3.6	5.6	5.7	4.2	4.6
23	8.8	8.1	8.3	5.9	4.7	5.4	11.3	6.7	9.3	5.2	4.2	4.7
24	9.0	8.2	8.6	5.9	4.9	5.4	8.9	5.9	7.8	5.9	4.2	4.9
25	8.5	7.5	8.0	6.2	4.5	5.5	8.6	6.7	7.4	5.6	4.0	4.5
26	7.7	7.0	7.4	5.6	4.5	5.0	10.1	4.5	7.3	5.0	3.7	4.2
27	8.9	7.1	7.7	5.2	3.7	4.5	8.1	5.9	6.9	5.0	3.7	4.4
28	10.2	7.5	8.6	5.0	3.4	4.1	8.1	6.4	7.3	5.4	4.3	4.9
29	---	---	---	4.2	3.3	3.6	8.0	5.9	6.8	5.3	4.2	4.6
30	---	---	---	5.1	2.9	3.6	10.0	7.3	8.1	5.7	3.8	4.2
31	---	---	---	4.4	1.6	3.4	---	---	---	6.2	4.1	5.3
MONTH	10.2	4.1	6.7	9.5	1.6	5.9	11.3	0.9	4.3	10.8	3.6	6.1

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	5.2	6.2	9.2	7.3	7.9	9.6	9.0	9.3	10.5	10.2	10.3
2	7.6	5.2	6.3	9.0	7.6	8.0	9.1	7.5	8.4	10.5	10	10.2
3	5.9	4.9	5.3	9.3	8.1	8.6	9.1	6.8	7.9	11.1	9.6	10.1
4	6.0	4.5	5.2	9.5	8.6	9.0	7.6	5.4	6.7	11.2	10.7	11.0
5	7.1	4.1	4.9	9.2	8.3	8.7	8.6	5.8	6.8	12.0	10.8	11.4
6	6.2	4.6	5.3	9.2	7.8	8.2	9.5	6.9	8.0	13.0	11.5	12.3
7	8.6	4.4	5.8	8.2	7.1	7.8	9.9	7.2	8.5	13.1	11.1	11.8
8	8.5	4.9	6.0	9.2	6.5	7.6	9.8	7.9	8.9	11.8	10.8	11.3
9	9.8	6.8	8.2	8.5	6.8	7.5	8.7	7.0	7.8	11.7	10.6	11.1
10	9.9	8.0	8.8	8.8	7.3	7.8	7.8	6.6	7.2	13.3	11.1	12.4
11	9.0	7.0	8.3	8.1	6.8	7.3	8.0	6.1	6.7	---	---	---
12	8.8	6.7	7.7	7.8	6.4	6.9	10.0	5.8	7.1	---	---	---
13	8.6	6.7	7.2	9.8	6.2	7.4	9.7	5.9	8.0	---	---	---
14	7.3	6.3	6.8	9.8	8.2	9.0	10.2	7.3	8.2	---	---	---
15	7.5	5.9	6.7	9.8	8.3	8.8	9.5	5.5	7.0	---	---	---
16	8.8	5.6	7.3	9.1	8.5	8.8	10.2	5.2	6.9	---	---	---
17	9.4	6.4	7.9	9.7	8.0	8.6	9.3	5.3	6.4	---	---	---
18	9.2	7.1	8.2	9.7	7.6	8.3	8.1	5.5	6.9	---	---	---
19	10.1	9.1	9.6	9.0	7.5	8.1	8.5	7.9	8.2	---	---	---
20	10.1	9.0	9.6	8.5	7.0	7.5	10	7.5	8.0	---	---	---
21	9.6	6.5	8.1	8.6	6.7	7.8	9.2	7.5	8.0	11.0	9.2	10.3
22	8.1	6.7	7.5	9.5	7.5	8.4	10	7.4	8.3	11.0	10.4	10.7
23	9.3	8.0	8.4	9.9	7.6	8.8	11.4	7.6	8.4	10.7	9.2	9.8
24	9.5	8.7	9.2	9.8	8.8	9.1	9.8	7.7	8.7	10.6	8.8	9.5
25	9.8	9.0	9.4	9.7	8.9	9.3	10.9	9.3	10.3	11.8	10.6	11.2
26	9.5	7.9	8.7	9.8	8.7	9.2	11.5	10.6	11.0	10.7	10.0	10.4
27	9.3	8.0	8.3	9.4	7.8	8.6	11.5	9.5	10.5	10.7	9.6	10.2
28	9.9	8.1	8.5	9.5	7.6	8.4	11.3	9.8	10.7	11.1	10.7	11.0
29	10.2	8.2	9.0	10.2	9.5	9.9	11.3	9.9	10.6	11.1	9.7	10.3
30	9.2	7.5	8.2	10.1	9.4	9.8	10.8	9.3	9.9	11.3	9.8	10.7
31	---	---	---	9.8	9.2	9.5	10.4	9.7	10.1	---	---	---
MONTH	10.2	4.1	7.6	10.2	6.2	8.4	11.5	5.2	8.4	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.1	2.3	5.2	11.8	8.9	10.3	10.6	7.8	9.2	12.1	9.5	10.8
2	6.5	2.3	4.8	11.7	8.6	10.9	9.2	8.0	8.4	12.4	10.3	11.6
3	7.1	3.2	5.9	12.4	8.0	10.7	9.0	7.7	8.1	12.5	9.5	11.4
4	8.2	2.8	6.3	11.5	8.9	9.9	9.8	7.5	9.0	13.1	10.5	12.5
5	8.3	3.2	6.8	9.9	9.0	9.5	10.2	7.9	9.3	13.4	10.9	12.8
6	7.0	3.1	4.2	10.2	9.0	9.4	12.0	9.4	11.0	14.1	11.7	13.2
7	7.0	3.2	4.1	9.6	8.9	9.2	12.2	9.2	11.7	14.1	10.7	12.4
8	5.4	3.3	4.2	10.1	8.0	9.1	11.5	8.5	10.4	13.3	11.5	12.1
9	5.1	3.3	4.0	10.7	8.6	9.0	11.4	9.9	10.8	12.1	11.7	11.9
10	5.8	3.2	3.9	10.7	8.5	9.0	12.2	8.5	10.3	12.0	11.2	11.7
11	6.0	3.2	4.2	9.4	8.8	9.0	11.7	8.4	9.4	12.0	10.9	11.7
12	5.7	3.6	4.7	10.4	9.0	9.5	9.5	7.1	8.3	12.0	11.1	11.6
13	8.2	3.8	6.1	9.5	8.8	9.2	11.3	7.0	7.7	12.1	11.5	11.8
14	10.6	4.2	6.8	9.6	8.5	9.1	8.4	7.0	7.4	11.8	10.7	11.5
15	12.1	5.0	9.5	9.1	7.8	8.3	9.0	6.4	7.2	11.8	10.9	11.4
16	8.5	5.0	6.9	10.4	7.6	8.9	11.2	6.9	8.5	12.0	8.8	10.3
17	10.9	4.7	7.0	10.4	8.4	9.5	12.4	8.6	10.6	10.4	7.7	9.0
18	12.0	8.0	10.2	11.1	8.2	10.3	12.4	7.8	9.8	11.1	8.4	9.8
19	12.2	6.9	10.5	11.7	10.4	11.0	11.9	7.3	9.6	12.1	8.5	9.9
20	13.0	7.7	10.7	12.4	10.6	11.7	10.7	7.0	8.7	11.3	8.1	9.6
21	7.7	6.2	6.8	12.8	11.2	12.2	10.2	8.5	9.3	11.4	7.6	9.5
22	8.5	5.9	6.5	12.7	10.0	11.4	10.7	9.0	9.8	9.9	7.2	8.5
23	8.1	5.1	6.2	12.1	9.5	10.7	10.7	9.1	9.8	8.4	6.9	7.6
24	7.6	5.4	6.4	11.7	9.2	10.5	10	9.2	9.4	9.3	6.4	7.5
25	8.8	6.5	7.8	12.6	9.0	10.1	10.2	8.0	9.4	9.8	7.1	8.5
26	8.1	6.7	7.4	10.6	9.0	9.7	8.5	6.4	7.7	9.8	8.0	9.0
27	7.8	6.6	7.4	10.6	8.1	9.7	10.0	6.4	8.0	10.0	7.9	8.4
28	9.4	7.2	8.1	10.5	7.5	9.0	10.7	7.1	9.1	8.9	6.4	7.7
29	8.3	7.1	7.7	10.4	8.3	9.3	10.1	7.1	8.5	9.2	5.2	7.7
30	9.2	7.0	7.8	10.4	7.8	9.0	10.5	7.1	9.7	9.0	5.7	7.4
31	10.9	7.0	9.0	---	---	---	11.3	9.5	10.3	8.6	6.4	6.9
MONTH	13.0	2.3	6.7	12.8	7.5	9.8	12.4	6.4	9.2	14.1	5.2	10.2
		FEBRUARY			MARCH			APRIL			MAY	
1	7.7	5.6	6.2	8.9	7.0	7.8	8.9	4.7	6.2	9.7	7.7	8.7
2	7.5	5.4	6.0	7.8	7.2	7.4	9.2	2.3	4.8	9.3	8.5	8.9
3	7.3	5.3	6.0	8.6	6.5	7.1	5.5	2.2	2.9	9.2	8.2	8.6
4	6.2	4.4	5.0	9.5	6.1	8.2	5.1	2.6	3.3	9.2	8.8	9.0
5	7.8	4.7	6.2	10.2	6.5	7.6	7.6	3.5	5.4	9.8	9.0	9.3
6	7.3	4.9	6.0	8.6	5.7	6.8	8.2	3.0	5.9	10.7	6.3	9.2
7	7.8	5.5	6.2	11.2	6.1	7.5	9.8	7.0	8.0	9.0	6.2	7.7
8	7.8	5.7	6.5	9.7	6.5	7.9	9.8	4.1	6.9	8.4	6.4	7.3
9	11.4	6.8	8.9	8.3	7.1	7.5	6.5	3.3	4.6	8.4	5.9	7.5
10	11.6	5.4	8.7	8.3	6.8	7.5	6.8	2.4	4.0	8.3	7.1	7.6
11	11.1	5.5	8.7	8.1	6.3	7.2	7.5	2.8	4.8	7.8	6.7	7.2
12	12.3	7.7	9.2	8.1	7.1	7.7	6.5	2.8	4.1	8.6	5.7	7.0
13	12.8	8.1	11.0	9.2	7.3	8.1	5.0	3.1	4.2	7.6	6.1	6.7
14	11.4	8.4	9.7	8.8	7.8	8.0	5.7	3.7	4.6	7.3	5.8	6.5
15	11.3	8.9	9.8	8.2	6.4	7.7	7.8	2.8	4.4	8.4	5.5	6.8
16	12.4	7.5	10.4	8.6	6.4	7.3	4.1	1.6	2.9	8.9	5.3	6.8
17	11.6	6.0	8.3	9.7	6.5	7.9	4.6	1.6	2.9	6.7	5.6	6.2
18	9.5	5.6	7.5	7.5	5.2	6.4	7.6	2.0	4.3	6.6	5.9	6.2
19	12.7	6.8	8.3	7.5	5.6	6.6	10.4	5.7	8.6	6.3	5.3	5.8
20	10.5	7.1	8.5	8.4	4.8	6.5	11.5	9.3	10.7	6.7	5.1	5.7
21	11.3	7.1	8.4	9.8	4.5	7.7	11.6	4.0	10	6.5	5.3	5.7
22	12.2	7.9	8.6	9.6	4.9	6.4	12.7	7.9	10.6	6.3	4.2	5.0
23	10	8.1	8.4	7.5	5.2	5.7	13.2	7.9	10.9	6.8	4.2	5.1
24	9.2	8.2	8.7	6.5	5.2	5.8	10.6	7.2	8.4	7.2	4.3	5.5
25	8.5	7.5	8.1	6.4	5.3	5.8	8.6	6.7	7.6	6.6	4.2	5.2
26	8.6	7.3	7.7	6.0	4.9	5.3	12.4	6.7	9.7	6.4	3.7	5.0
27	8.9	7.1	8.0	5.8	4.2	4.9	12.4	7.1	9.2	6.7	4.4	5.2
28	10.2	7.5	8.7	6.4	3.5	4.6	9.8	7.0	8.1	8.0	4.5	5.8
29	---	---	---	4.5	3.3	3.8	12.0	6.4	8.4	8.4	4.6	6.5
30	---	---	---	6.4	3.7	5.1	11.6	7.7	9.7	9.1	6.4	7.8
31	---	---	---	5.3	3.4	4.2	---	---	---	7.8	4.7	6.0
MONTH	12.8	4.4	8.0	11.2	3.3	6.7	13.2	1.6	6.5	10.7	3.7	6.8

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	5.1	6.2	11.8	7.9	10.4	9.8	9.0	9.3	11.1	10.4	10.6
2	7.3	5.1	6.3	11.5	9.2	10.5	10	8.3	9.1	12.0	10.2	10.9
3	6.9	5.4	6.0	11.8	8.1	9.6	9.7	7.8	8.6	12.5	9.7	10.6
4	8.5	5.6	7.1	10.6	8.7	9.5	10.6	7.6	9.0	11.3	10.8	11.1
5	10.2	7.6	8.9	9.8	8.5	9.1	10.7	9.2	10.1	12.2	10.9	11.5
6	11.4	8.3	10.4	9.8	8.1	8.7	11.2	9.8	10.5	13.1	12.0	12.6
7	11.7	8.3	11.0	10.5	7.8	9.0	12.0	9.6	10.9	13.3	11.3	12.0
8	12.0	10.2	11.5	10.6	7.0	8.7	10.4	8.8	9.6	12.3	11.0	11.6
9	12.1	10.9	11.8	11.4	7.0	8.8	10.1	8.4	9.3	11.7	10.6	11.2
10	12.2	10	11.3	10.6	7.5	9.4	11.2	7.6	9.5	13.3	11.7	12.6
11	11.5	8.3	9.9	11.7	9.1	10.8	12.2	8.8	10.6	---	---	---
12	10.4	8.6	9.4	12.8	9.2	10.9	13.3	10.1	12.5	---	---	---
13	12.7	9.0	10.5	12.8	7.1	9.2	13.7	10.9	12.8	---	---	---
14	12.6	8.5	10.8	10	8.8	9.5	14.0	10.9	13.3	---	---	---
15	14.2	9.9	12.6	10.5	8.6	9.2	14.2	10.4	13.3	---	---	---
16	14.5	8.4	12.2	11.1	8.8	9.7	15.0	12.5	14.1	---	---	---
17	13.0	7.8	10.1	12.5	8.5	10	15.3	8.8	13.3	---	---	---
18	12.7	8.3	10	12.6	8.7	10.2	14.0	9.2	12.1	---	---	---
19	10.8	9.2	9.7	13.5	8.8	10.5	13.2	8.8	10.4	---	---	---
20	10.4	8.9	9.8	13.0	7.3	9.5	13.7	9.0	10.9	---	---	---
21	10.5	8.2	9.0	12.9	7.8	9.8	14.0	9.8	11.8	12.6	9.9	11.3
22	11.5	7.6	9.1	13.1	8.1	10.4	14.6	9.8	12.1	11.7	10.4	10.9
23	11.1	8.0	9.2	12.3	8.1	10.6	14.8	10.2	13.1	11.5	9.8	10.6
24	9.6	8.8	9.2	11.6	9.0	10.1	15.0	8.9	11.9	11.8	9.4	10.3
25	9.8	9.0	9.4	11.3	9.3	9.8	12.2	10.0	10.7	11.8	10.6	11.3
26	10.9	8.0	9.2	11.7	9.3	10.0	11.5	10.6	11.0	11.6	10.4	10.8
27	10.8	9.5	10.2	12.4	9.2	10.8	11.5	9.5	10.7	11.5	9.8	10.5
28	11.2	9.6	10.6	12.8	9.1	11.2	11.6	10.0	10.8	11.5	10.7	11.0
29	11.2	8.4	10.4	10.7	9.6	10.1	11.3	10.2	10.8	11.2	10.1	10.6
30	11.7	7.9	10.0	10.2	9.5	9.9	11.7	9.9	10.6	11.3	10.1	10.8
31	---	---	---	11.0	9.2	9.6	11.7	10.0	10.7	---	---	---
MONTH	14.5	5.1	9.7	13.5	7.0	9.9	15.3	7.6	11.1	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.0	7.3	8.7	7.7	8.5	8.4	7.9	8.2	9.0	8.2	8.7
2	7.4	7.0	7.2	8.6	7.5	8.3	8.4	8.0	8.2	8.8	7.9	8.4
3	7.5	7.1	7.3	8.3	7.8	8.1	8.3	8.0	8.2	8.9	7.9	8.5
4	7.8	7.0	7.3	8.0	7.6	7.8	8.8	8.3	8.6	9.0	7.9	8.7
5	7.8	7.1	7.4	8.0	7.5	7.7	9.0	8.6	8.8	8.9	8.4	8.7
6	7.5	7.0	7.2	8.0	7.6	7.8	8.9	8.6	8.8	8.8	7.9	8.3
7	8.2	7.0	7.6	8.1	7.6	7.9	9.1	7.6	8.6	8.3	7.8	8.1
8	8.2	7.5	7.9	8.0	7.9	7.9	8.8	8.0	8.2	8.2	7.9	8.1
9	8.5	7.5	7.9	8.0	7.8	7.9	8.7	7.7	8.0	8.2	8.0	8.0
10	8.3	7.6	8.0	8.0	7.8	7.9	8.4	7.6	8.0	8.1	7.7	7.9
11	8.6	7.8	8.1	8.0	7.7	7.9	8.4	8.0	8.1	8.1	7.7	7.9
12	8.7	8.0	8.4	8.0	7.7	7.8	8.5	8.0	8.2	8.1	7.8	7.9
13	8.5	7.7	8.1	7.9	7.7	7.8	8.5	8.2	8.4	8.1	7.7	7.8
14	8.1	7.6	7.9	7.9	7.7	7.8	8.6	8.3	8.5	7.7	7.5	7.6
15	8.2	7.8	8.0	8.0	7.8	7.9	8.5	8.0	8.3	7.7	7.6	7.6
16	8.2	7.5	7.8	8.1	7.8	8.0	8.7	8.2	8.4	7.6	7.5	7.6
17	8.6	7.8	8.2	8.3	7.9	8.1	8.7	8.3	8.5	7.7	7.5	7.6
18	8.6	7.9	8.2	8.6	8.1	8.3	8.7	8.3	8.6	7.7	7.6	7.7
19	8.3	7.6	7.9	8.6	7.7	8.2	8.9	8.6	8.8	7.9	7.6	7.8
20	8.5	7.8	8.1	8.3	7.5	7.9	8.8	8.0	8.3	8.0	7.7	7.9
21	8.3	8.1	8.2	8.4	7.7	8.0	8.3	8.0	8.1	8.0	7.9	7.9
22	8.4	8.1	8.3	8.4	7.6	8.1	8.3	8.0	8.1	8.0	7.8	7.9
23	8.6	8.2	8.4	8.4	8.1	8.3	8.3	8.0	8.1	7.8	7.6	7.7
24	8.7	8.0	8.3	8.4	8.0	8.2	8.1	8.0	8.0	7.7	7.6	7.6
25	8.7	8.0	8.3	8.1	7.3	7.8	8.1	7.9	8.0	7.9	7.7	7.7
26	8.5	8.0	8.2	8.0	7.7	7.9	8.0	7.8	7.9	7.9	7.7	7.8
27	8.8	7.9	8.2	8.2	7.9	8.0	8.1	7.8	7.9	7.9	7.8	7.8
28	8.9	8.0	8.3	8.2	8.0	8.1	8.3	7.9	8.1	7.9	7.7	7.8
29	8.5	7.7	8.1	8.3	8.0	8.2	8.4	8.1	8.2	7.8	7.6	7.7
30	8.6	8.1	8.4	8.4	8.2	8.3	8.6	8.1	8.3	7.9	7.8	7.8
31	8.7	7.8	8.3	---	---	---	9.0	8.0	8.4	7.9	7.8	7.8
MONTH	8.9	7.0	8.0	8.7	7.3	8.0	9.1	7.6	8.3	9.0	7.5	7.9
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.8	7.9	8.2	8.0	8.1	8.6	7.6	8.1	7.8	7.3	7.5
2	8.2	7.8	8.0	8.1	8.0	8.0	8.0	7.2	7.6	7.7	7.2	7.4
3	8.3	8.0	8.2	8.1	7.9	8.0	7.6	7.4	7.5	7.8	7.3	7.5
4	8.2	8.0	8.1	8.6	8.0	8.3	7.9	7.5	7.6	7.4	7.2	7.3
5	8.3	7.9	8.1	8.5	8.3	8.4	8.5	7.4	8.0	7.5	7.1	7.3
6	8.6	8.0	8.3	8.7	8.4	8.5	8.7	7.8	8.3	7.8	7.4	7.6
7	8.6	8.3	8.4	8.7	8.4	8.6	8.3	7.5	8.1	8.0	7.6	7.7
8	8.7	8.1	8.5	8.4	7.7	8.0	8.6	7.5	7.9	8.6	7.7	8.1
9	8.6	8.1	8.5	8.3	7.8	8.0	8.4	7.9	8.1	8.7	8.0	8.5
10	8.6	8.1	8.4	8.3	7.9	8.1	8.5	7.7	8.2	8.5	7.9	8.3
11	8.3	8.0	8.1	8.4	8.0	8.2	8.8	7.8	8.3	8.4	7.8	8.1
12	8.2	7.9	8.1	8.3	7.9	8.0	8.6	7.8	8.2	8.8	8.1	8.5
13	8.4	8.0	8.2	8.3	8.0	8.1	8.0	7.5	7.7	8.2	7.2	7.7
14	8.3	8.2	8.3	8.2	8.0	8.1	7.8	7.5	7.6	8.3	7.3	7.8
15	8.6	8.2	8.4	8.8	8.0	8.3	7.8	7.6	7.6	9.0	8.0	8.4
16	8.7	8.4	8.6	8.6	7.9	8.2	7.8	7.5	7.6	8.7	7.3	8.1
17	8.7	8.5	8.6	7.9	7.7	7.8	8.1	7.5	7.7	8.0	7.5	7.8
18	8.6	8.5	8.6	8.4	7.8	8.1	8.9	7.7	8.3	8.0	7.3	7.6
19	8.7	8.5	8.6	8.3	8.0	8.2	8.9	8.0	8.4	8.1	7.4	7.7
20	8.7	8.5	8.6	8.8	8.1	8.4	8.9	7.7	8.3	7.7	7.0	7.4
21	8.7	8.5	8.6	8.7	8.0	8.5	8.6	7.5	8.1	7.6	7.3	7.4
22	8.6	8.4	8.5	8.7	8.1	8.3	8.2	7.5	7.9	8.5	7.3	8.0
23	8.5	8.4	8.5	8.2	7.7	7.9	7.8	7.3	7.5	8.5	7.4	7.9
24	8.5	8.3	8.4	8.3	7.7	7.9	8.0	7.6	7.8	8.7	7.3	7.9
25	8.4	8.3	8.3	8.0	7.7	7.9	8.1	7.7	7.8	8.2	7.4	7.9
26	8.6	8.3	8.5	8.2	7.8	7.9	8.3	7.6	7.9	8.6	7.5	7.9
27	8.6	8.2	8.4	8.1	7.8	7.9	8.8	7.8	8.3	8.7	7.6	8.1
28	8.2	8.0	8.1	8.2	7.6	7.9	8.5	7.8	8.2	8.4	7.6	8.0
29	---	---	---	8.4	7.7	8.1	8.4	7.7	8.0	8.6	7.6	8.1
30	---	---	---	8.6	7.8	8.2	8.0	7.4	7.7	8.4	7.4	8.1
31	---	---	---	8.5	7.8	8.2	---	---	---	7.9	7.5	7.7
MONTH	8.7	7.8	8.3	8.8	7.6	8.1	8.9	7.2	7.9	9.0	7.0	7.8

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.4	7.6	8.2	7.4	7.8	8.1	7.3	7.7	8.3	7.5	7.9
2	7.6	7.4	7.5	8.4	7.8	8.1	8.3	7.7	8.0	8.3	7.7	7.9
3	8.1	7.4	7.6	8.2	7.7	8.0	8.7	7.6	8.2	8.1	7.7	8.0
4	8.6	7.4	7.9	8.1	7.6	7.9	8.6	8.0	8.3	8.0	7.8	7.9
5	8.6	7.6	8.1	7.9	7.6	7.8	8.4	7.9	8.3	8.1	7.9	8.0
6	8.5	7.2	7.9	8.0	7.3	7.7	8.4	7.2	7.9	8.1	8.0	8.0
7	8.6	6.9	7.9	8.2	7.6	7.9	8.3	7.2	7.8	8.1	7.9	8.0
8	8.4	7.3	7.8	8.0	7.2	7.8	7.7	6.9	7.0	8.0	7.9	8.0
9	7.6	7.0	7.3	8.2	7.7	7.9	7.7	6.9	7.2	8.1	7.9	8.0
10	7.4	7.0	7.2	8.4	7.5	8.0	8.6	7.2	8.0	8.0	7.9	8.0
11	7.7	6.8	7.1	8.4	7.8	8.2	8.6	7.4	8.2	---	---	---
12	7.6	6.8	7.2	8.4	7.9	8.2	8.5	7.3	8.1	---	---	---
13	7.7	7.0	7.4	8.3	7.2	7.9	8.4	7.2	7.9	---	---	---
14	7.8	7.2	7.4	8.1	7.2	7.5	8.4	7.0	7.7	---	---	---
15	7.9	7.2	7.5	8.3	7.2	7.7	8.3	7.2	7.8	---	---	---
16	8.0	7.0	7.4	8.4	7.5	7.9	8.3	7.2	7.9	---	---	---
17	7.7	7.0	7.4	8.5	7.4	8.0	8.4	7.5	8.0	---	---	---
18	7.9	7.3	7.6	8.5	7.4	8.0	8.5	7.8	8.2	---	---	---
19	7.6	7.3	7.4	8.2	7.7	8.0	8.8	8.1	8.4	---	---	---
20	7.8	7.4	7.6	8.3	7.7	8.0	8.7	7.7	8.4	---	---	---
21	8.0	7.5	7.7	8.3	7.6	8.0	8.6	8.0	8.4	8.2	7.7	8.0
22	8.3	7.6	7.9	8.2	7.5	7.9	8.7	7.9	8.3	8.3	7.9	8.0
23	8.1	7.8	8.0	8.5	7.4	8.0	8.5	7.2	8.2	8.4	7.7	8.0
24	8.0	7.7	7.8	8.2	7.7	8.0	8.3	7.9	8.1	8.2	7.9	8.0
25	7.9	7.4	7.6	8.5	7.6	8.0	8.1	7.8	7.9	8.0	7.8	7.9
26	8.0	7.3	7.6	8.4	7.5	8.0	8.0	7.7	7.8	8.0	7.7	7.8
27	8.0	7.6	7.8	8.6	7.5	8.2	7.9	7.4	7.7	7.9	7.5	7.8
28	8.2	7.6	7.9	8.3	7.9	8.2	7.9	7.3	7.6	7.9	7.4	7.7
29	8.2	7.3	7.7	8.0	7.2	7.5	7.8	7.3	7.5	8.1	7.6	7.8
30	8.3	7.4	7.6	7.6	7.3	7.5	8.2	7.4	7.7	7.9	7.6	7.8
31	---	---	---	8.0	7.4	7.8	8.3	7.6	7.9	---	---	---
MONTH	8.6	6.8	7.6	8.6	7.2	7.9	8.8	6.9	7.9	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	7.4	7.7	7.5	7.0	7.1	8.3	7.3	7.8	7.7	7.3	7.4
2	7.6	7.3	7.4	7.5	7.0	7.1	8.3	7.7	8.0	7.6	7.3	7.4
3	7.4	7.1	7.3	8.0	7.0	7.3	8.2	7.8	8.1	7.4	7.3	7.3
4	7.4	7.0	7.1	7.7	7.1	7.5	8.3	7.7	7.9	7.4	7.2	7.3
5	7.7	6.9	7.1	7.9	7.5	7.6	8.2	7.5	7.7	7.6	7.2	7.4
6	8.1	6.9	7.4	7.9	7.3	7.6	8.2	7.4	7.6	8.0	7.3	7.6
7	8.0	7.1	7.5	8.0	7.6	7.8	8.0	7.3	7.5	8.2	7.4	7.7
8	8.1	7.3	7.8	7.9	7.6	7.8	8.0	7.5	7.7	8.1	7.5	7.9
9	7.8	7.2	7.6	7.9	7.7	7.8	7.7	7.3	7.5	8.1	7.9	8.0
10	8.1	7.2	7.6	7.9	7.6	7.8	8.2	7.3	7.7	8.0	7.7	7.9
11	8.3	7.3	7.8	7.9	7.6	7.8	8.3	7.5	7.9	8.0	7.6	7.7
12	7.9	7.5	7.6	7.9	7.4	7.6	8.4	7.8	8.1	7.9	7.6	7.7
13	8.0	7.3	7.6	7.8	7.6	7.7	8.5	7.8	8.2	7.8	7.6	7.7
14	7.8	7.2	7.5	7.8	7.6	7.7	8.5	8.1	8.3	7.7	7.5	7.7
15	8.0	7.4	7.6	7.8	7.6	7.7	8.5	7.9	8.1	7.6	7.5	7.5
16	8.0	7.6	7.8	7.8	7.5	7.7	8.3	7.6	8.0	7.6	7.5	7.5
17	8.1	7.4	7.7	8.0	7.5	7.7	8.1	7.4	7.7	7.6	7.5	7.6
18	7.7	7.4	7.5	8.0	7.4	7.5	8.5	7.4	8.0	7.7	7.5	7.6
19	7.9	7.4	7.5	7.5	7.4	7.5	8.7	7.3	8.1	7.8	7.4	7.6
20	7.7	7.4	7.5	7.6	7.4	7.4	8.5	7.9	8.2	7.9	7.5	7.7
21	8.3	7.7	7.9	7.6	7.4	7.5	8.1	7.8	8.0	7.9	7.5	7.7
22	8.5	7.9	8.2	7.8	7.4	7.5	8.0	7.6	7.8	7.9	7.5	7.7
23	8.6	7.7	8.2	8.0	7.4	7.6	8.1	7.4	7.8	7.7	7.5	7.6
24	8.7	7.7	8.1	8.0	7.3	7.5	8.0	7.7	7.9	7.7	7.5	7.6
25	8.1	7.6	7.7	7.9	7.2	7.6	7.9	7.8	7.8	7.7	7.6	7.6
26	8.6	7.6	8.0	8.0	7.6	7.8	7.9	7.7	7.8	7.8	7.6	7.7
27	8.7	7.8	8.2	8.0	7.7	7.8	7.9	7.7	7.8	7.8	7.5	7.8
28	8.3	7.8	7.9	8.1	7.6	7.9	8.1	7.6	7.8	7.8	7.7	7.8
29	8.4	7.2	7.7	8.1	7.7	7.9	8.1	7.6	7.9	7.8	7.6	7.6
30	8.3	7.0	7.5	8.3	7.5	7.9	8.1	7.5	7.7	7.8	7.6	7.7
31	7.9	7.0	7.2	---	---	---	7.7	7.4	7.5	7.8	7.6	7.7
MONTH	8.7	6.9	7.7	8.3	7.0	7.6	8.7	7.3	7.9	8.2	7.2	7.6
		FEBRUARY			MARCH			APRIL			MAY	
1	7.8	7.6	7.7	8.2	8.0	8.1	8.1	7.2	7.4	7.6	7.2	7.4
2	8.2	7.7	7.9	8.1	7.9	8.0	8.0	7.4	7.7	7.4	7.1	7.2
3	8.3	8.0	8.2	8.1	7.9	8.0	7.8	7.6	7.7	7.7	7.1	7.4
4	8.2	8.0	8.1	8.4	7.9	8.0	7.7	7.4	7.6	7.4	7.1	7.2
5	8.3	8.0	8.2	8.4	7.5	8.2	8.2	7.2	7.5	7.4	7.0	7.3
6	8.6	8.1	8.3	8.6	8.0	8.4	8.4	7.2	7.5	7.6	7.4	7.4
7	8.4	7.9	8.2	8.6	7.6	8.3	7.5	7.2	7.3	7.5	7.3	7.4
8	8.4	7.9	8.2	8.4	7.7	8.0	7.7	7.2	7.3	7.8	7.2	7.5
9	8.3	7.8	7.9	8.2	7.7	7.9	8.6	7.4	8.1	8.1	7.2	7.5
10	8.5	7.8	8.1	8.3	7.9	8.1	8.5	7.6	8.1	8.3	7.0	7.8
11	8.3	8.0	8.1	8.4	8.0	8.2	8.4	7.2	7.8	8.1	7.1	7.6
12	8.2	7.9	8.1	8.3	7.9	8.1	8.4	7.5	8.0	8.4	6.7	7.5
13	8.4	7.8	8.0	8.3	7.9	8.1	8.0	7.4	7.7	7.9	7.1	7.5
14	8.3	7.8	8.2	8.2	8.1	8.1	7.8	7.5	7.6	8.0	6.9	7.4
15	8.3	7.8	8.1	8.4	8.0	8.1	7.7	7.6	7.7	7.9	6.8	7.1
16	8.6	7.5	8.0	8.5	7.7	8.2	7.8	7.4	7.6	8.2	6.8	7.3
17	8.7	7.7	8.3	8.0	7.8	7.9	7.9	7.4	7.6	8.0	7.6	7.8
18	8.6	8.1	8.5	8.1	7.8	7.9	8.1	7.3	7.6	7.9	7.2	7.5
19	8.6	7.6	8.4	8.3	7.8	8.0	7.5	7.2	7.4	8.0	6.9	7.4
20	8.6	7.8	8.4	8.3	7.6	8.0	7.4	7.3	7.3	7.6	6.7	7.1
21	8.6	7.6	8.3	8.3	7.4	7.8	7.8	7.2	7.3	7.4	7.0	7.2
22	8.6	7.4	8.3	8.5	7.4	8.2	7.7	7.2	7.3	8.3	7.0	7.6
23	8.5	8.1	8.4	8.3	7.4	7.9	7.6	7.2	7.4	8.0	6.9	7.4
24	8.4	8.2	8.3	8.3	7.8	7.9	7.9	7.4	7.6	7.9	6.9	7.3
25	8.4	8.2	8.3	8.0	7.8	7.9	7.9	7.6	7.7	7.8	6.8	7.3
26	8.4	8.0	8.3	8.3	7.8	8.0	7.9	7.1	7.5	7.9	6.9	7.3
27	8.5	8.1	8.3	8.2	7.9	8.1	8.2	7.1	7.6	7.7	6.9	7.3
28	8.2	8.0	8.1	8.4	7.5	8.0	8.1	7.4	7.8	7.8	6.8	7.2
29	---	---	---	8.5	8.0	8.2	8.1	7.0	7.7	7.5	6.7	7.0
30	---	---	---	8.3	7.6	7.8	7.8	7.0	7.4	7.1	6.7	6.9
31	---	---	---	8.6	7.4	8.1	---	---	---	7.4	6.9	7.2
MONTH	8.7	7.4	8.2	8.6	7.4	8.0	8.6	7.0	7.6	8.4	6.7	7.4

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	7.0	7.1	7.8	6.9	7.2	8.2	7.4	7.8	7.9	7.4	7.7
2	7.2	6.8	7.1	7.7	7.0	7.2	8.0	7.2	7.7	7.8	7.4	7.6
3	7.2	6.8	6.9	8.1	6.9	7.6	8.2	7.1	7.7	8.1	7.2	7.8
4	7.2	6.8	6.9	7.9	7.1	7.6	8.3	7.0	7.5	8.0	7.8	7.9
5	6.9	6.8	6.9	7.8	7.1	7.6	7.8	7.0	7.2	8.1	7.9	8.0
6	7.0	6.8	6.8	7.8	7.1	7.5	7.6	7.0	7.1	8.1	8.0	8.0
7	7.0	6.8	6.9	7.9	7.0	7.4	7.8	7.0	7.2	8.1	7.9	8.0
8	7.0	6.8	6.9	8.0	7.0	7.5	7.5	6.9	7.0	8.1	7.8	8.0
9	6.9	6.8	6.9	8.1	7.1	7.4	7.2	6.9	7.0	8.1	7.8	8.0
10	6.9	6.8	6.8	8.1	7.1	7.4	7.8	6.9	7.1	8.1	8.0	8.0
11	7.1	6.8	6.8	7.4	7.1	7.2	7.3	7.0	7.1	---	---	---
12	7.1	6.8	6.9	7.5	7.0	7.2	7.2	7.1	7.2	---	---	---
13	7.0	6.8	6.9	8.1	7.1	7.5	7.2	7.0	7.2	---	---	---
14	7.1	6.9	7.0	7.9	7.2	7.4	7.3	7.1	7.2	---	---	---
15	7.0	6.8	6.9	8.0	7.1	7.4	7.3	7.1	7.2	---	---	---
16	7.3	6.8	6.9	7.9	7.0	7.4	7.3	7.2	7.2	---	---	---
17	7.4	6.8	7.1	8.2	7.0	7.4	8.0	7.1	7.3	---	---	---
18	7.8	6.8	7.2	7.9	7.0	7.5	8.1	7.2	7.3	---	---	---
19	7.6	7.1	7.4	7.9	7.0	7.4	7.9	7.2	7.5	---	---	---
20	7.8	7.4	7.6	8.0	7.1	7.6	7.8	7.1	7.4	---	---	---
21	7.8	7.1	7.5	7.9	7.0	7.4	7.8	7.1	7.3	8.0	7.3	7.7
22	7.9	7.0	7.4	7.8	7.0	7.4	7.8	7.1	7.3	8.3	7.4	7.9
23	7.9	7.0	7.5	8.1	7.1	7.3	7.5	7.0	7.2	8.4	7.6	7.9
24	7.8	7.4	7.7	7.9	7.0	7.5	8.2	7.0	7.4	8.1	7.2	7.8
25	7.7	7.1	7.5	8.0	7.0	7.6	8.0	7.2	7.7	8.1	7.6	8.0
26	7.7	7.2	7.4	8.0	7.1	7.5	8.0	7.6	7.8	8.0	7.3	7.8
27	7.6	7.2	7.3	7.8	6.8	7.2	7.9	7.2	7.6	7.9	7.3	7.8
28	7.6	7.0	7.2	8.2	6.9	7.2	7.9	6.9	7.4	7.9	7.4	7.8
29	7.7	7.0	7.2	7.6	7.1	7.4	7.8	7.3	7.5	8.0	7.6	7.7
30	7.5	6.9	7.2	7.6	7.3	7.4	7.7	6.9	7.4	7.9	7.6	7.8
31	---	---	---	8.0	7.1	7.7	8.0	7.0	7.6	---	---	---
MONTH	7.9	6.8	7.1	8.2	6.8	7.4	8.3	6.9	7.4	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.5	23.7	24.0	20.6	19.0	20.0	13.6	12.5	13.0	8.0	6.5	7.0
2	24.9	24.0	24.3	21.1	19.4	20.1	13.1	12.3	12.8	8.9	6.8	7.6
3	25.4	24.2	24.6	20.6	19.4	20.1	12.6	11.8	12.3	9.4	7.0	8.2
4	25.9	24.2	25.0	20.0	18.7	19.3	12.4	11.2	11.9	11.0	7.4	9.6
5	25.4	24.1	24.8	19.4	18.2	18.8	12.1	11.0	11.6	10.9	9.3	10.2
6	24.1	22.9	23.7	18.7	17.2	18.0	12.2	11.6	11.9	10.8	8.3	9.6
7	22.9	22.2	22.5	17.9	15.9	17.5	13.8	11.9	13.0	10.6	8.9	9.5
8	22.8	21.8	22.2	17.2	16.5	16.9	15.5	13.4	13.8	11.0	8.8	9.5
9	22.9	21.9	22.3	16.5	15.3	15.9	15.3	13.7	14.1	10.2	9.5	9.8
10	23.1	22.0	22.5	15.5	14.3	14.7	15.5	14.0	14.6	11.9	9.5	10.4
11	22.9	21.8	22.3	15.6	14.2	14.8	15.3	13.6	14.5	11.8	10.0	10.7
12	22.4	21.3	21.7	16.1	14.9	15.4	13.7	12.5	13.2	11.6	10.2	10.9
13	22.2	21.4	21.8	15.5	13.9	15.1	12.7	11.9	12.4	12.2	10.4	11.2
14	21.9	21.5	21.7	14.0	12.3	13.5	12.0	10.4	11.5	13.4	11.3	12.3
15	21.6	20.7	21.2	12.9	12.1	12.4	10.8	8.1	9.7	12.0	10.3	11.4
16	20.7	19.4	20.1	12.3	11.7	11.9	9.6	7.7	8.6	10.7	9.1	10.0
17	20.1	18.7	19.3	13.0	11.2	12.1	9.5	8.0	8.7	9.8	8.0	9.0
18	20.1	19.0	19.6	12.9	11.7	12.4	9.7	8.6	9.2	8.1	5.8	6.9
19	21.5	19.5	20.4	13.1	12.2	12.6	9.4	8.7	9.0	6.9	4.2	5.3
20	21.4	20.7	21.1	13.5	12.5	12.9	9.3	5.5	7.8	6.7	4.3	5.4
21	21.1	20.5	20.8	13.8	12.9	13.4	7.6	5.1	6.5	6.0	5.3	5.7
22	20.5	19.4	20.0	14.1	13.2	13.6	7.7	6.5	7.2	5.4	4.7	5.1
23	19.4	18.2	18.8	14.1	13.7	13.9	9.5	7.7	8.5	5.3	3.7	4.7
24	18.4	17.4	17.7	14.8	14.0	14.4	9.0	8.4	8.7	3.8	2.9	3.4
25	18.4	16.7	17.3	15.3	13.5	14.7	8.4	7.0	7.8	4.4	2.8	3.5
26	17.6	16.4	17.1	14.6	12.8	13.5	7.1	5.5	6.5	4.2	3.5	3.9
27	17.7	16.0	17.2	12.8	12.3	12.6	5.7	4.4	5.3	4.5	4.0	4.2
28	17.7	17.1	17.4	13.5	12.7	13.1	5.5	4.2	4.8	4.1	3.0	3.4
29	17.8	17.1	17.5	13.1	12.2	12.8	5.5	3.5	4.7	3.2	2.4	2.8
30	19.2	17.6	18.2	13.0	12.3	12.6	6.1	4.5	5.3	3.8	3.1	3.5
31	20.7	18.6	19.3	---	---	---	6.8	5.5	6.0	4.0	3.5	3.8
MONTH	25.9	16.0	20.9	21.1	11.2	15.0	15.5	3.5	9.8	13.4	2.4	7.4
		FEBRUARY			MARCH			APRIL			MAY	
1	4.2	3.7	4.0	9.0	8.3	8.7	17.6	15.6	16.6	17.9	17.3	17.6
2	4.7	3.7	4.2	8.4	7.2	7.9	17.5	14.8	16.3	19.4	17.0	17.8
3	4.7	4.0	4.4	7.8	7.0	7.4	15.8	14.1	15.3	19.5	17.8	18.4
4	4.8	4.3	4.6	9.2	6.7	7.7	15.8	14.4	15.1	18.7	17.8	18.2
5	5.5	4.5	4.9	8.8	7.6	8.2	16.7	15.2	15.9	18.4	17.5	18.0
6	6.7	4.6	5.4	10.1	8.1	8.8	18.3	16.0	16.8	17.5	15.0	16.6
7	6.7	5.3	5.8	10.2	8.4	9.3	17.8	16.3	17.3	16.3	14.7	15.5
8	7.3	5.3	6.0	10.5	9.2	9.7	18.2	17.2	17.6	17.5	15.9	16.7
9	7.8	5.4	6.8	9.4	8.5	8.9	18.0	16.7	17.4	19.0	16.8	17.5
10	8.2	5.9	7.6	9.2	8.2	8.8	17.2	15.4	16.4	19.1	17.5	18.3
11	7.4	5.9	6.5	10.1	8.7	9.2	17.3	15.7	16.4	21.1	18.1	18.8
12	6.9	5.3	6.0	10.6	8.1	9.2	16.7	15.7	16.2	21.7	19.2	20.2
13	7.1	5.9	6.5	10.8	9.3	9.9	16.4	15.0	15.7	20.4	19.5	19.8
14	7.8	6.6	7.2	10.5	9.6	10.0	15.2	13.9	14.6	21.0	19.3	20.0
15	8.9	7.5	7.9	10.6	9.2	9.7	14.2	12.7	13.4	23.4	20.4	21.4
16	10.9	8.3	9.5	10.3	9.1	9.8	12.9	11.8	12.4	22.4	20.7	21.6
17	11.2	9.6	10.4	9.1	7.9	8.7	13.2	11.6	12.3	21.6	20.9	21.3
18	10.4	8.8	9.5	8.7	7.8	8.2	14.9	12.2	13.3	21.9	20.5	21.2
19	9.6	8.2	8.6	9.1	8.4	8.7	16.0	13.2	14.6	22.0	21.3	21.7
20	9.6	8.3	9.0	11.6	9.0	9.7	17.1	14.1	15.4	22.0	21.1	21.4
21	10.9	9.0	9.6	11.7	9.7	10.6	17.1	14.4	15.9	21.3	20.5	20.9
22	10.3	9.7	9.9	11.6	10.1	10.8	17.0	14.4	16.1	21.6	20.1	20.9
23	10.0	9.5	9.7	13.4	11.1	11.8	16.4	13.7	15.1	22.4	20.4	21.4
24	9.7	9.3	9.5	13.6	11.9	12.6	16.1	14.2	15.0	23.2	21.2	21.9
25	9.5	8.6	9.1	13.4	12.3	12.8	15.3	12.8	14.5	21.6	20.5	21.1
26	9.3	8.1	8.5	13.8	12.7	13.2	15.7	14.7	15.1	22.2	20.1	20.7
27	8.8	8.2	8.4	14.0	13.2	13.7	17.8	15.4	16.2	22.8	20.7	21.6
28	8.8	8.2	8.5	14.9	13.6	14.3	17.8	15.6	16.5	23.9	21.4	22.2
29	---	---	---	15.4	13.8	14.6	17.0	15.9	16.5	24.6	22.2	23.2
30	---	---	---	15.9	14.6	15.2	18.0	16.8	17.2	24.0	22.5	23.3
31	---	---	---	16.5	14.8	15.7	---	---	---	22.9	22.1	22.5
MONTH	11.2	3.7	7.4	16.5	6.7	10.4	18.3	11.6	15.6	24.6	14.7	20.1

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.2	21.4	21.8	29.6	26.9	27.8	29.0	28.0	28.7	30.6	28.3	29.1
2	21.9	21.1	21.4	29.6	27.5	28.2	29.3	28.1	28.6	30.8	28.4	29.2
3	23.2	21.7	22.4	28.3	27.3	27.9	30.6	28.3	29.1	29.5	28.3	28.8
4	24.4	22.3	23.2	29.0	27.3	28.2	30.8	29.0	29.8	28.7	27.4	28.3
5	25.6	22.8	24.0	29.4	28.0	28.5	30.6	29.1	29.7	27.9	26.5	27.1
6	26.3	23.5	24.7	30.5	27.9	29.1	30.5	29.0	29.6	26.8	25.6	26.3
7	26.6	22.3	24.8	31.6	29.0	29.9	30.0	29.3	29.7	26.5	25.8	26.1
8	27.0	23.6	25.3	30.2	28.4	29.4	29.3	27.9	28.6	26.4	25.9	26.1
9	25.3	23.0	24.5	30.2	28.8	29.4	29.4	28.3	28.7	26.5	25.9	26.2
10	26.3	23.3	24.7	30.9	28.8	29.6	29.5	28.5	28.9	26.1	24.9	25.5
11	25.3	23.8	24.6	30.4	29.2	29.7	30.1	28.4	29.2	---	---	---
12	26.9	23.8	25.4	30.8	29.1	29.8	31.1	29.3	29.9	---	---	---
13	27.8	25.1	26.7	30.0	28.6	29.3	31.2	29.5	30.2	---	---	---
14	28.2	26.1	27.1	28.8	28.0	28.4	31.2	29.4	30.1	---	---	---
15	29.4	26.7	27.9	30.1	27.7	28.6	32.6	29.4	30.3	---	---	---
16	29.9	26.4	28.1	30.2	28.4	29.2	31.6	30.1	30.7	---	---	---
17	28.7	26.9	27.6	30.1	28.8	29.4	31.6	30.0	30.4	---	---	---
18	27.4	26.3	27.1	30.6	28.8	29.4	30.5	29.6	30.0	---	---	---
19	26.5	25.4	25.9	30.9	28.9	29.7	31.9	29.5	30.3	---	---	---
20	25.4	24.5	25.0	31.0	29.1	29.9	31.9	29.8	30.5	---	---	---
21	26.0	24.3	25.0	31.0	29.4	29.9	32.4	30.3	31.1	27.6	26.6	27.1
22	26.3	24.2	25.2	30.7	29.3	29.8	31.4	30.1	30.7	27.8	26.5	27.1
23	26.3	25.3	25.7	31.2	28.9	29.8	31.2	29.9	30.5	28.5	26.4	27.2
24	26.4	25.3	25.9	30.0	29.1	29.5	30.1	28.9	29.5	28.1	27.0	27.4
25	26.4	25.4	25.9	31.4	28.6	29.6	29.0	27.8	28.4	27.3	26.6	26.9
26	27.3	25.4	26.0	31.4	29.3	30.2	28.1	27.4	27.7	27.5	26.2	26.8
27	27.8	26.3	26.9	32.7	30.2	31.2	28.0	27.2	27.6	27.0	26.3	26.6
28	27.8	27.0	27.4	32.0	30.6	31.3	28.2	27.4	27.9	26.6	25.8	26.2
29	27.4	26.2	26.7	30.9	29.5	30.1	28.7	27.9	28.2	27.0	25.8	26.2
30	28.2	25.8	26.7	30.2	29.3	29.7	29.6	27.9	28.5	26.3	24.9	25.7
31	---	---	---	29.6	28.9	29.3	29.6	28.3	28.9	---	---	---
MONTH	29.9	21.1	25.5	32.7	26.9	29.4	32.6	27.2	29.4	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	24.7	23.9	24.2	19.1	18.1	18.4	13.7	12.6	13.2	6.5	6.1	6.3
2	24.4	24.0	24.2	19.1	18.1	18.4	13.2	12.2	12.8	6.5	6.0	6.2
3	25.0	24.3	24.4	20.2	18.0	18.8	12.7	12.0	12.4	6.8	6.2	6.4
4	25.0	24.3	24.5	19.5	18.4	19.0	12.7	11.9	12.5	6.8	6.1	6.4
5	24.6	24.3	24.4	19.4	18.4	18.9	12.8	12.1	12.5	7.6	6.2	6.5
6	24.4	23.1	24.0	18.7	17.3	18.2	12.8	12.4	12.7	8.4	6.2	6.8
7	23.6	22.3	22.8	18.0	16.1	17.5	13.4	12.6	12.8	9.9	6.9	8.3
8	23.1	21.9	22.4	17.5	16.6	17.1	13.7	13.0	13.3	10.4	7.7	8.9
9	22.8	22.0	22.4	16.7	15.5	16.0	13.6	13.0	13.3	10.1	9.4	9.7
10	23.0	22.1	22.6	16.0	14.1	14.8	15.2	13.0	13.9	10.8	9.7	10.0
11	22.8	21.9	22.4	15.4	13.9	14.7	14.7	13.5	14.2	10.9	9.7	10.1
12	22.4	21.7	22.1	15.7	15.1	15.4	13.7	12.4	13.1	10.4	9.9	10.2
13	22.4	21.8	22.1	15.6	14.0	15.2	13.5	12.1	12.6	12.2	10.0	10.7
14	22.3	21.6	22.0	14.6	12.5	13.7	12.2	10.4	11.5	13.4	11.3	12.3
15	22.1	20.8	21.8	13.0	12.2	12.7	11.2	8.6	9.9	12.1	10.3	11.4
16	21.1	19.9	20.5	12.8	12.0	12.5	11.3	8.3	9.6	10.7	9.3	10.1
17	20.6	19.1	19.7	12.8	12.1	12.5	11.2	9.3	10.5	10.1	8.2	9.2
18	20.9	20.1	20.5	13.1	12.3	12.8	11.2	9.1	10.0	8.7	6.7	7.6
19	21.0	20.0	20.7	13.1	12.7	12.9	10.9	9.0	9.8	8.6	5.4	6.6
20	21.2	20.9	21.0	13.1	12.9	13.0	10.0	6.5	8.1	7.2	4.7	6.0
21	21.2	20.7	20.9	13.2	12.9	13.0	7.6	6.5	7.1	7.2	5.4	6.2
22	20.8	19.8	20.2	13.3	13.0	13.2	8.0	6.9	7.5	6.0	4.8	5.3
23	19.9	18.8	19.1	13.7	13.2	13.4	9.6	7.5	8.3	5.5	3.7	4.7
24	18.9	17.8	18.5	14.5	13.2	13.6	9.5	8.3	8.7	4.4	3.0	3.5
25	18.9	17.9	18.4	15.2	13.2	14.4	8.3	7.0	7.8	4.3	2.9	3.7
26	18.5	17.1	17.6	14.6	12.6	13.6	7.1	5.6	6.5	4.4	3.8	4.0
27	18.0	17.4	17.6	13.9	12.6	13.3	6.8	5.4	5.9	4.6	4.0	4.2
28	18.4	17.5	17.9	13.7	12.9	13.2	6.3	4.2	5.5	4.2	3.0	3.5
29	18.2	17.7	17.9	13.2	12.7	13.0	6.0	4.3	5.2	3.9	2.5	3.2
30	18.8	17.6	18.1	13.2	12.4	12.8	6.2	5.2	6.0	3.8	3.4	3.6
31	18.8	18.2	18.4	---	---	---	6.3	6.0	6.2	4.0	3.5	3.8
MONTH	25.0	17.1	21.1	20.2	12.0	14.9	15.2	4.2	10.1	13.4	2.5	6.9
		FEBRUARY			MARCH			APRIL			MAY	
1	4.3	3.8	4.0	8.9	8.2	8.6	16.5	14.3	14.8	17.7	17.1	17.5
2	4.5	3.8	4.1	8.4	7.2	7.8	17.4	14.3	16.0	18.1	17.1	17.3
3	4.5	4.0	4.3	7.8	7.0	7.4	15.9	13.8	15.3	19.2	17.6	18.1
4	4.7	4.2	4.5	8.4	7.4	7.7	15.8	14.6	15.1	18.6	17.7	18.2
5	4.9	4.5	4.6	8.6	7.6	8.1	16.2	14.8	15.3	18.3	17.4	17.9
6	6.1	4.8	5.2	9.3	7.8	8.4	16.3	15.0	15.5	17.4	14.9	16.5
7	5.6	4.9	5.2	10.1	8.0	8.9	16.5	15.0	15.4	16.1	14.9	15.4
8	5.8	4.8	5.3	10.2	8.8	9.5	17.3	15.2	16.4	17.0	15.8	16.4
9	6.0	4.9	5.2	9.2	7.9	8.8	17.9	16.7	17.2	17.8	16.4	17.0
10	7.8	5.2	6.4	9.3	8.3	8.8	16.9	15.7	16.3	19.1	16.9	18.0
11	7.3	5.6	6.2	9.7	8.9	9.2	16.9	16.0	16.4	18.9	17.6	18.4
12	6.3	5.5	5.9	10.4	8.2	9.3	16.3	15.7	16.0	20.5	16.8	18.7
13	6.8	5.8	6.1	10.7	9.4	9.8	16.0	14.9	15.6	20.0	19.1	19.7
14	7.7	6.0	6.8	10.2	9.9	10.1	15.0	13.9	14.5	20.6	18.7	19.6
15	7.6	6.4	7.1	10.1	9.3	9.6	14.1	12.6	13.3	21.2	18.9	19.8
16	8.8	6.2	7.3	10.4	9.2	9.9	13.3	11.8	12.4	21.7	18.8	20.5
17	10.4	7.1	9.0	9.2	8.2	8.8	12.7	11.9	12.3	21.5	21.0	21.2
18	9.7	8.5	9.1	8.8	7.8	8.3	12.8	11.8	12.3	21.8	20.6	21.2
19	9.1	7.3	8.4	9.1	8.7	8.9	12.5	11.5	11.8	21.9	20.8	21.4
20	9.2	8.0	8.6	9.5	8.9	9.1	12.3	11.3	11.6	21.7	20.4	21.2
21	9.9	7.9	9.1	10.1	8.8	9.3	14.8	11.4	12.4	21.3	20.5	20.9
22	10.0	8.0	9.6	11.6	8.9	10.4	15.2	11.9	12.8	21.4	20.1	20.8
23	9.9	9.3	9.6	13.5	9.8	11.6	15.6	12.3	13.9	22.1	20.4	21.1
24	9.6	9.2	9.4	13.5	12.1	12.5	15.8	14.1	14.8	22.1	21.0	21.4
25	9.4	8.6	9.0	13.2	12.3	12.8	15.0	12.8	14.4	21.5	20.6	21.1
26	8.8	8.1	8.4	13.8	12.8	13.3	15.0	14.6	14.7	20.8	20.2	20.5
27	8.8	8.1	8.4	13.9	13.3	13.6	16.8	14.6	15.4	21.8	20.6	21.1
28	8.8	8.1	8.4	15.0	13.2	14.2	16.4	15.4	15.8	22.8	20.9	21.6
29	---	---	---	15.3	13.8	14.5	16.8	15.2	16.1	23.6	20.8	21.8
30	---	---	---	15.7	14.2	14.6	17.8	15.5	16.6	22.6	20.7	21.5
31	---	---	---	16.8	14.8	15.4	---	---	---	22.7	21.5	22.2
MONTH	10.4	3.8	7.0	16.8	7.0	10.3	17.9	11.3	14.7	23.6	14.9	19.6

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.0	21.4	21.7	27.5	25.8	26.5	29.0	28.0	28.7	29.4	28.2	28.6
2	21.8	21.1	21.4	27.8	25.9	26.6	28.8	28.3	28.6	28.9	28.4	28.7
3	22.3	21.4	21.7	28.1	25.8	27.3	28.9	28.4	28.6	29.2	27.9	28.6
4	22.3	21.1	21.6	28.3	26.8	27.7	29.5	28.6	28.9	28.7	27.4	28.2
5	22.1	21.1	21.3	28.7	27.3	28.1	29.5	28.8	29.0	27.9	26.4	27.0
6	22.0	21.0	21.2	29.5	27.7	28.4	29.5	28.7	29.1	26.6	25.6	26.1
7	22.0	21.0	21.3	29.7	27.5	28.5	29.6	28.7	29.2	26.3	25.7	26.0
8	22.3	21.0	21.3	29.8	27.5	28.9	29.2	28.1	28.6	26.4	25.5	26.0
9	22.0	21.2	21.4	29.5	28.5	29.0	28.8	28.6	28.7	26.4	25.9	26.2
10	23.1	21.2	21.8	29.5	28.8	29.0	28.9	28.6	28.7	26.1	24.9	25.5
11	24.5	21.3	22.8	29.3	28.8	28.9	29.0	28.5	28.7	---	---	---
12	24.9	22.5	23.7	29.4	28.7	29.0	29.1	28.6	28.8	---	---	---
13	25.0	21.3	23.1	29.5	28.6	29.0	29.5	28.7	29.0	---	---	---
14	25.6	21.3	23.5	28.7	28.0	28.4	29.4	28.9	29.0	---	---	---
15	25.0	21.6	22.8	29.2	27.6	28.2	29.3	28.8	29.0	---	---	---
16	27.3	22.2	24.2	29.2	28.3	28.6	29.6	28.8	29.1	---	---	---
17	27.5	24.5	26.3	29.6	28.2	28.8	30.2	28.8	29.3	---	---	---
18	27.3	24.6	26.4	29.2	28.2	28.8	30.1	29.3	29.6	---	---	---
19	26.5	25.4	25.9	29.6	28.2	29.0	30.0	29.2	29.6	---	---	---
20	25.5	24.5	25.0	30.4	28.6	29.4	30.0	29.0	29.6	---	---	---
21	25.0	24.2	24.5	30.1	28.7	29.4	30.4	29.1	29.7	27.1	26.2	26.7
22	25.8	23.9	24.6	30.0	28.7	29.3	30.4	29.0	29.7	27.6	26.5	26.9
23	26.1	24.1	25.2	30.3	29.0	29.3	30.2	29.0	29.5	27.9	26.5	27.1
24	26.4	25.2	25.8	29.9	29.0	29.4	29.9	29.0	29.4	27.8	26.5	27.1
25	26.4	25.3	25.8	29.8	28.9	29.2	29.4	27.9	28.6	27.3	26.6	26.9
26	26.6	25.4	25.7	29.8	29.0	29.4	28.1	27.4	27.8	27.3	26.5	26.8
27	26.6	25.7	26.0	30.1	28.9	29.4	27.9	27.0	27.5	26.9	26.3	26.7
28	27.0	25.8	26.2	31.4	28.9	29.7	28.2	27.4	27.8	26.7	25.9	26.3
29	26.6	25.8	26.2	30.5	29.7	29.9	28.6	27.9	28.2	26.8	25.8	26.1
30	26.9	25.8	26.1	29.9	29.4	29.6	28.7	28.1	28.3	26.4	25.0	25.8
31	---	---	---	29.6	29.0	29.3	29.2	28.0	28.5	---	---	---
MONTH	27.5	21.0	23.8	31.4	25.8	28.8	30.4	27.0	28.9	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	5.9	7.1	10.1	6.6	9.0	11.2	8.5	9.7	15.7	11.7	14.2
2	7.9	5.9	6.8	10.0	5.4	8.4	10.7	8.9	9.6	14.8	10.3	12.6
3	8.3	6.6	7.4	8.2	6.8	7.5	10.6	9.0	9.9	15.0	10.3	13.2
4	8.8	5.9	7.2	8.2	6.1	7.0	14.2	10.0	11.5	15.4	10.3	13.6
5	8.8	6.6	7.6	8.1	6.3	7.2	15.1	11.6	12.9	14.1	12.0	13.0
6	8.2	6.1	7.0	8.5	6.9	7.6	14.2	11.3	12.6	13.0	10.2	11.3
7	8.8	6.0	7.4	8.8	7.3	8.0	14.1	7.4	11.7	11.8	9.9	10.7
8	8.8	6.9	7.9	8.6	7.9	8.2	12.1	8.5	9.6	11.2	10.2	10.5
9	9.5	6.9	8.0	8.5	7.9	8.2	12.4	7.8	8.9	10.8	10.0	10.3
10	9.2	7.5	8.4	8.9	8.0	8.5	10.4	7.4	8.6	10.8	9.5	10.1
11	9.7	7.8	8.6	9.0	7.9	8.6	10.5	8.4	9.0	10.9	9.1	10.2
12	10.5	8.2	9.1	8.8	7.7	8.2	10.7	8.5	9.4	10.7	9.2	10.2
13	9.5	7.1	8.4	8.5	7.8	8.2	11.3	9.5	10.1	10.7	8.6	9.3
14	8.8	7.4	8.1	9.0	8.0	8.5	11.4	9.6	10.2	9.9	8.2	8.5
15	9.1	7.4	8.4	9.6	8.6	9.1	10.8	9.5	10.2	9.1	8.2	8.6
16	9.7	6.5	8.1	11.1	9.0	9.8	12.8	10.4	11.4	9.8	8.7	9.3
17	10.9	8.2	9.4	11.3	9.8	10.4	13.4	11.1	12.1	10.3	9.2	9.8
18	10.7	8.3	9.4	12.3	9.8	11.2	12.9	10.5	11.9	11.2	9.9	10.5
19	9.6	5.8	8.1	12.8	8.8	10.6	13.8	11.6	12.8	12.1	10.3	11.2
20	9.6	6.8	8.4	11.4	7.7	9.1	12.4	9.1	10.3	12.3	10.8	11.6
21	9.1	8.1	8.7	11.2	8.1	9.7	10.8	9.9	10.3	12.1	11.6	11.8
22	9.2	8.2	8.7	11.2	7.9	9.9	11.5	10.0	10.7	12.1	11.3	11.8
23	10.2	8.7	9.4	10.9	9.4	10.3	11.4	9.7	10.5	11.7	10.8	11.2
24	10.8	8.7	9.5	10.8	8.8	9.9	10.4	10.0	10.2	12.4	11.2	11.7
25	11.2	7.3	9.4	9.7	5.7	8.2	10.6	9.8	10.2	12.6	11.3	12.0
26	10.4	8.2	9.4	9.6	8.2	8.9	10.9	10.3	10.6	12.9	11.7	12.3
27	11.9	7.6	9.3	10.7	8.9	9.4	11.9	10.6	11.1	12.9	12.1	12.4
28	11.1	6.5	9.0	10.3	9.2	9.5	12.4	10.8	11.6	13.0	12.1	12.5
29	9.2	4.8	7.7	10.7	9.0	9.7	12.8	11.5	12.0	13.2	12.4	12.8
30	10.1	7.8	9.0	11.5	9.9	10.5	13.7	11.7	12.6	13.4	12.4	12.8
31	10.5	7.3	8.7	---	---	---	16.0	11.2	13.0	13.0	12.3	12.7
MONTH	11.9	4.8	8.4	12.8	5.4	9.0	16.0	7.4	10.8	15.7	8.2	11.4
		FEBRUARY			MARCH			APRIL			MAY	
1	13.7	12.4	12.8	10.8	10.2	10.5	10.9	8.4	10	7.8	5.2	6.7
2	13.4	12.6	12.9	11.0	10.3	10.6	9.3	7.2	8.6	7.7	4.8	6.0
3	13.2	12.3	12.8	11.2	10.5	10.9	9.2	8.3	8.8	7.5	5.2	6.2
4	12.7	12.3	12.4	13.0	11.0	12.0	10.1	8.7	9.3	5.7	4.6	5.1
5	12.7	12.1	12.3	12.5	11.5	11.9	11.1	8.9	9.9	6.6	3.8	5.3
6	13.7	12.3	13.0	12.8	11.5	12.1	11.2	9.3	10.3	7.8	5.8	6.9
7	13.8	12.9	13.3	12.2	10.6	11.7	10.1	7.9	9.6	8.4	7.0	7.6
8	14.1	12.3	13.4	11.1	9.4	10	10.8	8.1	9.1	9.6	7.5	8.6
9	13.9	12.2	13.4	11.3	9.3	10.0	10.2	8.9	9.4	9.8	8.0	9.0
10	13.4	11.9	12.7	11.4	9.8	10.7	10.4	8.5	9.6	---	---	---
11	11.9	11.3	11.6	11.7	10.1	11.0	10.8	9.4	10.0	---	---	---
12	12.4	11.4	11.9	11.1	9.9	10.5	10.2	8.4	9.4	---	---	---
13	13.0	11.8	12.5	11.5	10.1	10.7	9.0	7.9	8.5	---	---	---
14	12.7	11.9	12.3	10.6	10.1	10.3	9.2	8.1	8.6	---	---	---
15	13.4	11.9	12.6	12.8	10.1	11.0	9.6	8.9	9.2	---	---	---
16	13.7	12.7	13.2	12.2	10.1	10.9	10.0	9.2	9.6	---	---	---
17	13.2	12.2	12.7	10.6	9.9	10.2	10.6	9.5	10	---	---	---
18	12.5	11.7	12.1	11.9	10.4	11.1	12.4	10.0	11.0	---	---	---
19	13.1	11.5	12.3	11.6	10.6	11.2	12.3	10.1	10.9	8.5	6.2	7.5
20	12.9	11.9	12.4	13.6	11.2	12.1	11.9	9.2	10.6	7.6	4.3	6.7
21	12.3	11.4	11.9	12.9	10.9	12.2	11.3	8.4	9.9	7.4	5.8	6.6
22	12.0	11.1	11.6	12.3	10.9	11.3	10.0	8.4	9.4	9.3	6.2	8.1
23	11.8	11.0	11.5	11.1	9.6	10.2	9.0	7.2	8.1	9.3	6.7	7.9
24	11.2	10.4	10.9	10.8	9.5	10.2	9.1	8.0	8.6	9.7	5.6	7.7
25	11.0	10.3	10.6	10.2	9.5	10.0	9.5	8.1	8.8	8.4	6.2	7.5
26	12.2	10.7	11.3	10.7	9.7	10.1	9.8	7.7	8.8	9.4	6.5	7.7
27	11.9	10.7	11.4	10.6	9.7	10.1	11.6	8.3	9.6	9.7	6.8	8.2
28	10.7	10.1	10.4	10.3	9.1	9.9	10.1	8.2	9.1	8.8	6.9	7.8
29	---	---	---	10.7	9.2	10.1	9.9	7.7	8.6	9.4	6.5	8.0
30	---	---	---	11.2	9.4	10.4	8.2	5.9	7.3	8.6	5.5	7.7
31	---	---	---	10.8	9.2	10.1	---	---	---	8.9	6.0	7.2
MONTH	14.1	10.1	12.2	13.6	9.1	10.8	12.4	5.9	9.4	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.2	5.7	7.2	8.8	6.2	7.3	8.2	4.8	6.3	9.1	4.5	6.2
2	8.0	5.4	6.5	9.2	6.5	7.7	9.1	6.3	7.4	9.2	5.4	6.5
3	9.8	6.1	8.0	8.0	6.0	7.1	11.5	5.4	8.2	7.4	5.5	6.5
4	10.8	6.1	8.4	7.9	5.4	6.7	10.4	6.8	8.4	6.7	5.4	6.2
5	10.7	6.4	8.8	7.0	5.8	6.4	9.1	6.0	7.8	6.9	6.0	6.4
6	9.2	5.3	7.5	7.7	4.5	6.4	8.5	2.8	5.9	7.2	6.4	6.8
7	8.7	2.5	6.5	8.2	6.0	7.0	7.3	3.1	5.5	7.5	6.5	7.0
8	8.5	4.5	6.8	7.2	3.6	6.2	5.0	0.1	1.8	7.7	6.4	7.0
9	6.0	2.8	4.6	8.3	5.9	6.9	6.3	0.5	3.5	7.8	6.8	7.3
10	5.8	1.8	3.8	9.4	5.1	7.6	10.4	3.3	6.8	7.4	6.8	7.1
11	5.9	1.6	3.7	9.3	6.3	8.0	9.8	4.3	7.4	---	---	---
12	6.3	0.2	3.9	8.5	6.0	7.7	9.5	2.7	6.8	---	---	---
13	6.5	2.1	5.2	8.1	3.0	6.2	7.8	2.6	5.5	---	---	---
14	6.6	4.4	5.7	7.9	3.0	5.2	9.0	1.8	4.9	---	---	---
15	6.7	4.5	5.7	9.4	3.4	6.6	8.0	2.9	6.1	---	---	---
16	7.3	3.1	5.4	10.0	5.8	7.6	8.2	2.9	6.3	---	---	---
17	6.9	3.5	5.7	9.8	4.1	7.5	9.1	5.0	6.8	---	---	---
18	7.6	5.7	6.7	10.3	4.3	7.3	8.6	5.5	7.3	---	---	---
19	6.9	5.6	6.3	8.4	5.8	7.2	10.4	6.1	7.9	---	---	---
20	8.1	6.3	7.1	8.7	6.0	7.1	10.0	4.0	7.3	---	---	---
21	8.8	7.0	7.7	8.8	4.7	6.8	8.5	5.0	7.3	8.7	6.3	7.5
22	9.4	7.4	8.0	7.9	4.1	6.2	10.3	4.7	6.9	9.5	6.9	7.6
23	8.2	7.0	7.7	10.4	3.8	6.7	7.7	1.8	6.1	10.6	6.3	8.0
24	7.6	6.6	7.1	7.7	4.7	6.6	7.0	5.0	6.1	8.6	7.0	7.8
25	7.1	5.2	6.4	10.3	4.5	6.8	6.5	4.7	5.8	7.7	6.3	6.9
26	7.7	5.2	6.4	8.8	4.3	6.8	7.0	5.2	6.1	7.8	6.0	6.7
27	7.9	6.3	7.3	11.3	4.7	7.8	6.8	4.4	5.6	7.3	5.1	6.5
28	8.5	6.3	7.5	8.0	5.7	7.0	6.8	4.4	5.4	6.9	4.5	6.1
29	8.4	4.9	6.6	6.4	3.5	4.8	6.4	4.3	5.2	8.3	5.2	6.3
30	9.8	5.7	6.9	5.9	3.9	4.9	8.0	4.6	5.9	7.0	5.5	6.5
31	---	---	---	7.3	4.3	6.2	7.9	5.4	6.1	---	---	---
MONTH	10.8	0.2	6.5	11.3	3.0	6.8	11.5	0.1	6.3	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	4.8	6.0	5.9	2.1	3.6	11.0	6.2	9.0	10.2	8.1	8.8
2	5.8	3.6	4.7	6.1	2.3	3.3	11.2	8.5	9.8	9.5	7.9	8.7
3	5.2	2.1	3.6	7.6	1.6	3.8	10.7	8.6	10.1	8.9	7.9	8.5
4	4.9	0.9	2.8	7.3	3.3	6.0	10.9	8.6	9.4	9.0	7.8	8.3
5	6.5	0.6	2.1	7.9	6.2	7.0	10.2	7.3	8.5	9.5	7.4	8.5
6	7.1	1.8	5.2	8.3	5.3	7.2	10.4	6.6	7.8	10.6	8.3	9.3
7	7.4	2.0	5.2	8.6	7.0	7.8	9.3	6.0	7.1	11.5	8.5	9.7
8	7.2	3.6	5.7	8.3	6.7	7.8	9.5	7.3	8.3	11.0	9.0	10.2
9	6.0	2.0	4.6	8.4	7.2	8.0	7.9	6.2	7.1	10.8	10.0	10.3
10	7.2	1.4	4.3	8.8	6.8	8.2	10.0	5.6	7.8	10.6	9.5	10.1
11	6.8	2.3	5.1	8.8	7.2	8.3	11.0	6.8	9.0	11.2	8.8	9.7
12	5.7	3.0	4.0	8.5	5.9	7.2	11.1	8.7	9.8	10.5	8.8	9.5
13	5.4	2.0	3.5	8.1	7.1	7.8	11.4	7.8	10.2	9.9	8.8	9.4
14	5.2	1.1	3.0	8.8	7.6	8.3	11.2	9.5	10.6	9.5	8.6	9.1
15	5.1	0.9	2.6	8.9	7.9	8.6	11.0	8.4	9.6	9.6	8.7	9.1
16	5.4	2.8	4.1	9.5	7.8	8.7	10.3	6.7	8.8	10.2	9.2	9.6
17	5.6	1.4	3.8	10.2	7.7	8.9	9.5	5.8	7.5	10.6	9.1	9.9
18	2.9	0.0	1.3	10.4	7.0	7.9	11.1	5.8	8.6	11.2	9.2	10.3
19	4.5	0.0	1.4	8.2	7.1	7.6	11.9	5.1	9.1	11.8	8.3	10.4
20	2.0	0.0	0.8	8.2	6.8	7.2	10.5	6.6	8.5	12.1	8.8	10.7
21	4.5	1.6	2.9	8.3	6.7	7.4	8.5	6.2	7.4	12.2	8.9	10.7
22	5.8	2.8	4.5	9.1	6.6	7.6	8.4	5.9	7.2	12.2	10.1	11.5
23	5.8	2.2	4.4	9.6	6.5	7.8	8.7	5.9	7.1	11.8	10.7	11.2
24	6.3	1.6	3.5	9.6	5.9	7.4	8.8	6.9	7.9	12.2	11.0	11.6
25	4.3	0.2	1.8	9.5	5.6	8.1	8.7	7.6	8.1	12.3	10.9	11.5
26	5.7	0.5	3.3	9.6	8.5	9.1	10.4	8.4	9.2	12.2	10.6	11.4
27	6.2	1.4	3.9	10.0	8.2	9.0	10.7	9.4	10.1	12.6	10.1	12.0
28	5.3	1.1	2.9	10.2	7.9	9.3	11.4	9.1	10.2	13.0	11.9	12.4
29	7.4	0.8	4.5	10.2	8.5	9.6	11.7	9.2	10.8	12.8	11.3	12.1
30	9.4	1.7	5.5	11.1	7.4	9.5	11.7	8.8	9.7	13.2	11.5	12.5
31	7.8	1.8	4.1	---	---	---	10.3	8.5	9.0	13.1	11.6	12.6
MONTH	9.4	0.0	3.7	11.1	1.6	7.6	11.9	5.1	8.8	13.2	7.4	10.3
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	12.1	12.8	10.3	9.5	9.9	10.4	5.8	7.7	7.4	5.2	6.6
2	---	---	---	10.7	9.8	10.2	10.3	7.6	9.2	6.5	4.5	5.4
3	---	---	---	10.9	10.2	10.6	10.1	9.4	9.8	7.5	4.6	6.2
4	---	---	---	12.0	9.9	10.4	10.2	8.6	9.3	6.6	4.9	5.8
5	---	---	---	11.5	8.0	10.8	9.7	5.8	7.5	6.7	4.7	6.1
6	---	---	---	12.2	9.8	11.2	10.1	5.0	7.1	7.6	6.6	7.1
7	---	---	---	11.3	8.3	10.5	7.0	4.6	5.8	7.6	6.4	7.1
8	---	---	---	10.6	8.8	9.5	8.2	4.9	6.3	8.7	6.0	7.5
9	---	---	---	10.6	9.0	9.4	9.6	7.2	8.6	9.0	5.4	7.4
10	---	---	---	11.5	9.1	10.5	9.8	7.3	8.8	---	---	---
11	---	---	---	12.0	10.0	11.0	9.6	5.7	8.0	---	---	---
12	---	---	---	11.3	10.0	10.7	9.4	7.1	8.6	---	---	---
13	---	---	---	11.7	10.0	10.8	8.7	6.8	8.1	---	---	---
14	---	---	---	11.0	10.6	10.8	9.0	7.8	8.3	---	---	---
15	---	---	---	11.9	10.1	10.9	9.3	8.6	8.9	---	---	---
16	---	---	---	11.8	8.9	11.0	9.7	8.5	9.2	---	---	---
17	---	---	---	11.1	10.3	10.8	10.0	7.9	9.1	---	---	---
18	---	---	---	11.6	10.1	10.9	10.2	6.6	8.6	---	---	---
19	11.9	9.1	11.2	12.0	10.0	10.9	8.2	5.8	6.9	8.4	3.2	6.1
20	12.0	9.3	11.1	11.9	9.5	11.0	7.2	6.2	6.7	5.9	1.2	4.2
21	11.9	8.5	10.7	12.0	8.7	10.4	8.9	5.6	6.8	6.5	3.9	5.2
22	11.1	7.5	10.5	12.1	8.7	11.3	8.5	5.7	6.5	7.5	3.5	5.6
23	11.1	9.6	10.7	11.4	8.8	10.6	8.0	5.5	6.9	6.6	2.0	5.0
24	10.4	8.1	9.2	11.5	10.2	10.6	8.9	6.8	7.9	7.2	2.4	4.9
25	9.2	7.6	8.4	11.0	10.2	10.7	8.8	7.6	8.2	6.4	1.8	4.8
26	8.9	6.5	8.0	11.5	10.1	10.9	8.6	4.0	7.0	6.7	2.9	4.9
27	10.5	6.1	8.8	11.1	10.1	10.7	9.5	3.9	7.1	---	---	---
28	10.2	8.8	9.7	11.3	8.3	10.4	8.9	6.4	8.1	---	---	---
29	---	---	---	11.6	10.3	10.8	8.9	3.3	7.4	---	---	---
30	---	---	---	10.9	9.0	10	7.9	3.5	6.2	---	---	---
31	---	---	---	11.6	7.9	10.2	---	---	---	---	---	---
MONTH	---	---	---	12.2	7.9	10.6	10.4	3.3	7.8	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	6.8	0.6	3.4	7.9	4.6	6.1	6.2	3.1	5.0
2	---	---	---	5.5	0.7	2.6	7.2	2.8	5.7	5.8	2.7	4.3
3	---	---	---	7.2	0.0	4.9	7.7	1.6	5.5	7.0	1.1	5.2
4	---	---	---	6.6	1.8	4.9	8.7	0.8	4.2	6.5	4.9	6.0
5	---	---	---	6.2	1.3	5.0	6.1	0.6	2.7	6.9	5.9	6.4
6	---	---	---	6.6	2.0	5.0	5.0	0.1	2.0	7.2	6.3	6.7
7	2.8	0.8	1.4	6.6	0.3	3.7	5.5	0.0	1.8	7.5	6.5	6.9
8	2.7	0.3	0.9	7.0	0.3	4.5	4.5	0.0	0.8	7.3	5.6	6.7
9	1.5	0.1	0.7	7.6	1.7	4.3	2.1	0.0	0.4	7.6	5.3	6.9
10	1.2	0.1	0.3	7.6	1.7	3.7	5.6	0.0	1.1	7.2	5.6	6.8
11	4.2	0.1	0.8	4.3	0.7	2.2	2.7	0.0	0.9	---	---	---
12	3.9	0.1	1.5	4.4	0.0	1.6	1.0	0.0	0.1	---	---	---
13	2.0	0.1	0.5	6.7	0.3	3.8	0.7	0.0	0.1	---	---	---
14	2.0	0.1	0.8	6.6	2.4	3.5	1.6	0.0	0.1	---	---	---
15	1.7	0.1	0.5	6.0	0.7	3.9	2.5	0.0	0.2	---	---	---
16	4.6	0.3	1.5	6.4	0.6	3.4	1.0	0.0	0.2	---	---	---
17	6.0	1.1	3.9	7.6	0.4	3.8	6.2	0.0	0.9	---	---	---
18	6.9	1.7	4.4	6.4	0.3	3.9	5.8	0.1	1.4	---	---	---
19	6.7	4.2	5.9	6.4	0.4	3.7	5.3	0.2	2.9	---	---	---
20	7.5	6.0	6.7	7.3	0.8	4.8	4.2	0.1	2.1	---	---	---
21	7.7	4.4	6.7	6.4	0.5	3.7	4.1	0.1	1.6	7.1	4.0	5.7
22	7.3	3.6	5.9	6.2	0.1	3.3	3.9	0.1	1.2	8.6	4.1	6.5
23	7.2	3.4	5.8	7.2	0.3	2.6	3.1	0.1	0.7	10.1	4.7	6.7
24	7.0	5.5	6.3	6.8	0.4	3.7	6.6	0.0	2.3	7.4	2.6	5.9
25	6.5	3.6	5.7	7.2	0.1	4.3	6.6	2.6	4.9	7.0	4.5	6.4
26	6.6	4.5	5.4	6.6	0.5	3.9	7.0	5.3	6.0	6.7	2.6	5.4
27	6.1	3.9	4.8	5.8	0.1	2.2	6.7	3.4	5.5	6.5	3.2	5.7
28	5.8	2.5	4.0	6.9	0.1	1.9	6.6	2.1	4.9	6.8	3.1	5.7
29	6.4	2.1	3.8	5.5	2.1	3.8	6.2	4.1	5.0	7.4	4.7	5.8
30	5.7	1.7	3.7	5.0	3.0	4.1	5.7	0.7	4.5	7.0	5.3	6.5
31	---	---	---	6.7	1.5	5.7	6.4	1.7	4.7	---	---	---
MONTH	---	---	---	7.6	0.0	3.7	8.7	0.0	2.6	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	101	70	85	112	71	100	107	82	92	129	96	117
2	96	70	81	111	59	93	102	84	91	124	85	106
3	101	79	89	91	75	83	100	85	92	129	85	112
4	108	71	88	90	66	76	133	93	106	134	87	120
5	108	79	92	88	68	77	141	107	119	128	105	116
6	98	72	83	91	73	80	133	105	117	118	88	99
7	102	69	86	93	75	84	136	71	111	105	86	94
8	102	80	92	89	82	85	121	82	93	101	88	92
9	111	80	93	87	80	83	122	76	87	95	88	91
10	108	86	97	88	80	84	103	72	85	100	83	91
11	113	91	100	90	78	85	103	82	88	99	81	92
12	121	93	104	88	77	82	102	81	90	97	83	92
13	108	81	96	84	78	82	105	89	95	99	79	84
14	100	84	92	86	78	82	105	89	94	94	75	80
15	103	84	95	91	80	85	95	85	90	82	76	79
16	108	73	90	103	83	91	112	88	98	86	78	82
17	120	89	102	105	90	97	116	96	104	89	81	85
18	118	90	103	116	92	105	113	91	104	91	83	86
19	106	65	90	120	83	99	121	101	111	94	84	88
20	108	76	95	108	73	87	107	79	87	98	86	92
21	102	91	97	108	77	93	89	81	84	97	92	94
22	101	90	96	108	75	95	96	83	89	96	90	93
23	110	93	102	106	91	100	98	84	90	92	84	87
24	114	92	101	107	87	97	90	85	87	94	85	88
25	117	78	98	97	55	81	89	83	86	97	86	91
26	108	85	97	92	79	85	89	85	86	99	89	94
27	125	79	97	101	84	89	94	84	88	100	93	95
28	117	68	94	99	87	91	97	86	90	98	92	94
29	97	50	80	102	85	92	100	90	94	98	92	95
30	110	82	96	109	93	99	108	93	99	102	93	97
31	116	79	94	---	---	---	131	90	105	99	93	96
MONTH	125	50	94	120	55	89	141	71	95	134	75	94
		FEBRUARY			MARCH			APRIL			MAY	
1	105	94	98	93	87	90	114	85	103	82	54	70
2	104	96	99	94	86	89	96	71	88	81	50	64
3	103	95	99	94	87	91	93	84	88	80	55	66
4	98	96	97	113	90	101	102	86	93	61	49	54
5	101	94	96	106	97	101	114	89	100	70	40	56
6	111	96	103	112	98	104	119	95	106	80	61	71
7	112	103	107	107	94	102	105	81	100	86	70	77
8	115	97	108	97	82	88	115	84	95	101	76	89
9	115	97	110	97	81	87	108	92	98	106	83	94
10	113	96	106	99	85	92	108	86	98	---	---	---
11	99	91	94	104	88	96	113	95	102	---	---	---
12	101	90	96	99	86	91	105	85	96	---	---	---
13	107	95	101	103	88	95	92	80	86	---	---	---
14	106	98	102	95	89	92	90	81	85	---	---	---
15	116	99	106	115	88	97	91	85	88	---	---	---
16	122	109	116	108	88	97	94	86	90	---	---	---
17	119	108	113	91	85	88	101	89	93	---	---	---
18	111	101	107	102	88	95	123	93	106	---	---	---
19	112	99	105	100	92	97	122	98	108	98	70	86
20	111	103	108	123	97	107	123	90	106	87	48	76
21	109	100	105	118	96	110	115	82	100	83	65	74
22	107	99	103	113	97	102	102	82	96	106	69	91
23	105	96	101	103	90	94	91	70	81	108	75	90
24	99	91	95	104	89	96	91	79	85	114	63	88
25	96	90	92	98	89	95	95	79	86	94	70	85
26	107	91	97	103	92	96	99	76	87	107	72	86
27	102	91	97	102	93	98	122	83	98	113	76	93
28	92	86	89	102	88	97	107	83	94	103	78	90
29	---	---	---	107	90	99	102	80	89	112	75	94
30	---	---	---	113	94	104	86	61	76	102	64	91
31	---	---	---	110	91	102	---	---	---	103	70	83
MONTH	122	86	102	123	81	97	123	61	94	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, TOP—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	94	65	83	114	78	94	107	62	82	121	58	82
2	92	61	74	121	83	100	119	81	96	124	70	86
3	115	71	92	103	77	91	154	70	107	97	71	84
4	130	71	98	103	68	87	139	89	112	86	69	80
5	131	76	105	92	74	83	121	78	102	87	75	81
6	112	63	91	103	58	83	113	37	78	90	79	84
7	107	29	79	112	78	93	97	41	72	93	80	86
8	107	53	84	95	46	82	66	1	24	96	79	87
9	73	33	55	110	77	91	82	6	45	97	84	90
10	72	21	46	127	66	100	136	43	89	91	84	87
11	72	19	45	124	82	105	128	56	98	---	---	---
12	78	2	48	112	79	101	127	36	91	---	---	---
13	83	26	65	108	39	82	105	34	73	---	---	---
14	85	55	72	102	39	67	120	24	66	---	---	---
15	88	56	73	130	44	87	111	38	81	---	---	---
16	96	39	70	133	75	100	110	39	84	---	---	---
17	88	44	73	130	54	98	124	66	92	---	---	---
18	96	72	84	138	56	96	115	73	97	---	---	---
19	85	69	78	112	76	96	142	80	105	---	---	---
20	99	77	86	117	79	94	134	53	98	---	---	---
21	109	84	94	118	62	90	117	67	99	111	79	95
22	117	89	98	106	54	83	138	63	93	121	86	96
23	102	86	94	140	50	89	104	24	82	136	78	101
24	95	81	88	102	62	87	93	66	80	110	88	99
25	88	64	79	140	59	90	84	61	74	98	79	87
26	97	64	79	119	56	90	89	66	77	99	75	84
27	101	78	92	152	63	106	86	56	71	92	64	81
28	109	80	96	110	76	95	87	57	69	86	56	76
29	105	61	83	86	46	64	82	55	68	105	64	78
30	126	71	86	79	51	65	105	59	76	91	68	80
31	---	---	---	96	57	82	104	70	80	---	---	---
MONTH	131	2	80	152	39	89	154	1	83	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	84	57	71	64	22	39	104	59	86	83	66	71
2	69	43	56	66	25	36	107	81	93	76	64	70
3	62	25	43	84	17	42	100	81	94	73	64	69
4	60	11	33	80	35	65	102	81	88	73	63	67
5	78	7	25	85	67	76	95	69	80	80	60	69
6	85	22	62	88	56	77	98	62	74	90	68	77
7	86	24	61	91	74	82	89	57	67	102	70	83
8	84	42	66	86	70	81	92	70	79	98	76	88
9	69	23	53	85	74	81	76	59	68	95	88	91
10	84	16	50	87	69	81	99	54	76	96	85	90
11	79	27	59	87	71	82	108	65	88	101	78	87
12	65	34	47	85	59	73	106	83	94	94	78	85
13	62	23	40	81	71	78	108	75	96	91	78	85
14	59	13	34	84	75	80	103	88	98	88	79	85
15	56	10	30	84	75	81	99	74	85	87	80	84
16	60	31	46	89	74	82	90	61	77	90	82	85
17	61	16	41	95	73	84	84	53	67	91	81	86
18	32	0	15	97	67	75	97	53	76	92	78	86
19	50	0	16	77	68	72	104	46	80	94	71	85
20	23	0	9	78	65	68	91	56	72	98	73	86
21	51	18	33	79	64	70	70	52	61	97	74	86
22	64	31	50	87	63	73	70	50	60	96	81	91
23	63	24	47	93	62	75	75	50	61	93	83	88
24	66	17	37	94	56	71	76	61	68	91	84	87
25	46	2	19	95	54	79	73	64	68	92	84	87
26	59	5	34	92	82	87	83	69	75	94	81	88
27	65	15	41	95	79	86	85	76	81	98	78	92
28	56	12	30	97	76	88	90	74	81	97	90	94
29	78	8	48	97	81	91	92	74	85	95	86	91
30	100	18	59	105	71	90	92	71	78	100	87	94
31	84	19	43	---	---	---	83	69	73	100	88	96
MONTH	100	0	42	105	17	75	108	46	78	102	60	85
		FEBRUARY			MARCH			APRIL			MAY	
1	102	93	98	89	82	85	107	57	76	78	54	69
2	---	---	---	91	83	86	106	76	94	68	47	56
3	---	---	---	91	85	88	102	94	98	80	48	66
4	---	---	---	103	84	87	101	85	92	71	52	61
5	---	---	---	99	68	91	99	58	75	71	50	65
6	---	---	---	107	84	96	103	50	71	77	68	73
7	---	---	---	100	70	90	72	46	59	76	65	71
8	---	---	---	93	76	84	86	49	65	90	61	76
9	---	---	---	92	77	81	101	75	90	95	56	77
10	---	---	---	100	78	91	101	75	90	---	---	---
11	---	---	---	106	87	96	99	58	82	---	---	---
12	---	---	---	101	87	93	96	72	87	---	---	---
13	---	---	---	105	88	95	88	69	82	---	---	---
14	---	---	---	98	94	96	88	77	82	---	---	---
15	---	---	---	106	89	96	88	82	85	---	---	---
16	---	---	---	105	79	97	92	80	87	---	---	---
17	---	---	---	96	89	93	94	75	85	---	---	---
18	---	---	---	98	87	93	97	61	80	---	---	---
19	102	76	96	104	86	95	77	54	64	96	36	69
20	105	79	95	104	82	95	67	57	62	67	13	47
21	103	72	93	107	75	91	88	52	64	73	44	59
22	99	64	92	111	75	102	85	53	62	85	39	62
23	98	84	94	109	78	98	81	51	67	74	22	56
24	91	71	81	111	95	100	88	67	78	83	27	55
25	81	66	72	105	97	102	87	74	81	72	20	54
26	76	56	68	111	97	104	85	39	69	75	32	54
27	90	52	75	108	97	103	98	38	71	---	---	---
28	88	75	83	112	79	102	91	64	82	---	---	---
29	---	---	---	116	101	107	91	33	76	---	---	---
30	---	---	---	110	88	98	82	35	64	---	---	---
31	---	---	---	119	78	102	---	---	---	---	---	---
MONTH	---	---	---	119	68	95	107	33	77	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION, BOTTOM—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	86	7	42	103	60	79	81	40	65
2	---	---	---	70	9	33	93	36	74	76	35	56
3	---	---	---	92	0	62	100	21	71	91	14	68
4	---	---	---	85	23	63	115	10	55	84	63	77
5	---	---	---	80	16	64	80	8	35	87	74	80
6	---	---	---	87	26	65	66	1	26	90	78	83
7	32	9	16	87	4	47	73	0	23	93	80	85
8	31	3	11	93	4	58	59	0	10	91	69	83
9	17	1	8	100	22	56	27	0	5	95	66	86
10	14	1	4	100	22	48	73	0	14	88	68	84
11	51	1	10	56	9	29	35	0	12	---	---	---
12	47	1	18	58	0	21	13	0	2	---	---	---
13	24	1	6	88	4	50	9	0	1	---	---	---
14	25	1	10	85	31	45	21	0	1	---	---	---
15	20	1	6	82	9	51	33	0	2	---	---	---
16	58	3	18	83	8	44	13	0	2	---	---	---
17	76	13	48	100	5	49	83	0	12	---	---	---
18	87	21	54	84	4	50	77	1	19	---	---	---
19	83	52	73	84	5	48	70	3	38	---	---	---
20	90	73	81	97	10	64	55	1	27	---	---	---
21	93	53	81	85	6	49	55	1	21	89	50	72
22	90	43	72	82	1	44	52	1	16	109	51	81
23	89	41	71	96	4	35	41	1	9	129	59	85
24	87	67	78	90	5	48	87	0	30	94	32	75
25	81	44	70	95	1	57	85	34	63	89	56	81
26	83	55	66	87	7	51	90	67	77	85	32	68
27	76	48	60	77	1	29	85	43	70	82	40	71
28	73	31	50	94	1	26	85	27	63	85	39	71
29	80	26	47	73	28	50	80	53	65	93	58	72
30	71	21	46	66	40	54	74	9	57	89	65	79
31	---	---	---	88	20	74	84	22	61	---	---	---
MONTH	---	---	---	100	0	49	115	0	34	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC

LOCATION.--Lat 34°44'18", long 76°42'25", Carteret County, Hydrologic Unit 03020106, at private dock on west side of Newport River near Crab Point Thorofare, near southern end of Secondary Road 1177, approximately 1.2 mi north of U.S. Highway 70 at Morehead City.

PERIOD OF RECORD.--June 2005 to February 2006 (discontinued).

PERIOD OF DAILY RECORD.--
SALINITY: June 2005 to February 2006.
pH: June 2005 to February 2006.
WATER TEMPERATURE: June 2005 to February 2006.
DISSOLVED OXYGEN: June 2005 to February 2006.
DISSOLVED OXYGEN, PERCENT SATURATION: June 2005 to February 2006.
TURBIDITY: June 2005 to February 2006.
CHLOROPHYLL: June 2005 to February 2006.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from June 2005 to February 2006.

REMARKS.--Station operated in cooperation with the National Oceanic and Atmospheric Administration (NOAA). The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm of Hg. The chlorophyll data have not been calibrated to actual chlorophyll values determined from samples sent to the National Water Quality Laboratory.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY, ppt	35.4, August 17, 2005	4.4, October 10, 2005
pH, standard units	8.6, December 24, 2005	7.1, October 9, 10, 2005
WATER TEMPERATURE , °C	33.5, August 21, 22, 2005	4.4, December 22, 2005
DISSOLVED OXYGEN , mg/L	12.1, December 22, 2005	3.0, August 12, 2005
DISSOLVED OXYGEN, PERCENT SATURATION, %	180, August 3, 2005	46, August 12, 2005
TURBIDITY, FNU	280, September 15, 2005	0.3, July 28, 2005
CHLOROPHYLL, total, fluorometric, 650-700 nm, in-situ sensor, ug/L	62.5, August 3, 2005	0.9, July 27, 2005

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	31.8	23.9	28.2	---	---	---	34.4	30.2	32.3
2	---	---	---	32.4	25.1	29.0	33.0	21.4	26.4	35.0	30.0	32.2
3	---	---	---	31.7	23.5	27.6	33.2	18.4	26.5	34.7	30.2	32.5
4	---	---	---	32.0	24.7	27.7	32.3	20.0	26.5	35.0	30.7	32.6
5	---	---	---	32.2	24.4	28.0	32.2	21.9	27.4	34.5	28.5	31.6
6	---	---	---	32.2	25.3	28.9	32.1	24.9	28.4	32.5	22.8	27.1
7	---	---	---	32.5	26.2	29.2	31.7	25.4	28.4	31.7	19.6	24.4
8	---	---	---	32.5	27.9	30.3	31.9	25.6	28.7	31.4	20.0	24.7
9	---	---	---	32.4	25.3	29.2	32.3	25.8	29.4	30.6	20.8	24.8
10	---	---	---	32.4	27.5	29.6	32.6	26.6	29.9	28.7	21.3	23.5
11	---	---	---	32.2	27.8	29.8	33.2	27.7	30.6	22.6	16.4	18.6
12	---	---	---	32.3	27.8	30.3	33.2	27.9	30.6	---	---	---
13	---	---	---	32.5	25.5	29.8	33.4	27.7	30.7	32.2	17.5	23.2
14	---	---	---	31.9	25.9	28.8	33.6	28.2	31.2	33.6	21.2	28.2
15	---	---	---	32.0	25.5	28.4	35.0	29.0	31.9	33.0	14.1	21.7
16	---	---	---	32.5	23.2	27.6	35.1	29.8	32.4	33.7	13.1	23.0
17	---	---	---	32.6	23.3	28.1	35.4	29.7	32.4	33.4	16.9	24.6
18	---	---	---	32.9	24.2	28.7	35.1	29.7	32.4	32.7	19.1	26.1
19	---	---	---	33.3	25.5	29.2	35.1	28.2	32.1	32.6	17.1	25.3
20	---	---	---	33.3	27.0	30.0	35.0	29.7	32.6	32.5	17.7	26.3
21	---	---	---	33.5	26.8	30.1	34.9	30.9	32.7	32.8	20.0	26.1
22	---	---	---	34.1	28.5	31.2	34.9	31.3	33.0	32.6	20.1	26.6
23	33.9	26.5	29.6	33.8	25.7	30.4	34.9	31.0	32.7	32.8	20.8	27.3
24	33.5	26.0	29.3	33.6	26.9	30.1	34.2	30.7	32.2	32.6	22.3	27.1
25	33.4	25.2	28.8	33.7	27.3	30.6	34.2	30.3	31.9	31.4	21.7	25.6
26	33.0	25.6	29.0	33.9	29.0	31.2	33.7	26.8	29.9	31.9	21.8	26.8
27	32.9	25.3	29.0	34.1	27.1	31.1	33.5	26.1	29.4	31.9	23.5	27.8
28	32.5	25.8	29.2	33.6	28.4	30.9	33.5	26.4	30.0	31.4	23.3	27.0
29	32.3	25.4	28.8	---	---	---	34.2	27.3	30.7	33.0	24.7	29.4
30	31.8	21.1	27.8	---	---	---	34.8	28.7	32.0	32.2	24.2	28.3
31	---	---	---	---	---	---	34.7	30.7	32.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	32.5	25.5	28.6	31.4	18.3	25.1	---	---	---	32.7	23.0	28.0
2	31.5	24.5	27.6	31.7	19.9	25.9	---	---	---	32.7	24.9	29.1
3	31.6	24.0	27.4	31.9	19.9	25.8	---	---	---	32.7	24.3	29.1
4	32.0	23.3	27.1	31.7	21.2	26.7	---	---	---	33.0	22.8	27.6
5	32.8	23.0	27.8	31.5	23.5	26.7	31.9	22.5	27.4	32.9	25.1	29.5
6	33.0	24.1	28.6	31.6	23.2	27.2	---	---	---	32.4	24.0	28.4
7	32.2	23.3	27.6	31.4	23.8	27.3	---	---	---	32.5	22.9	27.4
8	32.0	19.0	26.2	32.0	23.0	27.8	30.6	21.5	25.1	31.5	23.1	27.1
9	29.2	7.3	17.9	31.9	24.7	28.7	32.6	19.4	26.2	31.6	24.7	27.3
10	30.4	4.4	13.0	31.9	25.3	29.1	31.6	19.1	25.8	31.4	21.0	25.3
11	29.4	5.5	13.6	32.7	26.4	29.4	32.8	21.7	27.2	31.7	19.7	25.0
12	29.6	5.2	15.6	32.7	26.8	29.5	32.6	22.8	27.9	32.0	19.5	25.5
13	33.0	9.1	20.4	32.2	26.8	29.5	32.8	23.2	27.5	31.8	19.3	26.2
14	33.0	13.0	23.3	---	---	---	33.0	22.5	27.2	32.3	23.4	28.9
15	32.8	17.8	26.4	32.5	27.7	30.1	32.8	22.3	27.3	32.5	18.6	26.9
16	33.0	22.0	27.6	32.5	28.5	30.4	32.5	19.5	26.3	32.9	24.8	29.6
17	32.8	21.6	26.9	32.5	28.3	30.1	31.8	17.1	23.7	32.5	27.1	29.8
18	32.5	22.3	27.3	32.6	25.7	29.2	30.5	17.4	21.5	32.8	29.0	30.7
19	32.5	23.2	27.2	---	---	---	29.5	12.7	19.5	31.1	28.2	29.3
20	32.6	24.1	27.8	31.6	21.0	26.1	29.3	11.1	19.2	31.7	25.7	28.7
21	32.6	24.5	27.9	31.7	21.3	26.6	28.5	11.3	18.1	31.7	26.5	28.6
22	31.9	23.9	27.7	31.0	19.5	26.5	27.8	11.4	17.3	31.0	23.3	27.0
23	---	---	---	31.9	20.1	26.9	29.4	13.5	19.6	31.4	22.1	26.1
24	29.9	18.1	23.8	31.7	22.6	28.1	28.5	16.1	21.5	31.1	22.0	26.1
25	30.5	14.9	22.8	29.8	19.9	24.0	29.8	20.5	24.9	31.6	20.5	26.6
26	30.6	16.6	23.3	---	---	---	30.6	21.2	26.2	32.5	21.7	26.9
27	30.0	16.9	22.2	---	---	---	31.4	19.9	25.3	32.9	22.0	27.5
28	28.7	14.9	20.5	31.3	18.8	25.3	31.9	19.0	26.1	32.8	23.5	28.5
29	29.3	15.6	21.8	---	---	---	31.9	22.9	28.1	33.0	25.7	30.1
30	29.7	15.4	22.6	---	---	---	32.5	21.1	27.4	33.5	25.7	30.7
31	31.3	17.5	24.4	---	---	---	32.5	22.5	28.9	33.3	26.5	30.5
MONTH	---	---	---	---	---	---	---	---	---	33.5	18.6	28.0
		FEBRUARY			MARCH			APRIL			MAY	
1	33.0	26.4	30.3	---	---	---	---	---	---	---	---	---
2	33.0	27.2	30.7	---	---	---	---	---	---	---	---	---
3	33.0	29.1	31.1	---	---	---	---	---	---	---	---	---
4	33.0	29.8	31.1	---	---	---	---	---	---	---	---	---
5	33.0	29.5	30.9	---	---	---	---	---	---	---	---	---
6	32.5	27.9	29.9	---	---	---	---	---	---	---	---	---
7	31.9	26.7	29.1	---	---	---	---	---	---	---	---	---
8	31.9	25.2	28.4	---	---	---	---	---	---	---	---	---
9	31.9	22.3	27.1	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.0	7.8	7.9	---	---	---	8.1	7.8	7.9
2	---	---	---	8.0	7.8	7.9	8.1	7.7	8.0	8.0	7.8	7.9
3	---	---	---	8.0	7.8	7.9	8.4	7.8	8.0	8.0	7.8	7.9
4	---	---	---	8.0	7.8	7.9	8.2	7.9	8.0	8.0	7.8	7.9
5	---	---	---	8.0	7.8	7.9	8.1	7.8	8.0	8.1	7.9	8.0
6	---	---	---	8.0	7.8	7.9	8.1	7.8	8.0	8.1	7.9	8.0
7	---	---	---	8.0	7.8	7.9	8.1	7.8	8.0	8.1	7.9	8.0
8	---	---	---	8.1	7.8	8.0	8.1	7.8	8.0	8.1	7.9	8.0
9	---	---	---	8.0	7.8	8.0	8.1	7.8	8.0	8.1	7.8	8.0
10	---	---	---	8.0	7.8	7.9	8.1	7.8	8.0	8.1	7.9	8.0
11	---	---	---	8.0	7.8	8.0	8.1	7.7	8.0	8.0	7.9	8.0
12	---	---	---	8.0	7.7	7.9	8.1	7.7	8.0	---	---	---
13	---	---	---	8.0	7.8	7.9	8.1	7.8	8.0	8.2	7.8	8.0
14	---	---	---	8.0	7.7	7.9	8.1	7.7	8.0	8.2	7.9	8.1
15	---	---	---	8.0	7.7	7.9	8.1	7.7	7.9	8.2	7.7	8.0
16	---	---	---	8.1	7.7	7.9	8.0	7.7	7.9	8.2	7.6	7.9
17	---	---	---	8.0	7.7	7.9	8.0	7.7	7.9	8.2	7.6	7.9
18	---	---	---	8.0	7.7	7.9	8.0	7.7	7.9	8.2	7.6	7.9
19	---	---	---	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.5	7.8
20	---	---	---	8.0	7.8	7.9	8.0	7.8	7.9	8.0	7.4	7.8
21	---	---	---	8.0	7.8	7.9	8.0	7.7	7.9	8.0	7.6	7.8
22	---	---	---	8.1	7.8	8.0	8.0	7.7	7.9	8.0	7.5	7.8
23	8.1	7.9	8.0	8.1	7.8	8.0	8.0	7.7	7.8	8.0	7.5	7.8
24	8.1	7.8	8.0	8.1	7.8	8.0	8.0	7.6	7.8	8.0	7.6	7.8
25	8.1	7.8	8.0	8.1	7.8	8.0	8.0	7.7	7.9	8.0	7.6	7.8
26	8.0	7.8	8.0	8.1	7.8	7.9	8.1	7.9	8.0	8.0	7.6	7.8
27	8.0	7.8	8.0	8.1	7.7	7.9	8.1	7.9	8.0	8.0	7.7	7.9
28	8.1	7.8	7.9	8.1	7.7	7.9	8.1	7.8	7.9	8.1	7.8	7.9
29	8.0	7.7	7.9	---	---	---	8.1	7.8	8.0	8.1	7.9	8.0
30	8.1	7.8	7.9	---	---	---	8.1	7.8	8.0	8.1	7.9	8.0
31	---	---	---	---	---	---	8.1	7.8	8.0	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.9	8.0	---	---	---	---	---	---	8.2	8.1	8.2
2	8.1	8.0	8.0	---	---	---	---	---	---	8.2	8.1	8.2
3	8.1	8.0	8.1	---	---	---	---	---	---	8.2	8.1	8.2
4	8.2	8.0	8.1	---	---	---	---	---	---	8.2	8.0	8.1
5	8.1	7.9	8.1	---	---	---	8.3	8.2	8.3	8.2	7.9	8.1
6	8.1	7.9	8.0	---	---	---	---	---	---	8.0	7.9	8.0
7	8.1	7.8	8.0	---	---	---	---	---	---	8.0	7.8	8.0
8	8.1	7.8	8.0	---	---	---	8.5	8.2	8.3	8.0	7.9	8.0
9	8.1	7.1	7.7	---	---	---	8.5	8.3	8.4	8.0	7.9	8.0
10	8.1	7.1	7.5	---	---	---	8.5	8.3	8.4	8.0	7.9	8.0
11	8.1	7.2	7.5	8.2	8.0	8.1	8.5	8.4	8.4	8.1	7.9	8.0
12	8.0	7.2	7.6	8.1	8.0	8.1	8.5	8.4	8.4	8.1	8.0	8.0
13	8.1	7.4	7.8	8.1	8.0	8.1	8.5	8.3	8.4	8.1	8.0	8.0
14	8.1	7.5	7.8	---	---	---	8.5	8.3	8.4	8.0	7.9	8.0
15	8.1	7.6	7.9	8.1	8.0	8.1	8.4	8.3	8.3	8.0	7.8	8.0
16	8.1	7.7	7.9	8.1	8.0	8.1	8.3	8.2	8.3	8.0	7.9	8.0
17	8.1	7.7	7.9	8.2	8.0	8.1	8.3	8.1	8.2	8.0	7.9	8.0
18	8.1	7.7	7.9	8.2	8.1	8.2	8.4	8.2	8.2	8.0	7.9	8.0
19	8.1	7.8	8.0	---	---	---	8.4	8.2	8.3	8.0	7.9	8.0
20	8.1	7.8	8.0	8.2	8.2	8.2	8.4	8.0	8.3	8.0	7.9	8.0
21	8.1	7.9	8.0	8.2	8.1	8.2	8.4	8.0	8.3	8.0	7.9	8.0
22	8.1	7.8	8.0	8.2	8.1	8.2	8.4	8.1	8.3	8.0	7.9	7.9
23	---	---	---	8.2	8.1	8.2	8.5	8.3	8.4	8.0	7.9	8.0
24	8.1	7.8	7.9	8.2	8.1	8.2	8.6	8.4	8.5	8.0	7.9	8.0
25	8.1	7.8	8.0	8.2	8.0	8.1	8.4	8.3	8.4	8.0	7.9	8.0
26	---	---	---	---	---	---	8.4	8.2	8.3	8.0	7.9	8.0
27	---	---	---	---	---	---	8.3	8.2	8.2	8.0	7.9	8.0
28	---	---	---	8.2	8.1	8.2	8.3	8.2	8.3	8.0	8.0	8.0
29	---	---	---	---	---	---	8.3	8.2	8.2	8.0	8.0	8.0
30	---	---	---	---	---	---	8.2	8.2	8.2	8.0	8.0	8.0
31	---	---	---	---	---	---	8.2	8.2	8.2	8.0	7.9	8.0
MONTH	---	---	---	---	---	---	---	---	---	8.2	7.8	8.0
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
2	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
3	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
4	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
5	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
6	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
7	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
8	8.0	7.9	8.0	---	---	---	---	---	---	---	---	---
9	8.1	8.0	8.0	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.3	26.8	27.9	---	---	---	30.6	28.4	29.4
2	---	---	---	29.5	27.3	28.3	30.8	27.3	28.4	31.2	28.7	29.6
3	---	---	---	30.6	27.4	28.6	32.3	27.6	29.0	31.7	28.5	29.5
4	---	---	---	30.6	27.2	28.5	33.3	28.3	29.9	29.0	26.9	28.2
5	---	---	---	31.6	27.6	29.2	32.4	29.1	30.2	27.1	25.8	26.7
6	---	---	---	32.2	28.0	29.5	32.5	29.2	30.4	26.7	25.2	25.9
7	---	---	---	32.7	28.5	30.1	30.3	28.8	29.6	26.9	24.4	25.7
8	---	---	---	31.6	28.4	29.7	28.9	27.7	28.4	27.6	24.6	26.1
9	---	---	---	32.2	28.8	30.0	30.5	27.6	28.9	27.5	24.8	26.2
10	---	---	---	32.2	28.8	30.0	31.6	28.0	29.5	26.6	24.0	25.1
11	---	---	---	30.9	29.1	29.8	31.9	28.5	30.0	24.8	23.7	24.1
12	---	---	---	32.1	28.6	29.8	32.3	29.2	30.5	---	---	---
13	---	---	---	29.5	27.3	28.6	32.1	29.3	30.6	25.8	24.7	25.4
14	---	---	---	28.1	27.1	27.6	32.1	29.6	30.7	25.6	24.7	25.2
15	---	---	---	29.4	26.6	27.8	32.0	29.8	30.8	25.9	24.2	24.6
16	---	---	---	30.4	27.9	28.8	32.3	29.8	30.7	26.6	24.5	25.6
17	---	---	---	30.0	28.1	28.9	31.4	29.2	30.0	28.7	25.9	27.0
18	---	---	---	29.9	28.0	28.7	31.9	28.8	29.7	29.7	26.9	27.8
19	---	---	---	30.6	27.8	28.8	32.8	28.9	30.1	28.9	27.4	28.0
20	---	---	---	31.7	27.8	29.1	32.3	29.4	30.4	29.8	27.1	28.2
21	---	---	---	31.9	27.4	29.1	33.5	29.7	31.0	29.9	27.0	28.2
22	---	---	---	31.4	27.5	28.9	33.5	30.1	31.4	29.7	26.6	28.1
23	28.7	24.5	25.9	32.1	27.9	29.3	31.3	30.0	30.6	29.5	26.7	28.2
24	29.2	24.6	26.4	30.9	28.1	29.1	30.5	29.0	29.7	28.8	26.7	27.9
25	26.9	25.2	26.0	31.0	27.5	28.8	29.1	26.6	28.0	28.4	26.0	27.3
26	28.9	25.1	26.5	31.3	28.3	29.4	28.4	25.7	27.2	27.5	25.6	26.8
27	30.7	25.9	27.9	32.6	29.2	30.3	27.7	26.2	27.0	27.2	25.8	26.7
28	28.9	27.3	27.9	33.2	29.9	31.0	28.9	26.4	27.6	26.5	24.4	25.7
29	27.8	26.0	26.6	---	---	---	29.0	27.5	28.3	27.3	25.3	26.2
30	28.5	25.7	26.8	---	---	---	30.5	28.1	28.9	27.2	24.2	25.5
31	---	---	---	---	---	---	30.9	28.5	29.4	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26.1	23.8	24.7	18.3	15.9	17.4	---	---	---	12.5	10.8	11.3
2	25.9	23.9	24.6	18.6	16.8	17.9	---	---	---	12.0	10.7	11.4
3	25.8	24.0	24.9	18.9	16.1	17.8	---	---	---	13.4	11.6	12.5
4	26.5	24.1	25.2	19.3	16.5	18.3	---	---	---	11.9	11.0	11.4
5	26.7	25.0	25.7	19.6	17.5	18.8	14.7	13.7	14.1	12.5	10.7	11.5
6	25.9	25.1	25.5	20.5	18.0	19.4	---	---	---	11.8	9.7	10.8
7	25.4	24.5	24.8	21.1	18.5	19.8	---	---	---	10.9	8.0	9.5
8	25.7	24.4	25.0	20.7	18.0	19.6	11.7	7.8	9.5	10.0	7.7	9.3
9	27.4	24.5	25.6	20.6	18.9	19.9	11.9	9.5	11.0	12.4	9.3	10.5
10	25.9	24.0	24.8	20.2	17.2	19.2	11.5	7.7	10.0	12.9	10.4	11.5
11	26.6	23.5	24.8	18.2	14.3	16.6	11.9	9.5	10.7	13.1	11.3	12.1
12	25.1	22.6	24.0	17.3	14.6	16.5	11.3	9.3	10.5	14.7	11.7	12.9
13	24.3	21.3	22.8	18.0	15.7	17.1	11.3	7.5	9.8	14.9	12.2	13.3
14	23.9	20.9	22.3	---	---	---	10.2	6.8	8.3	14.3	10.7	13.0
15	23.7	21.5	22.6	20.1	18.4	19.1	10.4	6.8	9.0	10.8	7.8	9.7
16	23.3	21.7	22.5	20.7	18.9	19.7	11.8	10.1	10.9	10.6	8.0	9.8
17	22.8	20.8	21.8	20.1	15.0	18.3	10.8	9.2	9.8	12.3	9.7	10.9
18	22.6	19.7	21.5	16.9	13.2	15.1	10.3	8.4	9.1	13.3	10.7	12.4
19	23.1	20.5	22.1	---	---	---	10.2	7.6	9.0	12.1	9.5	10.8
20	23.7	21.2	22.6	15.3	12.2	13.9	10.1	6.8	8.7	12.4	9.1	11.2
21	24.6	21.8	23.3	16.5	13.9	15.4	9.7	5.4	7.7	14.1	11.1	12.6
22	24.7	22.4	23.7	16.5	13.1	14.7	9.4	4.4	7.0	13.5	11.4	12.3
23	---	---	---	14.4	9.8	12.5	9.8	5.2	7.7	14.1	11.5	12.6
24	21.8	19.1	20.3	14.0	10.6	12.7	9.9	6.2	8.3	13.9	12.5	13.3
25	20.5	16.0	18.6	13.3	8.9	10.8	10.9	9.0	10	13.2	10.1	11.8
26	18.9	14.6	16.9	---	---	---	10.6	9.4	10.0	11.1	7.6	9.5
27	18.8	14.6	16.8	---	---	---	9.8	8.0	9.1	9.7	6.9	8.7
28	18.1	14.0	16.0	15.3	12.4	13.8	10.3	8.7	9.6	10.2	8.0	9.3
29	17.2	13.5	15.2	---	---	---	12.1	10.1	10.9	11.9	9.4	10.5
30	17.3	13.9	15.7	---	---	---	11.7	10.0	10.6	12.7	10.9	11.6
31	17.9	14.8	16.7	---	---	---	12.0	9.9	10.9	12.1	10.5	11.4
MONTH	---	---	---	---	---	---	---	---	---	14.9	6.9	11.3
		FEBRUARY			MARCH			APRIL			MAY	
1	11.7	9.5	10.6	---	---	---	---	---	---	---	---	---
2	11.9	9.4	10.9	---	---	---	---	---	---	---	---	---
3	14.2	11.5	12.7	---	---	---	---	---	---	---	---	---
4	14.3	11.9	13.3	---	---	---	---	---	---	---	---	---
5	12.8	9.8	11.4	---	---	---	---	---	---	---	---	---
6	10.7	7.9	9.6	---	---	---	---	---	---	---	---	---
7	10.2	8.5	9.4	---	---	---	---	---	---	---	---	---
8	10.0	7.5	9.2	---	---	---	---	---	---	---	---	---
9	9.6	7.5	8.8	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.6	5.2	6.4	---	---	---	7.5	4.2	5.6
2	---	---	---	7.1	4.8	6.1	8.0	4.6	6.1	7.4	4.2	5.7
3	---	---	---	7.4	5.3	6.4	11.9	5.0	6.6	7.9	4.6	5.9
4	---	---	---	8.0	5.2	6.4	9.3	5.0	6.4	7.3	4.6	5.8
5	---	---	---	8.2	5.2	6.6	7.7	4.4	5.9	7.4	5.0	6.3
6	---	---	---	8.3	5.4	6.8	7.4	4.5	5.9	8.0	6.0	7.0
7	---	---	---	8.5	5.3	6.9	7.3	4.4	5.9	9.1	6.5	7.5
8	---	---	---	8.4	5.5	7.2	6.9	4.1	5.9	8.7	6.1	7.4
9	---	---	---	8.3	5.5	7.0	6.9	4.0	6.0	---	---	---
10	---	---	---	8.2	5.2	7.0	7.1	3.9	6.0	---	---	---
11	---	---	---	7.8	5.2	6.8	7.2	3.2	6.0	---	---	---
12	---	---	---	8.4	4.8	7.0	7.1	3.0	5.8	---	---	---
13	---	---	---	7.5	5.3	6.7	7.0	3.6	5.5	7.4	5.6	6.3
14	---	---	---	7.8	5.4	6.8	6.9	3.1	5.4	6.9	6.0	6.4
15	---	---	---	8.7	5.8	7.4	6.7	3.2	5.3	6.9	5.8	6.5
16	---	---	---	8.7	5.7	7.3	6.1	3.5	5.0	6.5	4.8	6.0
17	---	---	---	7.6	5.4	6.6	6.4	3.7	5.1	6.1	4.6	5.4
18	---	---	---	7.2	5.3	6.4	7.7	4.3	5.7	6.5	4.3	5.7
19	---	---	---	7.5	5.3	6.4	7.8	4.7	5.8	6.5	4.7	5.7
20	---	---	---	7.2	5.0	6.2	6.6	4.0	5.5	6.5	4.1	5.7
21	---	---	---	7.0	4.9	6.0	6.5	3.6	5.3	7.0	4.5	5.9
22	---	---	---	7.2	4.9	6.2	6.7	3.6	5.5	6.6	4.6	5.8
23	7.9	5.4	6.9	7.3	4.4	6.1	6.0	3.8	5.0	6.7	4.4	5.8
24	8.0	5.3	6.8	7.1	4.3	6.1	6.3	3.5	5.2	6.4	4.5	5.5
25	7.0	5.4	6.5	6.7	4.6	6.0	7.1	4.4	5.9	7.1	5.2	6.0
26	7.9	5.4	6.7	6.7	4.1	5.7	7.3	5.1	6.3	6.6	4.9	5.9
27	7.9	5.1	6.7	6.8	3.9	5.6	6.6	4.8	5.8	6.8	4.8	5.9
28	7.1	5.0	6.3	6.8	3.9	5.5	6.8	4.5	5.7	7.0	5.3	6.0
29	6.7	5.4	6.2	---	---	---	6.8	4.4	5.7	7.0	4.7	5.8
30	7.1	5.3	6.3	---	---	---	6.6	4.4	5.6	7.0	4.7	6.0
31	---	---	---	---	---	---	6.9	4.4	5.7	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	5.5	6.3	8.6	7.2	7.9	---	---	---	9.4	8.3	8.8
2	8.3	5.8	6.6	8.4	7.4	7.8	---	---	---	9.0	8.2	8.7
3	7.9	6.1	6.7	8.8	7.3	7.9	---	---	---	9.1	8.3	8.8
4	8.1	6.0	6.7	8.8	7.5	7.9	---	---	---	9.4	8.3	8.9
5	7.2	5.7	6.5	8.6	7.3	7.9	9.1	8.2	8.6	9.4	8.5	8.9
6	6.8	5.5	6.2	8.2	7.2	7.7	---	---	---	9.5	8.6	8.9
7	6.6	5.5	6.2	8.1	6.9	7.6	---	---	---	9.8	8.7	9.3
8	6.7	6.2	6.5	8.3	6.8	7.5	10.4	8.8	9.7	10.1	8.9	9.6
9	6.8	5.3	6.0	7.8	6.7	7.3	10.1	8.9	9.5	10.1	9.2	9.5
10	6.6	5.7	6.1	7.6	6.8	7.3	10.4	9.0	9.7	10.0	9.0	9.5
11	6.4	5.7	6.1	8.2	7.2	7.6	10.2	8.7	9.5	10.3	8.9	9.4
12	6.5	5.8	6.2	8.5	7.2	7.7	10.4	8.9	9.5	10.5	8.8	9.4
13	6.7	5.5	6.1	8.6	7.2	7.7	10.3	8.9	9.6	10.3	8.7	9.3
14	6.5	5.7	6.0	---	---	---	10.9	9.0	10.1	9.1	8.6	8.8
15	6.4	5.3	6.0	8.1	7.0	7.4	10.7	9.2	9.9	10.7	8.9	9.5
16	6.8	5.3	6.2	7.8	6.8	7.4	10.6	9.2	9.8	10.0	9.0	9.4
17	7.2	5.9	6.6	8.0	6.7	7.4	10.5	9.3	10	9.9	9.0	9.4
18	7.5	6.0	6.8	9.2	7.5	8.2	10.9	9.5	10.4	9.3	8.7	9.0
19	7.8	6.2	7.0	---	---	---	11.8	9.6	10.8	10.2	8.9	9.5
20	7.6	6.4	7.0	9.7	8.1	8.8	11.7	9.9	10.9	10.2	9.3	9.7
21	7.4	6.1	6.8	8.6	7.7	8.2	11.9	9.9	11.1	10.0	9.2	9.5
22	7.4	5.8	6.7	8.8	7.6	8.2	12.1	10.0	11.3	9.8	8.9	9.4
23	---	---	---	9.2	8.0	8.6	11.5	9.7	10.9	10.0	9.0	9.5
24	7.4	6.8	7.2	9.1	8.2	8.7	11.0	9.6	10.3	9.7	8.6	9.1
25	8.3	7.0	7.6	10.0	8.5	9.4	9.6	8.9	9.2	9.9	8.6	9.3
26	8.3	7.2	7.8	---	---	---	9.4	8.7	9.1	10.8	9.1	9.9
27	8.3	7.5	7.9	---	---	---	9.8	8.7	9.2	11.1	9.5	10.4
28	8.7	7.5	8.1	9.8	8.5	9.0	9.9	8.4	9.0	11.1	9.6	10.3
29	9.2	7.5	8.3	---	---	---	9.2	8.5	8.8	10.5	9.3	9.9
30	9.0	7.5	8.2	---	---	---	9.5	8.4	8.8	9.9	9.1	9.4
31	8.8	7.3	8.0	---	---	---	9.1	8.0	8.7	9.5	8.9	9.3
MONTH	---	---	---	---	---	---	---	---	---	11.1	8.2	9.4
		FEBRUARY			MARCH			APRIL			MAY	
1	10.1	9.1	9.6	---	---	---	---	---	---	---	---	---
2	10.3	9.3	9.6	---	---	---	---	---	---	---	---	---
3	9.8	8.8	9.4	---	---	---	---	---	---	---	---	---
4	9.4	8.5	9.0	---	---	---	---	---	---	---	---	---
5	9.9	8.7	9.3	---	---	---	---	---	---	---	---	---
6	10.7	9.5	10	---	---	---	---	---	---	---	---	---
7	10.4	9.6	10	---	---	---	---	---	---	---	---	---
8	10.9	9.6	10.2	---	---	---	---	---	---	---	---	---
9	11.4	9.7	10.5	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	115	76	97	---	---	---	119	66	88
2	---	---	---	108	71	93	121	67	91	118	66	90
3	---	---	---	113	80	96	180	74	100	127	71	93
4	---	---	---	123	78	97	145	75	98	113	71	90
5	---	---	---	128	79	101	121	67	91	110	74	95
6	---	---	---	132	81	106	117	69	92	115	86	101
7	---	---	---	136	81	108	113	67	91	128	88	106
8	---	---	---	133	85	112	105	61	89	124	83	106
9	---	---	---	131	83	110	107	59	92	---	---	---
10	---	---	---	131	79	110	112	58	93	---	---	---
11	---	---	---	123	80	107	116	48	94	---	---	---
12	---	---	---	135	73	110	115	46	91	---	---	---
13	---	---	---	118	81	102	114	55	88	102	75	88
14	---	---	---	117	80	102	112	50	86	98	83	92
15	---	---	---	135	84	111	108	50	85	97	79	89
16	---	---	---	132	84	111	98	55	80	91	66	83
17	---	---	---	116	82	101	102	58	82	92	63	79
18	---	---	---	110	79	97	124	68	90	99	61	85
19	---	---	---	116	82	98	126	74	92	99	68	84
20	---	---	---	114	78	96	107	64	88	100	59	85
21	---	---	---	111	76	93	108	57	86	103	65	87
22	---	---	---	113	76	96	111	58	89	103	65	87
23	119	78	101	116	68	95	98	61	80	104	64	87
24	121	76	101	111	66	94	101	54	81	99	65	83
25	103	78	95	105	69	93	110	66	90	106	74	88
26	119	77	99	107	62	89	110	74	94	100	68	86
27	124	75	102	109	60	88	100	69	86	100	69	86
28	109	74	95	112	61	88	105	65	86	100	73	86
29	100	78	91	---	---	---	107	67	87	104	70	85
30	107	75	93	---	---	---	105	67	87	99	69	87
31	---	---	---	---	---	---	111	70	90	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	112	76	90	103	88	96	---	---	---	102	91	97
2	118	82	94	103	89	96	---	---	---	99	92	96
3	112	85	95	107	89	97	---	---	---	102	93	99
4	116	83	95	110	89	99	---	---	---	100	93	97
5	104	80	93	108	89	99	103	94	99	104	92	98
6	97	77	90	106	88	98	---	---	---	100	93	97
7	95	76	88	107	86	98	---	---	---	101	91	97
8	98	85	92	109	84	96	105	94	100	105	92	99
9	99	70	81	105	84	96	107	99	102	110	96	102
10	89	72	79	100	87	94	106	92	101	109	96	102
11	90	73	79	98	85	93	109	95	102	111	98	103
12	88	76	80	103	85	94	112	96	102	117	98	105
13	84	75	79	108	87	96	107	97	101	116	99	104
14	86	74	80	---	---	---	107	99	102	104	94	101
15	90	71	81	106	91	97	107	99	103	103	95	99
16	95	71	84	104	89	97	112	99	105	107	94	100
17	99	77	88	101	88	95	105	98	102	110	96	103
18	101	78	91	107	89	97	105	101	103	106	97	102
19	105	81	94	---	---	---	113	101	106	114	94	104
20	104	83	95	109	95	101	112	99	106	113	97	106
21	106	81	95	100	94	96	108	98	105	115	99	108
22	107	78	93	98	90	95	109	96	104	108	101	104
23	---	---	---	102	88	96	109	99	104	113	96	105
24	99	85	92	103	91	98	108	96	101	110	96	103
25	100	90	93	104	94	99	98	93	96	107	93	101
26	102	86	93	---	---	---	100	90	95	109	98	103
27	102	86	93	---	---	---	98	86	94	113	100	106
28	98	89	93	112	96	101	99	89	94	117	103	108
29	102	88	94	---	---	---	102	91	95	113	104	108
30	104	86	95	---	---	---	100	92	94	110	102	105
31	105	89	96	---	---	---	99	88	95	105	99	103
MONTH	---	---	---	---	---	---	---	---	---	117	91	102
		FEBRUARY			MARCH			APRIL			MAY	
1	111	97	104	---	---	---	---	---	---	---	---	---
2	115	99	106	---	---	---	---	---	---	---	---	---
3	115	99	107	---	---	---	---	---	---	---	---	---
4	109	98	105	---	---	---	---	---	---	---	---	---
5	111	96	104	---	---	---	---	---	---	---	---	---
6	114	98	106	---	---	---	---	---	---	---	---	---
7	109	101	105	---	---	---	---	---	---	---	---	---
8	114	99	107	---	---	---	---	---	---	---	---	---
9	115	102	108	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.0	1.8	4.7	---	---	---	13	2.0	6.9
2	---	---	---	7.7	1.1	4.4	13	1.2	5.6	15	2.2	6.9
3	---	---	---	20	1.8	6.1	13	0.9	5.0	19	3.2	8.6
4	---	---	---	12	1.7	5.5	17	1.1	5.9	28	2.8	9.8
5	---	---	---	8.9	1.2	4.7	16	0.9	5.9	35	3.7	13
6	---	---	---	10	1.2	5.0	14	1.4	6.3	27	5.2	14
7	---	---	---	11	1.2	5.4	13	1.6	6.9	21	3.9	10
8	---	---	---	13	2.0	6.8	13	1.5	6.6	13	3.4	7.7
9	---	---	---	13	2.6	7.2	13	1.8	6.5	17	3.1	8.6
10	---	---	---	12	2.8	7.0	19	2.5	6.8	32	5.7	18
11	---	---	---	11	2.7	6.9	---	---	---	39	12	22
12	---	---	---	9.8	2.7	6.1	---	---	---	---	---	---
13	---	---	---	18	2.1	7.1	---	---	---	52	8.5	16
14	---	---	---	18	0.9	6.4	---	---	---	150	11	57
15	---	---	---	10	1.6	6.0	---	---	---	280	19	110
16	---	---	---	9.7	1.5	5.5	14	2.0	7.4	190	14	57
17	---	---	---	10	1.2	5.5	19	2.2	8.6	120	9.8	39
18	---	---	---	13	1.2	6.5	18	2.6	9.4	97	3.5	27
19	---	---	---	15	1.6	7.6	16	2.1	9.0	59	3.0	21
20	---	---	---	16	1.7	8.0	15	1.4	8.2	39	2.5	18
21	---	---	---	15	1.5	8.1	15	1.5	8.7	30	2.2	15
22	---	---	---	13	0.5	6.8	14	2.8	9.0	24	1.9	12
23	16	1.8	7.5	16	1.0	6.8	17	3.3	9.0	17	2.5	8.8
24	10	1.5	6.4	20	1.1	8.1	25	3.5	11	---	---	---
25	15	1.5	7.2	10	1.2	6.3	15	4.8	9.4	---	---	---
26	11	2.2	7.2	8.0	0.6	5.0	12	4.0	7.5	---	---	---
27	8.9	2.1	6.0	8.6	0.7	4.6	9.0	3.4	6.2	---	---	---
28	9.2	1.8	5.1	9.5	0.3	4.8	9.9	3.0	5.7	---	---	---
29	14	1.7	6.8	---	---	---	10	1.9	5.3	17	3.0	8.0
30	10	1.3	5.4	---	---	---	9.1	1.8	4.9	64	6.4	14
31	---	---	---	---	---	---	14	2.5	6.8	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	26	4.7	11	10	3.8	7.0	---	---	---	14	3.7	7.1
2	25	3.7	11	32	5.2	13	---	---	---	16	3.6	7.4
3	21	4.5	11	14	4.2	8.6	---	---	---	28	3.2	11
4	22	3.6	10	12	3.7	7.6	---	---	---	28	4.3	12
5	23	4.2	11	13	3.3	7.3	18	3.9	9.3	7.7	2.2	4.8
6	22	5.1	12	12	3.6	7.4	---	---	---	23	2.5	9.0
7	39	5.4	16	14	4.3	7.4	---	---	---	10	1.7	4.3
8	32	7.0	17	11	3.3	6.5	24	4.2	9.4	5.5	1.4	2.9
9	24	4.9	12	27	2.9	6.7	31	3.8	12	16	2.0	5.0
10	32	6.3	14	34	3.5	9.8	12	4.4	7.4	16	2.2	7.2
11	28	6.1	13	17	2.3	6.3	15	4.4	7.1	11	1.8	5.7
12	30	4.8	13	13	1.9	4.8	11	3.8	5.9	7.7	1.9	4.4
13	23	4.0	10	8.5	1.4	4.9	50	3.8	17	10	1.8	4.0
14	21	3.7	9.7	12	1.4	5.5	28	4.6	12	39	2.4	7.0
15	20	3.7	9.7	10	1.7	6.1	13	3.5	6.4	91	4.0	31
16	15	3.4	9.4	13	2.3	6.7	14	3.6	6.5	25	2.8	9.3
17	17	3.1	9.0	41	3.8	11	18	4.5	7.6	18	1.6	6.6
18	17	3.1	8.8	23	2.3	8.7	42	5.9	19	39	5.6	16
19	14	3.1	8.8	---	---	---	26	3.1	10	18	3.6	7.7
20	14	2.9	8.8	6.5	1.2	2.9	13	2.8	7.5	9.0	2.0	4.6
21	12	2.8	7.4	26	1.3	6.8	11	3.5	6.4	7.5	1.8	3.7
22	16	2.5	7.3	19	2.5	9.6	11	2.8	4.8	38	3.7	15
23	---	---	---	18	3.1	6.8	32	2.4	4.5	14	1.8	5.7
24	28	3.4	8.9	15	3.1	7.1	16	2.0	3.6	22	2.5	7.9
25	20	2.4	9.5	30	5.5	14	12	1.8	4.4	38	3.3	11
26	12	5.3	8.0	---	---	---	11	3.5	6.3	30	5.0	18
27	14	4.2	6.3	---	---	---	14	4.3	7.5	27	2.9	11
28	35	5.7	12	17	3.2	6.7	14	3.4	6.7	14	3.1	6.1
29	17	4.9	8.8	---	---	---	12	4.7	7.5	15	2.5	6.9
30	12	4.3	6.5	---	---	---	13	4.7	7.3	20	3.1	7.0
31	12	4.2	6.6	---	---	---	16	5.1	7.8	70	3.6	18
MONTH	---	---	---	---	---	---	---	---	---	91	1.4	8.9
		FEBRUARY			MARCH			APRIL			MAY	
1	27	3.5	12	---	---	---	---	---	---	---	---	---
2	8.8	1.9	5.3	---	---	---	---	---	---	---	---	---
3	31	2.3	7.5	---	---	---	---	---	---	---	---	---
4	17	2.5	6.8	---	---	---	---	---	---	---	---	---
5	38	3.4	11	---	---	---	---	---	---	---	---	---
6	20	3.1	6.1	---	---	---	---	---	---	---	---	---
7	14	2.2	4.8	---	---	---	---	---	---	---	---	---
8	11	1.9	4.1	---	---	---	---	---	---	---	---	---
9	9.7	1.4	4.0	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	12.3	2.7	6.2	---	---	---	17.5	4.1	8.1
2	---	---	---	10.9	2.1	5.2	22.4	4.0	9.4	12.1	4.0	7.4
3	---	---	---	10.7	2.0	5.9	62.5	3.1	10.7	11.6	3.6	6.8
4	---	---	---	11.0	2.1	6.4	39.4	3.0	10.1	12.2	3.3	6.9
5	---	---	---	12.1	2.0	6.1	16.4	3.2	7.9	13.8	4.2	7.8
6	---	---	---	11.6	2.3	5.6	15.2	2.2	7.2	13.4	4.9	8.9
7	---	---	---	10.4	1.7	5.5	17.7	3.1	7.9	12.3	5.9	9.0
8	---	---	---	15.3	2.1	5.6	19.4	2.7	7.9	10.7	5.4	8.2
9	---	---	---	12.4	2.2	6.8	14.8	3.1	7.3	12.4	5.4	8.0
10	---	---	---	8.5	2.0	5.6	13.7	3.2	7.5	15.0	5.8	10.7
11	---	---	---	10.7	1.9	6.1	12.4	2.9	6.9	13.0	10.0	11.2
12	---	---	---	9.9	2.3	6.1	14.9	3.2	7.2	---	---	---
13	---	---	---	9.9	3.2	6.2	30.2	3.2	8.1	16.1	5.9	10.9
14	---	---	---	11.0	2.5	6.9	27.8	3.5	8.2	16.6	6.6	10.8
15	---	---	---	11.5	4.9	8.3	17.2	3.0	7.9	20.2	5.0	13.4
16	---	---	---	15.4	4.7	9.1	12.2	2.6	5.9	17.0	3.0	9.3
17	---	---	---	13.5	3.9	7.8	16.8	2.8	6.9	14.9	2.6	7.9
18	---	---	---	13.1	3.6	7.6	16.2	3.3	8.5	11.7	3.6	7.8
19	---	---	---	15.2	2.9	8.3	17.5	2.4	8.0	15.4	3.6	8.2
20	---	---	---	16.5	2.9	7.7	12.0	2.1	6.0	11.1	3.4	7.6
21	---	---	---	18.5	3.9	9.5	9.6	2.0	5.5	17.8	3.9	8.6
22	---	---	---	19.6	1.9	8.1	9.1	1.7	5.4	10.9	4.3	7.9
23	8.4	2.2	4.9	11.5	2.0	5.4	9.0	1.7	5.6	10.3	4.1	7.3
24	8.5	2.2	4.9	11.0	1.9	5.5	11.6	3.0	6.5	11.0	4.7	7.4
25	9.7	2.2	5.9	8.2	1.5	4.8	12.0	3.7	7.5	11.3	5.6	8.8
26	9.4	2.7	6.0	8.3	1.3	3.9	14.9	4.3	7.8	11.3	5.8	8.3
27	10.9	3.1	5.7	8.6	0.9	4.0	17.4	4.0	7.5	10.4	4.7	7.5
28	7.1	2.8	5.1	12.0	1.7	4.5	15.8	4.1	7.2	13.9	5.5	7.8
29	9.2	2.8	5.2	---	---	---	13.8	4.5	7.0	12.7	3.6	6.9
30	11.1	3.4	6.1	---	---	---	10.1	3.3	5.9	19.5	5.0	9.4
31	---	---	---	---	---	---	13.6	3.3	6.3	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270650 CRAB POINT THOROFARE NEAR MOREHEAD CITY, NC—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	18.8	4.2	10.1	11.6	3.9	7.1	---	---	---	12.8	3.9	7.3
2	19.8	5.4	11.0	12.0	3.9	7.5	---	---	---	11.5	4.8	7.5
3	18.7	5.1	10.8	9.4	3.7	6.7	---	---	---	13.5	3.5	7.2
4	16.9	5.2	10.2	12.2	3.8	6.5	---	---	---	14.0	4.4	8.6
5	16.7	5.4	9.5	9.5	3.5	6.3	11.2	4.6	7.3	8.2	3.1	5.3
6	14.1	5.6	9.3	10.4	3.2	6.3	---	---	---	21.6	3.1	6.6
7	12.1	5.1	7.9	10.5	3.0	6.2	---	---	---	8.5	3.1	5.9
8	10.0	5.0	7.4	9.3	2.6	5.9	12.4	5.3	8.7	8.6	2.9	5.2
9	15.6	5.6	10.9	9.3	2.1	5.3	15.3	4.0	8.6	7.3	3.0	5.2
10	20.5	5.5	14.4	10.2	2.8	5.5	11.8	5.0	8.2	10.3	2.7	6.8
11	21.2	6.0	15.3	8.5	2.1	5.0	10.7	4.0	7.5	16.8	3.0	8.7
12	20.1	4.7	13.6	7.2	1.8	4.6	10.0	4.3	7.0	17.1	3.0	8.9
13	18.0	1.9	10.8	6.9	2.8	4.8	12.2	4.1	8.4	24.6	3.3	8.8
14	15.7	2.1	9.0	8.5	2.7	5.2	10.7	4.2	7.9	11.5	2.5	5.6
15	12.1	2.3	6.7	8.0	2.2	5.1	10.4	4.2	7.0	16.8	2.5	9.9
16	8.6	2.8	6.1	6.9	2.6	5.0	12.5	3.6	7.2	8.8	1.9	5.1
17	10.1	2.8	7.1	9.7	3.1	6.3	13.2	4.2	9.2	6.8	1.4	4.4
18	10.8	2.9	7.2	9.3	2.7	6.1	16.9	5.9	13.1	8.5	2.3	5.3
19	11.1	3.7	7.5	---	---	---	19.1	4.3	13.8	6.6	2.3	4.9
20	9.4	3.9	6.8	8.3	3.5	6.2	19.0	4.3	12.9	5.5	2.8	4.4
21	8.7	3.4	6.3	8.0	3.0	5.5	19.9	6.7	13.4	5.8	2.7	4.2
22	8.7	3.9	6.1	10.4	3.6	6.3	23.6	6.8	14.0	11.1	3.3	7.0
23	---	---	---	9.7	2.6	5.6	29.6	6.4	16.0	8.6	3.6	6.2
24	10.2	4.7	7.6	7.1	3.1	4.9	39.2	7.2	16.6	8.3	3.7	5.8
25	12.3	5.5	8.3	11.2	4.5	8.2	30.9	6.7	13.3	11.2	3.1	6.1
26	10.9	5.5	8.0	---	---	---	19.2	6.1	11.5	10.7	4.6	8.1
27	10.3	5.7	8.1	---	---	---	22.6	6.0	12.6	9.7	3.8	6.6
28	14.3	6.7	9.7	10.4	3.8	6.7	46.8	5.6	13.0	7.6	2.9	4.9
29	14.3	5.2	9.0	---	---	---	29.9	5.4	9.7	7.1	2.5	4.4
30	11.5	4.2	7.9	---	---	---	16.0	4.7	9.2	6.7	2.0	4.1
31	10.8	3.7	7.1	---	---	---	14.4	4.8	8.2	11.7	2.5	5.4
MONTH	---	---	---	---	---	---	---	---	---	24.6	1.4	6.3
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	1.4	4.7	---	---	---	---	---	---	---	---	---
2	5.3	1.7	3.4	---	---	---	---	---	---	---	---	---
3	6.4	1.8	3.4	---	---	---	---	---	---	---	---	---
4	5.9	1.7	3.6	---	---	---	---	---	---	---	---	---
5	7.7	2.3	4.3	---	---	---	---	---	---	---	---	---
6	5.9	2.7	4.1	---	---	---	---	---	---	---	---	---
7	6.4	3.1	4.3	---	---	---	---	---	---	---	---	---
8	5.9	3.0	4.5	---	---	---	---	---	---	---	---	---
9	9.5	3.0	5.8	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC

LOCATION.--Lat 34°43'38", long 76°39'58", Carteret County, Hydrologic Unit 03020106, at Maritime Museum dock, on east side of Newport River, near the mouth of Town Creek and Gallant Channel, approximately 0.3 mi north of U.S. Highway 70 at Beaufort.

PERIOD OF RECORD.--June 2005 to February 2006 (discontinued).

PERIOD OF DAILY RECORD.--
SALINITY: June 2005 to February 2006.
pH: June 2005 to February 2006.
WATER TEMPERATURE: June 2005 to February 2006.
DISSOLVED OXYGEN: June 2005 to January 2006.
DISSOLVED OXYGEN, PERCENT SATURATION: June 2005 to January 2006.
TURBIDITY: June 2005 to January 2006.
CHLOROPHYLL: June 2005 to February 2006.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from June 2005 to February 2006.

REMARKS.--Station operated in cooperation with the National Oceanic and Atmospheric Administration (NOAA). The salinity is computed from specific conductance using the conversion from U.S. Geological Survey Water-Supply Paper 2311. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm of Hg. The chlorophyll data have not been calibrated to actual chlorophyll values determined from samples sent to the National Water Quality Laboratory.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY, ppt	35.5, August 31, September 1, 2005	14.7, September 15, 2005
pH, standard units	8.5, December 22, 23, 24, 2005	7.6, September 17, October 9, 10, 11, 2005
WATER TEMPERATURE , °C	32.7, August 22, 2005	6.3, December 24, 2005
DISSOLVED OXYGEN , mg/L	10.0, January 8, 2006	4.6, August 22, 23, 24, 2005
DISSOLVED OXYGEN, PERCENT SATURATION, %	128, July 15, 2005	72, August 24, September 17, 2005
TURBIDITY, FNU	77, September 14, 2005	0.1, August 22, September 5, 2005
CHLOROPHYLL, total, fluorometric, 650-700 nm, in-situ sensor, ug/L	29.7, August 25, 2005	1.5, July 23, 2005

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	30.7	26.9	28.8	31.6	26.8	29.9	35.5	33.6	34.8
2	---	---	---	31.4	28.2	29.6	32.5	29.1	30.9	35.3	33.3	34.5
3	---	---	---	32.0	29.2	30.5	32.1	28.4	30.8	35.1	33.0	34.3
4	---	---	---	31.8	29.0	30.7	32.4	29.4	30.7	35.2	33.1	34.4
5	---	---	---	31.4	28.7	30.3	32.5	29.1	31.1	35.1	31.3	34.0
6	---	---	---	30.8	28.5	29.8	32.7	29.7	31.4	34.7	29.0	32.4
7	---	---	---	31.5	28.7	29.9	33.0	30.4	31.9	33.0	26.9	30.6
8	---	---	---	32.5	29.9	31.3	33.1	30.9	32.2	31.9	27.2	30.0
9	---	---	---	32.1	30.2	31.3	33.5	31.3	32.2	30.9	28.4	29.9
10	---	---	---	32.1	30.2	31.1	33.5	31.4	32.4	31.0	23.5	28.4
11	---	---	---	32.0	30.1	31.0	33.6	31.0	32.7	28.4	23.3	25.9
12	---	---	---	31.7	30.1	30.8	33.6	31.9	32.7	27.6	22.1	25.4
13	---	---	---	32.4	26.6	30.5	33.7	31.9	32.8	30.3	25.6	27.6
14	---	---	---	31.9	27.0	29.8	34.0	32.1	33.0	33.3	26.6	29.9
15	---	---	---	31.6	26.3	29.2	33.9	31.9	32.9	28.9	14.7	20.9
16	---	---	---	30.4	24.9	28.2	34.6	31.8	33.1	28.7	17.6	22.2
17	---	---	---	30.9	25.8	28.2	34.8	32.0	33.5	29.8	19.4	25.1
18	---	---	---	31.2	26.8	28.6	35.0	32.8	34.1	29.8	22.1	26.0
19	---	---	---	31.1	26.7	28.6	34.6	32.7	33.9	30.6	23.9	27.8
20	---	---	---	31.4	27.5	29.2	34.8	31.9	33.7	30.1	24.9	27.9
21	---	---	---	32.7	28.7	30.5	34.7	32.7	33.8	30.6	25.1	28.5
22	---	---	---	34.6	29.6	31.7	35.0	33.0	34.0	31.1	27.2	29.2
23	---	---	---	34.7	31.4	33.3	34.8	32.1	33.8	31.0	27.3	28.9
24	32.7	29.6	31.3	34.7	32.5	33.7	34.5	32.6	33.7	30.7	27.6	29.2
25	32.7	29.8	31.4	34.4	31.7	33.2	34.4	32.3	33.7	30.6	27.0	29.3
26	32.4	28.1	30.7	34.2	31.4	32.9	34.7	31.9	33.7	30.9	27.7	29.4
27	31.9	27.7	30.3	34.6	32.2	33.3	34.7	32.2	33.5	31.0	28.7	30.0
28	31.9	28.2	30.5	34.9	32.6	33.9	34.7	32.8	33.9	32.4	29.9	31.2
29	31.8	27.3	30.1	34.9	32.6	33.8	35.2	33.3	34.4	32.4	30.8	31.4
30	30.6	26.7	29.1	34.2	31.1	32.9	35.3	33.6	34.5	32.8	30.4	31.9
31	---	---	---	32.9	26.1	31.1	35.5	34.2	34.9	---	---	---
MONTH	---	---	---	34.9	24.9	30.9	35.5	26.8	32.9	35.5	14.7	29.4

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

SALINITY, WATER, UNFILTERED, PARTS PER THOUSAND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	32.4	30.2	31.4	---	---	---	32.5	27.4	30.2	32.7	27.9	30.5
2	31.2	28.2	29.9	---	---	---	32.3	26.3	29.4	33.0	29.3	31.1
3	30.8	27.9	29.6	---	---	---	32.5	27.0	30.1	32.5	28.9	30.5
4	30.5	27.3	29.3	---	---	---	30.6	27.1	28.8	32.9	29.4	31.1
5	31.4	28.4	30.2	---	---	---	32.8	27.1	30.0	32.7	30.4	31.4
6	32.1	29.4	30.9	---	---	---	31.8	27.1	30.2	32.8	30.0	31.5
7	31.4	21.6	28.4	---	---	---	32.1	26.9	30.0	32.5	27.6	30.6
8	31.6	17.4	26.3	---	---	---	31.4	25.6	29.4	30.2	25.7	28.2
9	27.8	19.3	23.3	---	---	---	32.2	24.6	29.1	30.1	25.4	27.3
10	25.3	18.8	21.8	---	---	---	31.4	26.2	29.3	29.9	22.7	28.1
11	26.5	17.6	22.0	32.7	30.4	31.7	30.9	26.2	28.5	30.6	22.1	28.1
12	26.6	21.5	24.8	32.7	30.6	31.9	32.4	26.4	29.8	30.6	25.4	28.8
13	27.8	23.3	25.8	32.9	30.3	31.7	33.1	28.7	31.2	31.3	26.6	29.4
14	30.9	25.0	27.8	32.9	30.4	31.6	33.0	28.2	30.9	31.6	28.9	30.1
15	31.5	27.1	29.1	33.0	30.5	31.6	33.1	26.2	30.9	30.4	26.8	28.4
16	32.0	27.3	29.6	33.1	30.1	31.6	32.3	24.5	29.0	32.9	28.1	30.9
17	31.6	28.2	29.5	33.0	30.1	31.6	31.0	26.1	29.0	33.2	29.9	31.8
18	31.1	25.8	28.0	32.7	28.8	31.0	30.4	20.8	25.8	33.0	29.7	31.9
19	30.9	25.8	27.8	32.3	28.7	30.6	25.8	19.6	23.8	31.6	29.5	30.5
20	29.7	25.8	27.8	31.2	27.5	29.7	25.7	21.0	23.5	31.5	28.6	30.6
21	31.3	26.6	29.0	32.4	27.3	29.9	27.0	22.1	24.6	31.5	28.5	30.2
22	31.8	28.4	29.7	30.4	26.5	28.7	27.2	21.7	24.6	31.9	26.6	30.4
23	30.4	27.3	29.3	28.1	25.1	26.5	27.1	20.9	23.7	30.9	25.6	28.6
24	30.9	23.1	28.7	30.3	27.8	29.1	26.6	21.2	23.6	30.6	27.3	29.0
25	23.1	18.0	20.8	31.3	27.1	29.0	29.6	24.5	26.9	30.5	26.6	28.4
26	26.8	19.0	21.6	29.7	25.9	28.3	28.7	22.6	25.6	29.9	26.3	28.2
27	---	---	---	30.2	25.6	29.0	29.7	22.6	26.9	32.4	27.3	30.6
28	---	---	---	31.5	27.8	30.4	31.0	25.7	29.0	33.3	28.4	30.8
29	---	---	---	32.7	27.9	31.0	32.0	26.8	29.4	33.3	29.0	31.3
30	---	---	---	32.2	27.1	29.9	31.9	26.3	29.2	33.8	29.9	32.6
31	---	---	---	---	---	---	32.5	27.8	29.8	33.5	31.0	32.5
MONTH	---	---	---	---	---	---	33.1	19.6	28.1	33.8	22.1	30.1
		FEBRUARY			MARCH			APRIL			MAY	
1	33.6	31.0	32.4	---	---	---	---	---	---	---	---	---
2	33.8	30.9	32.9	---	---	---	---	---	---	---	---	---
3	33.6	31.0	32.8	---	---	---	---	---	---	---	---	---
4	33.7	31.9	32.7	---	---	---	---	---	---	---	---	---
5	33.7	29.8	32.3	---	---	---	---	---	---	---	---	---
6	32.7	28.9	31.0	---	---	---	---	---	---	---	---	---
7	32.5	28.8	30.9	---	---	---	---	---	---	---	---	---
8	32.2	27.4	30.4	---	---	---	---	---	---	---	---	---
9	31.6	27.1	30.0	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.1	8.0	8.0	8.0	7.9	8.0	8.2	8.1	8.1
2	---	---	---	8.0	7.9	8.0	8.1	7.9	8.0	8.1	8.0	8.1
3	---	---	---	8.0	7.9	7.9	8.1	7.9	8.0	8.0	7.9	8.0
4	---	---	---	7.9	7.9	7.9	8.0	7.9	8.0	8.0	7.9	8.0
5	---	---	---	7.9	7.8	7.9	8.1	7.9	8.0	8.0	7.9	8.0
6	---	---	---	8.0	7.8	7.9	8.1	7.9	8.0	8.0	7.9	8.0
7	---	---	---	8.0	7.8	7.9	8.1	8.0	8.0	8.0	7.9	8.0
8	---	---	---	8.0	7.8	7.9	8.1	8.0	8.0	8.1	7.9	8.0
9	---	---	---	8.0	7.9	7.9	8.1	7.9	8.0	8.1	8.0	8.0
10	---	---	---	8.0	7.9	7.9	8.1	8.0	8.0	8.0	8.0	8.0
11	---	---	---	8.0	7.9	7.9	8.1	8.0	8.0	8.0	7.9	8.0
12	---	---	---	8.0	7.8	7.9	8.1	8.0	8.0	8.0	7.9	8.0
13	---	---	---	8.0	7.9	7.9	8.1	8.0	8.0	8.1	7.9	8.0
14	---	---	---	8.0	7.8	7.9	8.1	8.0	8.0	8.1	8.0	8.1
15	---	---	---	8.1	8.0	8.0	8.1	8.0	8.0	8.0	7.8	7.9
16	---	---	---	8.1	8.0	8.0	8.0	7.9	8.0	8.1	7.8	7.9
17	---	---	---	8.1	7.9	8.0	8.1	7.9	8.0	8.1	7.6	7.9
18	---	---	---	8.1	7.9	8.0	8.1	8.0	8.0	8.1	7.8	7.9
19	---	---	---	8.1	7.9	8.0	8.1	7.9	8.0	8.1	7.8	8.0
20	---	---	---	8.1	8.0	8.0	8.0	7.9	8.0	8.1	7.9	8.0
21	---	---	---	8.1	8.0	8.0	8.0	7.9	8.0	8.1	7.9	8.0
22	---	---	---	8.1	7.9	8.0	8.0	7.9	8.0	8.1	7.9	8.0
23	---	---	---	8.1	7.9	8.0	8.0	7.9	8.0	8.1	8.0	8.0
24	8.1	8.0	8.0	8.1	8.0	8.1	8.0	7.9	8.0	8.1	8.0	8.0
25	8.1	8.0	8.0	8.1	8.0	8.0	8.2	7.9	8.0	8.1	8.0	8.0
26	8.1	7.9	8.0	8.1	7.9	8.0	8.2	8.1	8.1	8.1	7.9	8.0
27	8.1	7.9	8.0	8.1	8.0	8.0	8.2	8.1	8.1	8.1	8.0	8.0
28	8.1	7.9	8.0	8.1	8.0	8.0	8.2	8.1	8.1	8.1	8.0	8.0
29	8.0	7.9	8.0	8.1	8.0	8.0	8.2	8.1	8.1	8.1	8.0	8.0
30	8.1	7.9	8.0	8.1	8.0	8.0	8.1	8.0	8.1	8.1	8.0	8.0
31	---	---	---	8.0	7.9	8.0	8.2	8.0	8.1	---	---	---
MONTH	---	---	---	8.1	7.8	8.0	8.2	7.9	8.0	8.2	7.6	8.0

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	8.0	8.0	---	---	---	8.0	8.0	8.0	8.4	8.0	8.2
2	8.1	8.0	8.0	---	---	---	8.1	8.0	8.0	8.4	8.1	8.2
3	8.1	8.0	8.0	---	---	---	8.1	8.0	8.1	8.3	8.1	8.1
4	8.1	8.0	8.1	---	---	---	8.1	8.0	8.1	8.4	7.9	8.2
5	8.1	8.0	8.1	---	---	---	8.1	8.0	8.0	8.4	8.1	8.1
6	8.1	8.0	8.0	---	---	---	8.1	8.0	8.1	8.1	8.1	8.1
7	8.0	7.9	8.0	---	---	---	8.1	8.1	8.1	8.1	8.0	8.1
8	8.0	7.7	8.0	---	---	---	8.2	8.0	8.1	8.1	8.1	8.1
9	8.0	7.6	7.9	---	---	---	8.2	8.0	8.1	8.1	8.0	8.1
10	7.9	7.6	7.8	---	---	---	8.2	8.0	8.1	8.1	8.0	8.1
11	8.0	7.6	7.8	8.2	8.2	8.2	8.2	8.0	8.1	8.1	8.0	8.1
12	7.9	7.8	7.9	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.0	8.1
13	8.0	7.8	7.9	8.2	8.2	8.2	8.2	8.1	8.1	8.1	8.1	8.1
14	8.0	7.9	8.0	8.2	8.1	8.2	8.2	8.0	8.2	8.1	8.0	8.1
15	8.1	7.8	8.0	8.2	8.1	8.2	8.2	8.0	8.1	8.1	8.0	8.0
16	8.1	7.8	8.0	8.2	8.0	8.1	8.2	8.0	8.1	8.1	8.0	8.1
17	8.1	7.9	8.0	8.1	8.0	8.0	8.2	8.0	8.2	8.1	8.0	8.1
18	8.1	7.9	8.0	8.1	8.0	8.1	8.3	8.0	8.1	8.1	8.0	8.1
19	8.1	7.9	8.0	8.2	8.1	8.2	8.2	8.1	8.1	8.1	8.0	8.0
20	8.1	8.0	8.0	8.2	8.1	8.2	8.2	8.1	8.2	8.1	8.0	8.1
21	8.1	8.0	8.0	8.2	8.1	8.1	8.2	8.1	8.2	8.1	8.0	8.1
22	8.1	8.0	8.0	8.1	8.1	8.1	8.5	8.2	8.2	8.1	8.0	8.1
23	8.1	8.0	8.1	8.2	8.1	8.1	8.5	8.2	8.2	8.1	8.0	8.1
24	8.1	8.0	8.1	8.2	8.1	8.2	8.5	8.2	8.2	8.1	8.0	8.1
25	8.1	7.9	8.0	8.2	8.1	8.2	8.2	8.1	8.2	8.1	8.0	8.1
26	8.1	7.9	8.0	8.2	8.2	8.2	8.4	8.1	8.2	8.1	8.0	8.1
27	---	---	---	8.2	8.2	8.2	8.4	7.8	8.2	8.1	8.1	8.1
28	---	---	---	8.2	8.1	8.2	8.4	7.9	8.2	8.1	8.1	8.1
29	---	---	---	8.2	8.0	8.1	8.4	7.9	8.2	8.1	8.1	8.1
30	---	---	---	8.0	8.0	8.0	8.4	8.1	8.2	8.1	8.1	8.1
31	---	---	---	---	---	---	8.4	8.1	8.2	8.1	8.0	8.1
MONTH	---	---	---	---	---	---	8.5	7.8	8.1	8.4	7.9	8.1
		FEBRUARY			MARCH			APRIL			MAY	
1	8.1	8.0	8.1	---	---	---	---	---	---	---	---	---
2	8.1	8.1	8.1	---	---	---	---	---	---	---	---	---
3	8.1	8.0	8.1	---	---	---	---	---	---	---	---	---
4	8.1	8.0	8.1	---	---	---	---	---	---	---	---	---
5	8.1	8.1	8.1	---	---	---	---	---	---	---	---	---
6	8.1	8.1	8.1	---	---	---	---	---	---	---	---	---
7	8.1	8.1	8.1	---	---	---	---	---	---	---	---	---
8	8.1	8.1	8.1	---	---	---	---	---	---	---	---	---
9	8.2	8.1	8.1	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.8	27.0	28.2	28.9	28.0	28.6	29.8	28.6	29.2
2	---	---	---	29.5	27.8	28.5	29.3	27.8	28.4	30.0	28.7	29.3
3	---	---	---	29.1	27.8	28.4	30.6	27.8	28.8	29.9	28.6	29.1
4	---	---	---	29.0	27.4	28.2	31.0	28.6	29.6	29.0	27.7	28.3
5	---	---	---	30.3	27.7	28.8	31.3	29.2	30.1	27.8	26.5	27.0
6	---	---	---	30.8	28.3	29.4	31.4	29.2	30.2	26.7	25.6	26.2
7	---	---	---	32.0	28.7	30.0	30.3	29.1	29.7	26.5	25.2	25.8
8	---	---	---	30.6	28.7	29.4	29.3	28.2	28.6	26.9	25.5	26.0
9	---	---	---	30.6	28.5	29.5	30.2	28.1	29.0	27.1	25.8	26.4
10	---	---	---	30.9	28.8	29.7	30.6	28.7	29.5	26.7	25.0	25.9
11	---	---	---	30.4	29.2	29.8	31.2	28.9	30.0	25.1	24.1	24.6
12	---	---	---	30.7	28.8	29.7	31.5	29.7	30.6	25.2	24.0	24.5
13	---	---	---	30.0	27.7	28.8	31.8	30.2	30.9	25.8	24.9	25.4
14	---	---	---	28.3	27.2	27.7	31.9	30.3	31.0	25.6	25.0	25.4
15	---	---	---	29.5	26.9	28.0	32.1	30.4	31.2	25.0	24.4	24.6
16	---	---	---	30.6	28.0	29.1	32.2	30.2	30.9	26.2	24.6	25.3
17	---	---	---	30.1	28.6	29.1	30.6	29.5	29.9	29.1	25.9	26.9
18	---	---	---	29.7	28.1	28.8	30.5	28.9	29.6	29.4	26.9	27.8
19	---	---	---	30.1	28.0	28.9	31.1	29.0	29.8	28.6	27.4	27.9
20	---	---	---	30.7	28.2	29.2	31.9	29.3	30.3	29.8	27.5	28.3
21	---	---	---	30.6	27.8	29.0	32.6	29.6	30.8	28.6	27.6	28.1
22	---	---	---	30.3	27.9	29.0	32.7	30.0	31.1	29.6	27.5	28.3
23	---	---	---	30.3	27.7	28.8	31.2	30.0	30.6	29.6	27.7	28.5
24	27.3	24.9	25.8	29.9	28.0	28.8	30.2	29.2	29.7	28.8	27.4	28.2
25	26.4	25.2	25.9	30.5	28.0	29.0	29.2	28.0	28.5	28.2	26.9	27.6
26	28.3	25.2	26.3	30.6	28.6	29.5	28.0	26.9	27.5	27.9	26.4	27.1
27	29.7	26.3	27.6	31.8	29.1	30.3	27.6	27.1	27.3	27.1	26.3	26.8
28	28.4	27.5	27.9	31.1	30.0	30.6	28.4	26.9	27.6	26.5	25.7	26.2
29	27.6	26.2	26.8	30.9	29.7	30.0	29.0	27.7	28.3	27.0	25.5	26.2
30	28.2	25.9	26.9	30.0	29.1	29.4	30.1	28.1	28.9	26.6	25.1	25.9
31	---	---	---	30.1	28.3	29.1	30.1	28.6	29.2	---	---	---
MONTH	---	---	---	32.0	26.9	29.1	32.7	26.9	29.6	30.0	24.0	26.9

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	25.7	24.7	25.1	---	---	---	16.2	14.8	15.6	12.0	10.9	11.3
2	25.4	24.3	24.8	---	---	---	14.9	12.4	14.0	11.9	11.1	11.4
3	26.1	24.3	25.0	---	---	---	13.4	11.6	12.7	12.8	11.6	12.3
4	26.2	24.8	25.4	---	---	---	14.5	12.9	13.7	12.4	11.3	11.7
5	26.3	25.3	25.7	---	---	---	14.6	14.1	14.4	12.4	11.1	11.6
6	25.9	25.4	25.7	---	---	---	14.5	12.0	13.3	11.9	10.5	11.3
7	25.6	24.5	24.9	---	---	---	12.6	11.2	11.9	10.8	9.3	10.0
8	26.2	24.5	25.1	---	---	---	12.0	9.8	10.8	9.8	8.5	9.2
9	27.3	24.9	25.8	---	---	---	11.9	10.0	11.0	11.3	9.4	10.3
10	26.5	24.7	25.5	---	---	---	11.3	9.8	10.6	11.7	10.6	11.1
11	25.6	24.2	24.9	18.8	16.8	17.7	11.1	9.9	10.5	13.1	11.4	11.9
12	25.2	23.7	24.6	17.4	16.6	17.0	11.2	10.0	10.5	13.8	12.1	12.7
13	24.0	22.4	23.3	17.9	16.5	17.3	11.5	9.2	10.5	13.8	12.5	13.1
14	23.3	22.0	22.5	19.3	17.4	18.3	10.0	8.4	8.9	13.8	11.7	13.0
15	23.5	22.0	22.6	19.6	18.6	19.1	11.1	7.8	9.3	11.7	8.9	9.9
16	23.3	22.1	22.7	20.4	19.2	19.7	11.7	10.1	10.8	10.7	8.1	9.8
17	22.5	21.5	22.0	20.1	17.8	19.1	10.6	10.1	10.3	12.0	10.1	10.9
18	22.1	20.7	21.5	17.9	15.5	16.4	10.2	9.0	9.6	12.4	11.1	11.9
19	23.4	21.1	22.1	15.7	14.1	14.8	9.8	8.6	9.2	11.9	10.0	11.1
20	24.1	21.8	22.8	14.9	13.9	14.5	9.7	8.1	9.0	12.4	10.7	11.5
21	24.9	22.7	23.6	16.5	14.6	15.6	9.3	7.8	8.6	13.4	11.5	12.5
22	25.1	23.3	24.2	16.4	13.3	15.0	8.7	7.0	8.1	13.1	11.8	12.4
23	24.4	22.1	23.0	13.3	11.0	12.2	9.1	6.8	8.1	14.0	11.8	12.6
24	22.5	20.3	21.6	13.7	12.0	12.8	9.2	6.3	8.4	13.3	12.7	13.0
25	20.4	16.4	18.1	13.9	11.1	12.5	10.9	9.0	9.9	12.9	10.8	12.1
26	17.8	15.0	16.5	12.3	10.8	11.4	10.3	9.3	9.9	11.1	8.9	10
27	---	---	---	12.9	11.1	11.9	9.9	8.6	9.3	9.7	8.5	9.0
28	---	---	---	14.5	12.5	13.8	10.2	9.1	9.7	9.8	8.4	9.2
29	---	---	---	16.0	14.3	15.1	11.6	10.1	10.7	11.3	9.1	10.3
30	---	---	---	17.4	15.7	16.2	11.0	10.1	10.6	11.9	10.9	11.3
31	---	---	---	---	---	---	11.4	10.3	10.9	11.6	10.8	11.2
MONTH	---	---	---	---	---	---	16.2	6.3	10.7	14.0	8.1	11.3
		FEBRUARY			MARCH			APRIL			MAY	
1	11.7	10.0	10.7	---	---	---	---	---	---	---	---	---
2	11.8	10.2	11.0	---	---	---	---	---	---	---	---	---
3	13.4	11.4	12.4	---	---	---	---	---	---	---	---	---
4	13.6	11.8	12.9	---	---	---	---	---	---	---	---	---
5	13.0	10.6	11.7	---	---	---	---	---	---	---	---	---
6	10.7	9.5	10.0	---	---	---	---	---	---	---	---	---
7	10.0	9.2	9.6	---	---	---	---	---	---	---	---	---
8	10.2	8.9	9.5	---	---	---	---	---	---	---	---	---
9	9.7	8.4	9.1	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.5	6.2	7.0	6.4	5.0	5.7	6.6	5.1	5.8
2	---	---	---	7.3	5.7	6.6	7.2	5.0	6.0	7.6	5.1	5.9
3	---	---	---	7.2	6.0	6.5	8.1	5.2	6.4	7.4	5.2	6.0
4	---	---	---	7.3	5.9	6.5	7.3	5.4	6.3	6.9	5.3	6.0
5	---	---	---	7.5	5.6	6.4	7.3	5.4	6.3	7.1	5.3	6.2
6	---	---	---	7.8	5.4	6.6	7.1	5.4	6.2	7.3	5.5	6.4
7	---	---	---	7.7	5.2	6.4	6.8	5.2	6.0	7.5	5.8	6.6
8	---	---	---	7.4	5.7	6.5	6.4	5.3	5.9	7.6	5.8	6.6
9	---	---	---	7.7	5.4	6.4	6.7	5.3	6.0	7.4	5.9	6.6
10	---	---	---	7.6	5.5	6.4	6.9	5.3	6.1	6.8	5.9	6.4
11	---	---	---	7.3	5.4	6.3	7.0	5.3	6.1	7.1	6.2	6.6
12	---	---	---	7.2	5.0	6.3	6.8	5.4	6.1	7.6	6.3	6.7
13	---	---	---	6.4	5.5	6.1	6.7	5.6	6.1	7.0	6.0	6.5
14	---	---	---	6.6	5.3	5.9	6.8	5.5	6.1	6.8	6.1	6.5
15	---	---	---	8.3	5.8	6.9	6.8	5.6	6.1	7.0	6.2	6.7
16	---	---	---	7.8	6.0	7.1	6.4	5.0	5.6	6.8	5.9	6.5
17	---	---	---	7.1	5.8	6.4	6.6	4.8	5.5	7.0	5.2	6.1
18	---	---	---	7.2	5.4	6.3	6.8	5.1	5.8	7.4	5.4	6.2
19	---	---	---	7.4	5.6	6.4	7.1	5.1	5.8	6.7	5.2	6.0
20	---	---	---	7.3	5.6	6.4	7.0	4.9	5.8	7.3	5.3	6.2
21	---	---	---	6.9	5.6	6.2	6.7	4.8	5.8	6.8	5.2	6.1
22	---	---	---	7.1	5.7	6.3	6.6	4.6	5.7	7.4	5.5	6.3
23	---	---	---	7.2	5.3	6.2	6.3	4.6	5.6	7.8	5.7	6.5
24	7.8	5.8	6.8	7.3	5.2	6.3	6.5	4.6	5.6	6.7	5.6	6.2
25	7.2	5.9	6.6	7.3	5.4	6.3	7.3	5.2	6.1	7.1	5.3	6.0
26	7.8	5.9	6.8	7.1	5.2	6.2	7.1	5.4	6.3	7.6	5.1	6.3
27	7.9	5.6	6.9	7.3	5.4	6.3	6.5	5.6	6.1	7.0	5.6	6.2
28	7.3	5.9	6.7	7.1	5.4	6.3	6.8	5.4	6.0	6.8	5.4	6.1
29	6.9	6.0	6.5	6.9	5.6	6.2	6.8	5.3	6.0	7.0	5.6	6.2
30	8.1	6.0	6.9	7.1	5.4	6.1	6.8	5.3	5.9	6.7	5.7	6.2
31	---	---	---	7.2	5.2	6.0	6.6	5.3	5.9	---	---	---
MONTH	---	---	---	8.3	5.0	6.4	8.1	4.6	6.0	7.8	5.1	6.3

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.1	5.7	6.3	---	---	---	---	---	---	---	---	---
2	7.8	5.9	6.6	---	---	---	---	---	---	---	---	---
3	7.9	6.2	6.8	---	---	---	---	---	---	---	---	---
4	7.6	6.2	6.8	---	---	---	---	---	---	---	---	---
5	7.2	6.1	6.6	---	---	---	---	---	---	---	---	---
6	6.7	5.8	6.3	---	---	---	---	---	---	9.3	8.7	8.9
7	6.6	5.9	6.3	---	---	---	---	---	---	9.8	8.8	9.2
8	6.6	6.2	6.4	---	---	---	---	---	---	10.0	9.4	9.7
9	6.9	5.4	6.2	---	---	---	9.6	8.9	9.2	9.9	9.3	9.7
10	6.2	5.4	5.8	---	---	---	---	---	---	9.7	8.9	9.3
11	6.2	5.4	5.8	8.0	7.0	7.4	---	---	---	---	---	---
12	6.1	5.6	5.9	7.8	7.1	7.5	---	---	---	---	---	---
13	6.3	5.6	5.9	8.1	7.2	7.6	---	---	---	---	---	---
14	6.4	5.8	6.1	8.0	7.2	7.6	---	---	---	---	---	---
15	6.6	5.6	6.2	7.8	7.1	7.4	---	---	---	---	---	---
16	6.9	5.7	6.4	7.8	7.0	7.3	---	---	---	---	---	---
17	7.4	5.9	6.6	7.6	7.0	7.2	---	---	---	---	---	---
18	7.6	6.3	7.0	8.3	7.1	7.6	---	---	---	---	---	---
19	7.9	6.6	7.2	8.4	7.6	7.9	---	---	---	---	---	---
20	8.0	6.7	7.3	8.0	7.5	7.8	---	---	---	---	---	---
21	7.9	6.5	7.1	7.7	6.8	7.2	---	---	---	---	---	---
22	7.6	6.4	7.0	7.3	6.7	7.0	---	---	---	---	---	---
23	7.6	6.4	7.0	---	---	---	---	---	---	---	---	---
24	7.1	6.5	6.8	---	---	---	---	---	---	---	---	---
25	8.4	6.7	7.7	---	---	---	---	---	---	---	---	---
26	8.6	7.7	8.1	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	115	92	105	97	77	87	106	80	92
2	---	---	---	113	86	100	112	75	92	121	81	94
3	---	---	---	111	91	100	127	79	99	118	82	95
4	---	---	---	112	90	99	116	83	98	108	82	94
5	---	---	---	117	85	99	116	85	99	108	81	95
6	---	---	---	123	82	102	113	84	97	109	82	96
7	---	---	---	123	80	101	107	82	95	111	84	96
8	---	---	---	117	89	102	99	82	92	113	83	97
9	---	---	---	122	84	101	106	82	93	111	86	97
10	---	---	---	121	85	101	110	82	96	98	85	92
11	---	---	---	116	84	99	114	83	97	99	86	92
12	---	---	---	114	77	99	111	86	98	108	86	93
13	---	---	---	101	85	93	109	89	99	100	85	92
14	---	---	---	99	80	89	112	88	99	101	88	94
15	---	---	---	128	86	104	112	90	100	96	83	92
16	---	---	---	121	91	108	105	81	90	95	82	89
17	---	---	---	109	88	99	105	76	88	102	72	88
18	---	---	---	111	81	96	109	81	93	109	78	92
19	---	---	---	115	84	98	115	81	93	101	76	90
20	---	---	---	114	85	98	115	78	94	110	78	94
21	---	---	---	108	86	96	111	77	93	104	76	93
22	---	---	---	113	87	98	110	74	93	114	82	96
23	---	---	---	115	82	97	103	75	90	121	85	98
24	117	84	100	116	81	98	104	72	90	102	84	93
25	107	87	97	116	83	99	115	80	96	108	78	90
26	118	86	100	114	81	99	110	82	97	114	75	94
27	123	83	104	119	85	101	100	85	93	105	83	93
28	112	89	102	116	87	102	106	82	92	101	80	90
29	102	89	96	111	89	99	108	82	94	105	82	92
30	122	88	102	112	85	96	109	83	94	99	85	91
31	---	---	---	112	81	93	106	83	94	---	---	---
MONTH	---	---	---	128	77	99	127	72	94	121	72	93

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	104	83	91	---	---	---	---	---	---	---	---	---
2	112	84	95	---	---	---	---	---	---	---	---	---
3	115	88	98	---	---	---	---	---	---	---	---	---
4	111	88	98	---	---	---	---	---	---	---	---	---
5	106	88	96	---	---	---	---	---	---	---	---	---
6	99	85	92	---	---	---	---	---	---	101	97	100
7	93	86	90	---	---	---	---	---	---	104	94	99
8	96	84	90	---	---	---	---	---	---	105	97	101
9	100	73	87	---	---	---	104	97	101	107	99	103
10	88	73	81	---	---	---	---	---	---	104	96	101
11	87	74	80	101	89	94	---	---	---	---	---	---
12	85	76	82	99	89	94	---	---	---	---	---	---
13	85	76	81	102	92	96	---	---	---	---	---	---
14	88	78	83	104	92	97	---	---	---	---	---	---
15	92	75	85	102	93	97	---	---	---	---	---	---
16	96	77	88	104	92	97	---	---	---	---	---	---
17	102	80	91	98	91	95	---	---	---	---	---	---
18	102	84	94	101	89	94	---	---	---	---	---	---
19	108	87	97	101	90	95	---	---	---	---	---	---
20	111	90	99	95	87	92	---	---	---	---	---	---
21	112	89	100	91	83	87	---	---	---	---	---	---
22	110	89	99	85	81	83	---	---	---	---	---	---
23	105	88	96	---	---	---	---	---	---	---	---	---
24	98	85	91	---	---	---	---	---	---	---	---	---
25	102	85	92	---	---	---	---	---	---	---	---	---
26	102	92	95	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	4.9	1.2	2.6	---	---	---	8.2	1.5	3.4
2	---	---	---	3.9	0.4	2.0	---	---	---	6.6	0.7	3.0
3	---	---	---	6.6	0.9	2.5	4.6	0.6	1.9	7.6	0.2	2.4
4	---	---	---	8.1	0.9	2.7	5.0	0.9	2.1	7.3	0.2	2.6
5	---	---	---	5.7	0.8	2.1	7.6	0.6	2.3	8.2	0.1	2.7
6	---	---	---	5.0	0.9	2.3	6.5	0.4	2.2	6.1	0.6	3.0
7	---	---	---	5.1	0.6	2.3	5.5	0.7	2.3	5.2	1.5	3.0
8	---	---	---	15	1.0	3.0	5.9	1.6	3.0	7.5	1.2	2.9
9	---	---	---	7.4	0.8	2.2	7.7	0.9	3.0	7.6	0.9	3.2
10	---	---	---	4.1	0.8	2.0	5.4	0.6	2.3	13	1.5	4.7
11	---	---	---	4.7	0.7	2.1	4.6	0.4	2.1	17	2.7	5.6
12	---	---	---	5.1	0.6	2.3	6.7	0.8	2.1	21	2.5	5.5
13	---	---	---	22	1.2	3.1	7.0	1.2	2.4	25	2.5	7.5
14	---	---	---	5.5	1.2	3.2	4.6	1.0	2.3	77	6.1	25
15	---	---	---	6.2	2.5	3.9	4.9	0.8	2.4	59	14	29
16	---	---	---	8.6	2.3	3.7	7.3	0.8	2.9	33	8.5	16
17	---	---	---	6.7	1.9	3.4	8.6	0.7	3.2	34	7.2	13
18	---	---	---	10	2.1	3.7	8.7	0.2	3.3	34	3.4	11
19	---	---	---	10	2.4	4.7	9.8	0.9	3.6	29	3.0	9.2
20	---	---	---	11	1.6	5.2	8.7	0.7	3.4	28	2.9	7.5
21	---	---	---	8.2	2.1	4.0	8.0	0.6	3.3	17	2.6	6.6
22	---	---	---	7.7	2.0	3.8	6.6	0.1	2.8	18	2.4	5.5
23	---	---	---	6.8	1.3	3.4	5.3	0.5	2.8	13	2.4	5.0
24	10	1.3	4.3	6.1	1.3	3.2	6.9	0.7	3.5	11	3.0	5.4
25	10	1.3	4.4	6.1	1.6	2.9	8.0	1.3	3.6	12	3.4	5.7
26	9.9	1.9	4.6	5.6	1.5	2.7	7.3	1.2	2.7	13	3.5	5.4
27	9.3	1.9	4.5	3.9	1.2	2.3	4.7	1.1	2.4	11	4.2	6.0
28	9.7	2.0	3.8	5.2	1.2	2.3	5.8	0.5	2.4	---	---	---
29	7.0	1.9	3.5	7.7	1.4	3.0	4.9	0.8	2.1	9.8	3.0	4.8
30	5.9	1.7	3.3	6.0	2.0	3.4	4.5	0.8	2.2	19	2.9	6.0
31	---	---	---	7.6	2.7	4.2	18	1.4	3.6	---	---	---
MONTH	---	---	---	22	0.4	3.0	---	---	---	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

TURBIDITY, WATER, MONOCHROME NEAR INFRA-RED LED LIGHT, 780-900 NM, DETECTION ANGLE 90 +/ -2.5 DEGREES, FNU
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16	3.2	5.7	---	---	---	11	3.5	5.3	8.4	2.7	4.2
2	16	3.4	6.0	---	---	---	12	4.3	6.5	7.0	2.3	3.9
3	12	3.0	5.6	---	---	---	12	4.2	6.7	8.4	2.4	4.6
4	15	3.0	5.7	---	---	---	16	4.6	8.7	6.9	2.4	4.3
5	13	2.5	5.4	---	---	---	18	5.7	9.9	5.2	2.1	3.2
6	16	3.0	6.2	---	---	---	18	4.8	9.2	5.3	2.0	3.3
7	15	3.5	7.8	---	---	---	8.5	3.4	4.7	5.3	2.1	3.0
8	20	4.9	9.0	---	---	---	7.5	2.5	4.1	4.3	1.8	2.5
9	11	5.0	7.2	---	---	---	12	2.0	4.4	10	2.2	4.1
10	13	5.4	7.4	---	---	---	12	2.3	3.7	6.7	2.3	3.6
11	11	5.2	7.0	7.8	2.4	4.1	4.7	2.4	3.2	5.7	2.1	3.1
12	17	4.0	6.6	6.3	2.4	3.7	8.2	2.6	3.6	5.5	1.9	2.8
13	14	3.4	5.9	7.4	2.0	3.9	8.4	2.6	4.1	4.8	1.7	2.6
14	16	2.8	5.8	6.2	2.1	3.9	6.2	2.6	3.8	8.0	1.7	4.0
15	14	2.5	5.3	7.5	2.4	4.4	7.7	2.0	3.5	17	4.5	11
16	13	2.7	5.1	8.3	2.7	4.3	7.7	2.6	4.2	12	2.7	4.6
17	11	2.1	4.7	8.4	3.0	5.2	7.7	2.7	4.0	8.2	1.9	3.3
18	11	2.1	4.8	7.4	2.5	4.4	13	3.3	5.1	14	1.9	5.4
19	11	1.7	4.4	5.8	2.2	3.3	5.6	3.4	4.3	7.8	3.3	5.0
20	10	1.5	3.9	5.4	1.9	2.9	7.8	3.0	3.9	8.2	2.4	3.7
21	8.1	1.2	3.3	6.1	2.0	3.6	4.5	2.5	3.4	8.5	2.0	3.0
22	9.7	1.1	3.2	15	3.7	8.1	3.5	2.0	2.7	5.8	2.2	3.2
23	6.6	1.5	3.7	9.0	4.4	6.2	3.2	1.9	2.3	17	1.4	3.8
24	7.8	0.9	3.2	7.1	4.0	5.0	2.8	1.7	2.1	6.7	2.3	3.4
25	21	6.3	11	7.0	3.3	4.8	3.2	1.6	2.2	---	---	---
26	12	4.1	6.9	5.2	2.7	3.7	10	2.0	4.4	---	---	---
27	---	---	---	4.7	2.5	3.4	11	3.5	4.6	---	---	---
28	---	---	---	12	2.9	4.3	11	2.7	3.9	---	---	---
29	---	---	---	11	3.1	4.6	11	3.1	4.2	---	---	---
30	---	---	---	10	3.3	4.8	9.5	3.1	4.4	---	---	---
31	---	---	---	---	---	---	8.4	2.5	4.6	---	---	---
MONTH	---	---	---	---	---	---	18	1.6	4.6	---	---	---

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.7	4.7	7.6	16.2	4.3	7.5	12.1	3.0	6.4
2	---	---	---	7.9	2.6	4.9	11.6	3.7	7.3	18.2	3.7	7.5
3	---	---	---	6.2	1.9	3.7	21.4	5.0	7.3	21.5	4.0	7.2
4	---	---	---	9.5	2.0	4.1	16.1	4.4	7.0	10.8	4.5	7.0
5	---	---	---	11.8	2.2	4.5	11.9	3.6	6.5	9.6	3.8	6.7
6	---	---	---	8.2	2.6	4.7	9.9	3.2	5.9	10.7	5.1	7.3
7	---	---	---	8.3	2.5	4.6	8.8	3.1	5.6	15.9	6.3	8.6
8	---	---	---	6.5	2.0	4.0	11.1	3.7	6.0	12.8	6.1	8.9
9	---	---	---	6.3	1.8	3.8	9.4	3.8	5.9	12.4	6.7	8.7
10	---	---	---	7.5	2.4	4.0	10.7	3.2	5.8	11.1	6.7	9.0
11	---	---	---	8.0	2.8	4.6	7.0	3.1	5.3	13.2	7.4	10.0
12	---	---	---	9.2	3.2	5.6	8.6	3.6	5.4	13.8	7.6	9.8
13	---	---	---	7.5	2.4	5.1	8.2	4.0	5.7	12.4	5.9	8.5
14	---	---	---	10.4	1.8	5.2	8.9	3.7	6.4	13.6	4.4	7.4
15	---	---	---	14.1	4.9	8.7	16.8	4.6	7.4	13.2	6.4	9.7
16	---	---	---	13.2	6.2	8.8	17.2	4.1	8.0	9.8	4.4	7.1
17	---	---	---	11.5	5.4	7.7	29.3	3.1	7.1	14.5	3.4	6.6
18	---	---	---	15.9	4.8	8.4	19.4	2.7	6.5	23.0	4.6	8.5
19	---	---	---	16.9	6.1	10	24.1	3.4	7.6	15.0	5.1	8.3
20	---	---	---	15.1	4.5	9.5	26.1	2.3	7.2	22.1	4.7	9.0
21	---	---	---	14.0	3.6	7.3	15.6	2.6	5.9	14.2	4.5	7.7
22	---	---	---	16.4	3.4	6.7	11.2	2.4	5.3	12.8	4.3	7.2
23	---	---	---	10.1	1.5	5.2	11.2	2.2	5.6	14.9	4.8	8.2
24	9.4	2.3	4.7	8.0	2.3	4.7	10.7	3.0	5.4	11.1	5.5	7.4
25	9.8	3.0	5.4	9.1	2.9	4.7	29.7	3.7	7.4	13.4	4.9	7.3
26	10.4	3.1	6.1	10.1	2.6	4.8	8.6	4.7	6.3	16.4	4.4	8.9
27	18.9	4.1	6.7	9.1	2.6	4.7	10.1	4.3	6.2	11.1	4.7	7.2
28	12.5	3.5	5.9	11.0	2.2	4.7	11.3	3.8	6.0	8.4	3.1	5.7
29	9.8	2.9	5.4	16.0	2.8	5.4	8.5	3.4	5.6	11.9	4.3	6.4
30	14.1	3.6	7.1	12.6	3.4	6.6	10.5	3.2	5.7	11.6	3.1	6.1
31	---	---	---	18.6	4.1	7.8	8.5	3.1	5.7	---	---	---
MONTH	---	---	---	18.6	1.5	5.9	29.7	2.2	6.3	23.0	3.0	7.8

0209270680 GALLANT CHANNEL AT AIRPORT AT BEAUFORT, NC—Continued

CHLOROPHYLL, TOTAL, WATER, FLUOROMETRIC, 650-700 NANOMETERS, IN-SITU SENSOR, MICROGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.5	3.8	6.2	---	---	---	7.9	3.6	5.5	7.7	2.8	5.0
2	16.7	5.1	8.1	---	---	---	8.3	3.9	5.6	6.3	3.1	4.6
3	12.2	5.3	7.9	---	---	---	7.4	3.8	5.3	6.3	2.9	4.2
4	12.1	5.3	7.7	---	---	---	8.9	4.1	6.3	5.3	3.0	4.1
5	10.2	5.2	7.2	---	---	---	8.4	3.6	5.8	6.0	2.5	4.0
6	11.0	4.9	7.3	---	---	---	8.3	4.1	5.5	6.0	3.1	4.3
7	11.7	4.8	6.9	---	---	---	7.7	4.1	5.4	6.7	3.0	4.3
8	11.1	4.0	6.5	---	---	---	8.5	4.1	5.6	9.0	3.4	5.3
9	11.9	5.3	8.4	---	---	---	9.2	3.1	5.4	9.4	3.9	6.2
10	10.7	6.4	8.9	---	---	---	7.7	4.2	5.5	14.4	4.1	6.2
11	10.2	6.1	8.1	5.1	2.2	3.5	9.8	3.8	6.1	23.9	3.9	7.9
12	8.0	4.3	6.0	5.4	2.0	3.4	9.4	3.6	5.2	15.5	4.0	7.4
13	6.4	4.2	5.1	5.6	2.1	3.6	8.4	3.0	4.6	12.3	4.3	7.2
14	5.7	3.1	4.3	6.6	2.1	3.8	6.3	2.7	4.2	8.5	3.9	5.9
15	6.0	2.5	3.9	7.2	2.4	4.3	6.7	2.3	3.8	10.3	4.3	7.8
16	7.3	2.5	4.3	12.4	2.6	4.6	6.3	2.9	4.2	7.6	2.9	4.7
17	8.9	3.3	5.1	6.7	2.3	4.5	8.0	3.4	5.1	6.0	2.4	4.0
18	10.4	3.6	6.4	6.7	2.8	4.3	15.4	3.9	7.9	7.1	2.4	3.8
19	9.7	3.6	6.4	6.9	2.7	4.3	18.5	6.1	10.1	6.7	3.4	4.7
20	10.8	4.3	6.6	7.5	3.0	4.8	15.9	7.0	10.6	5.8	3.0	4.2
21	7.9	3.0	5.6	5.8	2.9	4.0	17.6	6.7	10.9	6.3	2.9	4.3
22	6.7	3.2	4.8	6.8	3.3	5.0	16.9	5.9	10.9	8.5	2.7	4.6
23	9.2	4.0	5.8	6.7	4.1	5.4	18.7	6.7	10.5	7.9	3.6	5.3
24	7.6	3.5	5.0	5.8	3.5	4.4	16.1	6.6	9.4	8.5	3.9	5.3
25	11.9	5.7	8.6	6.6	3.2	4.8	11.9	5.1	8.2	7.6	3.5	5.5
26	11.4	6.8	9.3	7.9	3.7	4.9	12.1	5.7	8.0	7.2	4.4	5.9
27	---	---	---	6.8	3.7	4.8	14.5	5.5	8.0	8.4	3.5	5.5
28	---	---	---	5.8	3.5	4.4	14.5	4.5	6.8	7.6	2.7	4.5
29	---	---	---	6.9	3.3	4.5	11.2	4.4	6.3	5.9	2.3	4.1
30	---	---	---	7.5	3.4	5.3	9.6	4.0	5.6	5.2	2.2	3.6
31	---	---	---	---	---	---	9.2	3.8	5.8	5.6	3.0	3.9
MONTH	---	---	---	---	---	---	18.7	2.3	6.7	23.9	2.2	5.1
		FEBRUARY			MARCH			APRIL			MAY	
1	9.7	2.2	3.9	---	---	---	---	---	---	---	---	---
2	4.8	2.0	3.2	---	---	---	---	---	---	---	---	---
3	4.7	2.1	3.0	---	---	---	---	---	---	---	---	---
4	4.8	2.2	3.3	---	---	---	---	---	---	---	---	---
5	4.9	2.7	3.8	---	---	---	---	---	---	---	---	---
6	5.7	3.3	4.2	---	---	---	---	---	---	---	---	---
7	5.7	2.9	4.2	---	---	---	---	---	---	---	---	---
8	8.3	2.6	4.5	---	---	---	---	---	---	---	---	---
9	7.6	3.5	4.8	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

02093000 NEW RIVER NEAR GUM BRANCH, NC

LOCATION.--Lat 34°50'57", long 77°31'10", Onslow County, Hydrologic Unit 03030001, on right bank 5 ft downstream of Secondary Road 1314, 0.7 mi downstream of Jenkins Swamp, 1.8 mi southwest of Gum Branch, and 3.8 mi southeast of Richlands.

DRAINAGE AREA.--94 mi^2.

PERIOD OF RECORD.--August 1949 to September 1973. July 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929 (levels by U.S. Army Corps of Engineers). Aug. 19, 1949, to Mar. 22, 1950, nonrecording gage and Mar. 23, 1950, to Mar. 25, 1969, water-stage recorder at site 0.2 mi upstream at 2.52 ft. Mar. 26, 1969, to Sept. 1973 water-stage recorder at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good except those below 150 ft^3/s, which are poor. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s by logarithmic plotting. Low flows affected by tide. Minimum discharge for current water year also occurred Sept. 11.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1908 reached a stage of about 18 ft at former site and datum, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	91	34	159	76	121	228	115	26	41	95	276	20
2	105	28	130	69	103	170	268	25	64	64	132	18
3	91	33	109	65	95	134	349	22	78	284	84	15
4	80	33	92	58	120	109	219	23	72	171	64	16
5	70	37	81	53	114	97	150	22	68	133	47	18
6	59	29	75	51	104	90	121	283	74	89	34	22
7	52	26	74	52	92	82	105	540	175	63	28	25
8	50	27	69	47	85	80	163	355	99	53	26	25
9	47	25	65	44	82	75	173	223	136	39	31	27
10	40	27	80	42	90	68	148	154	453	35	36	17
11	40	25	94	45	77	64	122	110	240	31	109	18
12	43	37	74	43	68	69	99	89	124	28	45	24
13	109	310	69	41	63	58	90	121	80	28	31	37
14	175	188	59	142	57	52	141	101	60	55	25	100
15	130	126	49	198	56	48	142	87	49	119	21	381
16	150	100	45	133	54	47	105	72	39	80	20	224
17	99	83	45	144	55	93	91	101	33	48	21	133
18	80	72	45	112	50	117	80	81	33	37	24	90
19	73	68	45	97	46	100	64	74	31	28	25	113
20	71	62	44	93	44	110	52	65	28	32	27	73
21	61	52	41	87	44	102	45	123	28	56	28	48
22	63	52	40	83	50	84	41	106	25	37	28	37
23	62	91	50	82	48	122	40	92	23	61	28	30
24	62	152	79	71	134	121	34	77	22	42	27	29
25	69	137	59	70	165	97	30	89	24	32	26	29
26	70	118	116	72	125	88	29	84	50	27	26	33
27	63	94	179	66	111	82	29	72	72	24	26	36
28	53	325	128	54	217	235	27	59	42	20	25	32
29	49	307	111	52	---	310	25	44	165	34	28	27
30	43	209	96	120	---	187	25	37	238	29	32	23
31	41	---	84	148	---	135	---	38	---	106	31	---
TOTAL	2,291	2,907	2,486	2,510	2,470	3,454	3,122	3,395	2,666	1,980	1,411	1,720
MEAN	73.9	96.9	80.2	81.0	88.2	111	104	110	88.9	63.9	45.5	57.3
MAX	175	325	179	198	217	310	349	540	453	284	276	381
MIN	40	25	40	41	44	47	25	22	22	20	20	15
CFSM	0.79	1.03	0.85	0.86	0.94	1.19	1.11	1.17	0.95	0.68	0.48	0.61
IN.	0.91	1.15	0.98	0.99	0.98	1.37	1.24	1.34	1.06	0.78	0.56	0.68

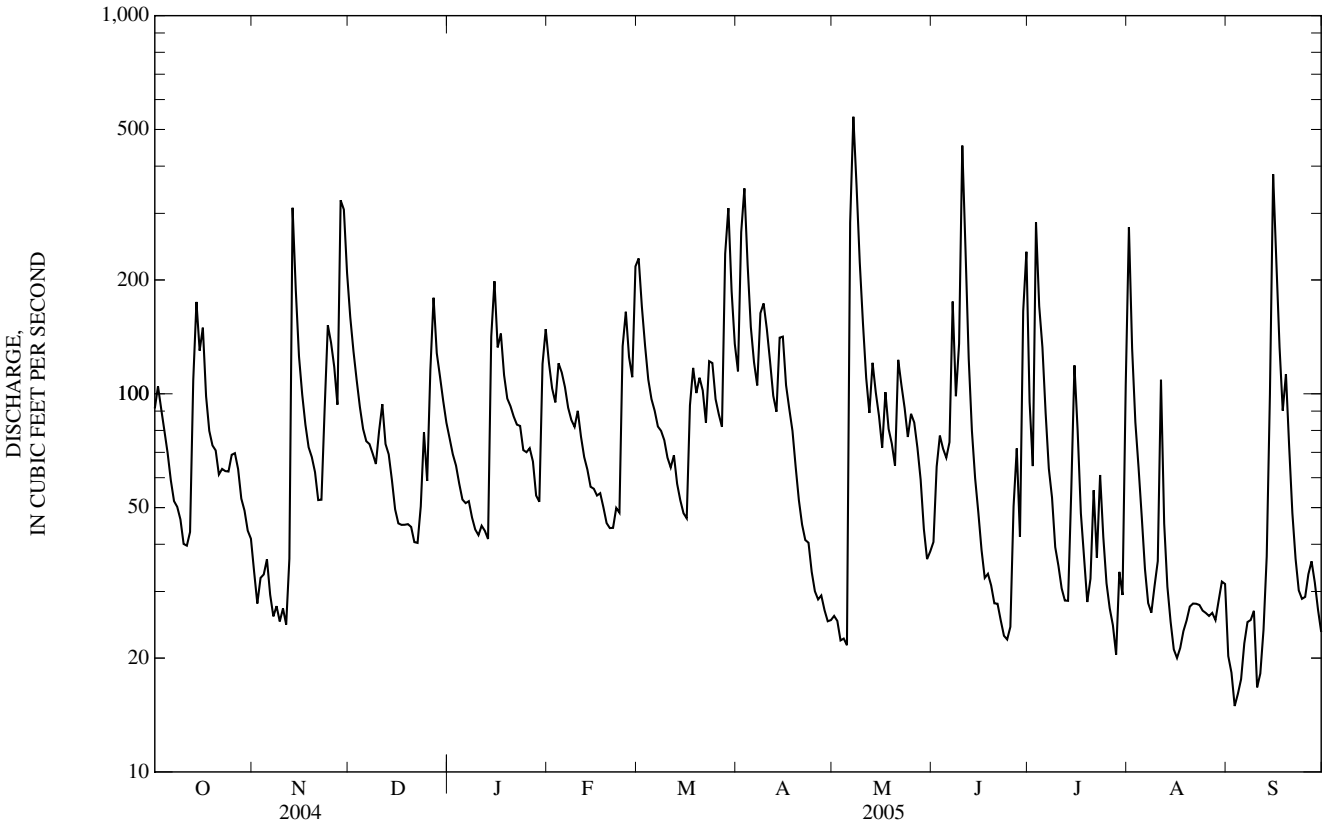
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005,@ BY WATER YEAR (WY)

MEAN	84.0	65.4	93.2	149	173	179	116	73.1	94.9	118	113	123
MAX	553	190	277	374	584	418	377	188	423	717	734	1,110
(WY)	(1972)	(1970)	(1958)	(1993)	(1998)	(1959)	(1973)	(1969)	(1961)	(1962)	(1955)	(1999)
MIN	2.01	4.30	13.3	32.4	33.1	27.7	21.0	16.4	11.3	7.21	6.25	4.25
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1957)	(1970)	(1993)	(1954)	(1954)

02093000 NEW RIVER NEAR GUM BRANCH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005[@]	
ANNUAL TOTAL	46,882		30,412			
ANNUAL MEAN	128		83.3		115	
HIGHEST ANNUAL MEAN					208	1972
LOWEST ANNUAL MEAN					52.6	2002
HIGHEST DAILY MEAN	2,110	Aug 16	540	May 7	10,100	Sep 16, 1999
LOWEST DAILY MEAN	19	May 29	15	Sep 3	1.3	Aug 18, 2002
ANNUAL SEVEN-DAY MINIMUM	21	Jul 16	19	Sep 1	2.0	Oct 4, 1954
MAXIMUM PEAK FLOW			581	May 7	15,000*	Sep 16, 1999
MAXIMUM PEAK STAGE			8.28	May 7	25.12	Sep 16, 1999
INSTANTANEOUS LOW FLOW			11*	Sep 10	0.62*	Aug 19, 2002
ANNUAL RUNOFF (CFSM)	1.36		0.886		1.23	
ANNUAL RUNOFF (INCHES)	18.55		12.04		16.66	
10 PERCENT EXCEEDS	258		153		247	
50 PERCENT EXCEEDS	78		65		55	
90 PERCENT EXCEEDS	32		26		13	

[@] See PERIOD OF RECORD.
* See REMARKS.



02093800 REEDY FORK NEAR OAK RIDGE, NC

LOCATION.--Lat 36°10'21", long 79°57'10", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 2128, 0.8 mi downstream from Beaver Creek, and 2 mi east of Oak Ridge.

DRAINAGE AREA.--20.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1955 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 771.30 ft above NGVD of 1929. Prior to Dec. 13, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records poor. Some diurnal fluctuation at medium and low flows caused by upstream mill. Maximum discharge for period of record, from rating curve extended above 1,500 ft^3/s on basis of contracted-opening measurement; gage height: 10.94 ft. Minimum discharge for period of record also occurred Aug. 13, 14, 15, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	11	22	14	17	43	33	36	7.8	6.6	11	3.0
2	24	11	19	13	16	24	41	19	22	6.3	7.1	e3.0
3	20	11	16	13	36	19	30	14	25	6.0	6.6	e2.8
4	16	44	15	13	39	16	23	13	17	11	5.6	e2.6
5	13	20	14	13	24	15	22	12	12	8.0	5.3	e2.5
6	12	13	14	14	19	13	21	18	9.6	6.5	7.9	e2.4
7	11	11	16	13	18	13	22	14	9.6	16	7.4	e2.5
8	11	11	14	13	16	21	23	12	52	42	6.2	e2.3
9	10	9.6	42	12	16	16	23	11	24	11	17	2.1
10	10	9.8	337	12	16	13	19	11	20	7.4	11	1.9
11	9.8	9.8	126	12	14	12	18	10	13	7.8	7.1	1.8
12	9.6	95	65	13	13	12	18	10	11	6.8	6.0	1.9
13	10	84	42	12	13	11	22	12	11	6.5	5.4	1.8
14	10	31	30	129	20	12	22	11	9.8	15	5.9	1.9
15	9.6	22	24	47	17	11	17	12	8.6	30	5.1	1.9
16	9.1	18	22	30	15	16	16	11	7.8	11	4.6	2.4
17	8.7	16	20	23	13	34	15	9.9	7.2	7.5	4.6	3.1
18	8.7	15	19	19	12	26	15	9.2	7.0	6.9	5.3	2.6
19	9.3	14	18	17	11	18	15	9.2	6.9	6.3	6.5	2.3
20	10	14	16	18	12	15	15	11	6.7	6.8	5.7	2.7
21	9.9	13	15	19	13	13	14	13	6.6	5.9	7.5	2.2
22	10	13	15	17	12	12	14	10	6.6	6.8	5.0	2.4
23	9.9	25	31	16	11	44	17	12	6.3	8.0	4.3	2.2
24	11	45	25	15	21	48	13	10	6.0	5.7	4.1	2.1
25	11	67	18	16	16	25	13	10	5.9	5.2	3.8	2.3
26	10	31	16	16	12	19	13	9.1	5.9	4.9	3.6	2.8
27	10	24	15	14	12	17	13	8.2	6.1	4.6	3.6	3.1
28	11	55	14	13	48	220	12	8.1	13	4.5	3.9	2.5
29	11	28	15	14	---	103	17	7.9	8.4	14	3.7	2.3
30	12	22	15	26	---	53	16	7.8	7.3	11	3.6	2.1
31	11	---	14	25	---	40	---	7.6	---	12	3.3	---
TOTAL	368.6	793.2	1,084	641	502	954	572	369.0	360.1	308.0	187.7	71.5
MEAN	11.9	26.4	35.0	20.7	17.9	30.8	19.1	11.9	12.0	9.94	6.05	2.38
MAX	30	95	337	129	48	220	41	36	52	42	17	3.1
MIN	8.7	9.6	14	12	11	11	12	7.6	5.9	4.5	3.3	1.8
CFSM	0.58	1.28	1.70	1.00	0.87	1.49	0.93	0.58	0.58	0.48	0.29	0.12
IN.	0.67	1.43	1.96	1.16	0.91	1.72	1.03	0.67	0.65	0.56	0.34	0.13

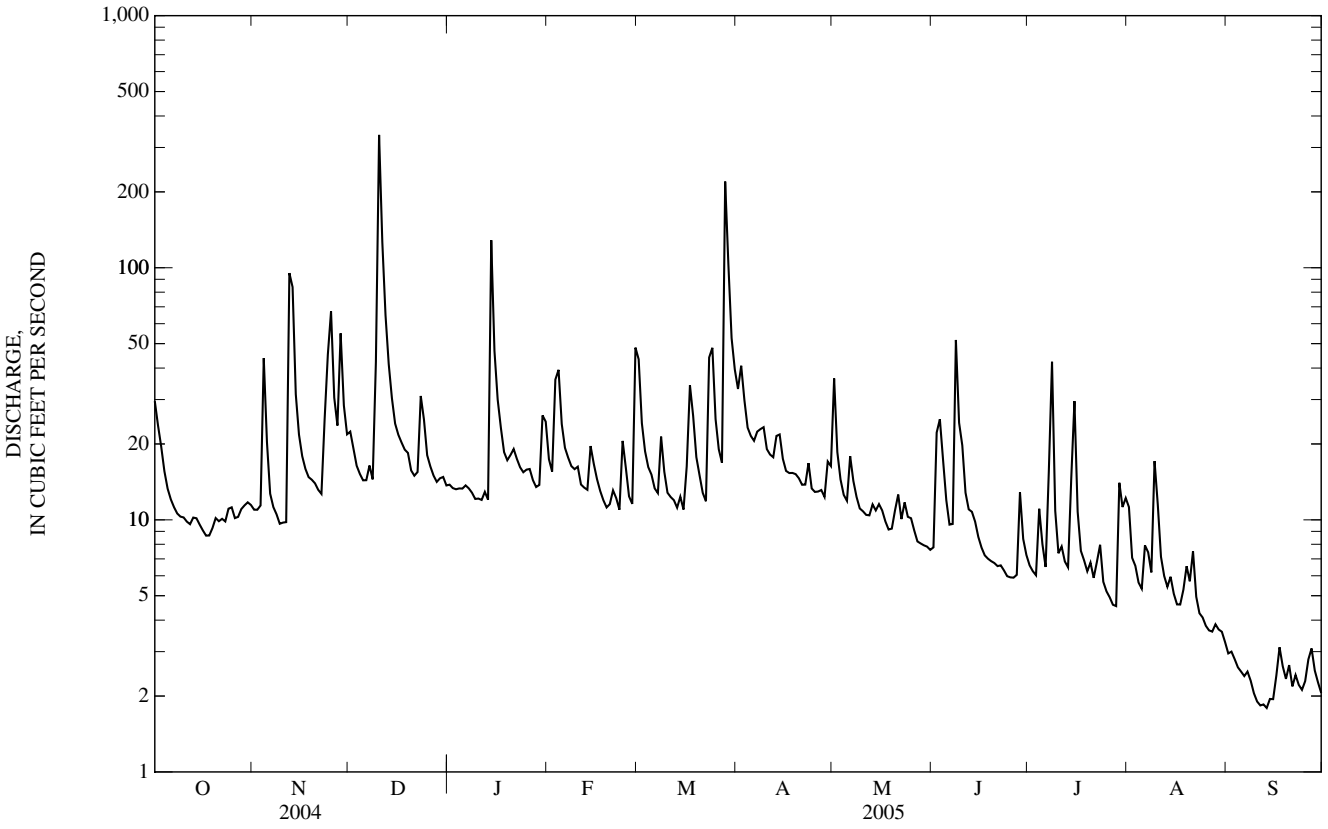
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1956 - 2005, BY WATER YEAR (WY)

MEAN	18.2	17.8	23.6	29.7	34.3	37.4	29.7	22.6	18.8	18.4	16.6	19.6
MAX	80.2	40.4	48.7	82.0	78.7	102	75.8	58.9	74.4	152	62.0	100
(WY)	(1991)	(1986)	(1963)	(1978)	(1979)	(1975)	(1987)	(1991)	(1982)	(1984)	(1978)	(1996)
MIN	5.90	5.87	8.67	8.52	12.8	12.4	8.41	5.13	2.94	3.33	1.58	2.38
(WY)	(1968)	(2002)	(1956)	(1956)	(2002)	(1967)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1956 - 2005	
ANNUAL TOTAL	7,561.5		6,211.1			
ANNUAL MEAN	20.7		17.0		23.8	
HIGHEST ANNUAL MEAN					44.8	2003
LOWEST ANNUAL MEAN					8.39	2002
HIGHEST DAILY MEAN	566	Sep 28	337	Dec 10	1,250	Jul 28, 1984
LOWEST DAILY MEAN	4.2	Aug 11	1.8	Sep 11	0.61	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.7	Aug 5	1.9	Sep 9	0.70	Aug 9, 2002
MAXIMUM PEAK FLOW			572	Dec 10	3,950*	Oct 10, 1959
MAXIMUM PEAK STAGE			9.12	Dec 10	12.41	Sep 22, 1979
INSTANTANEOUS LOW FLOW			0.97	Sep 21	0.50*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.00		0.826		1.16	
ANNUAL RUNOFF (INCHES)	13.65		11.22		15.72	
10 PERCENT EXCEEDS	30		30		38	
50 PERCENT EXCEEDS	14		12		14	
90 PERCENT EXCEEDS	6.4		3.9		6.7	

* See REMARKS.
e Estimated.



02093800 REEDY FORK NEAR OAK RIDGE, NC—Continued

PRECIPITATION RECORDS

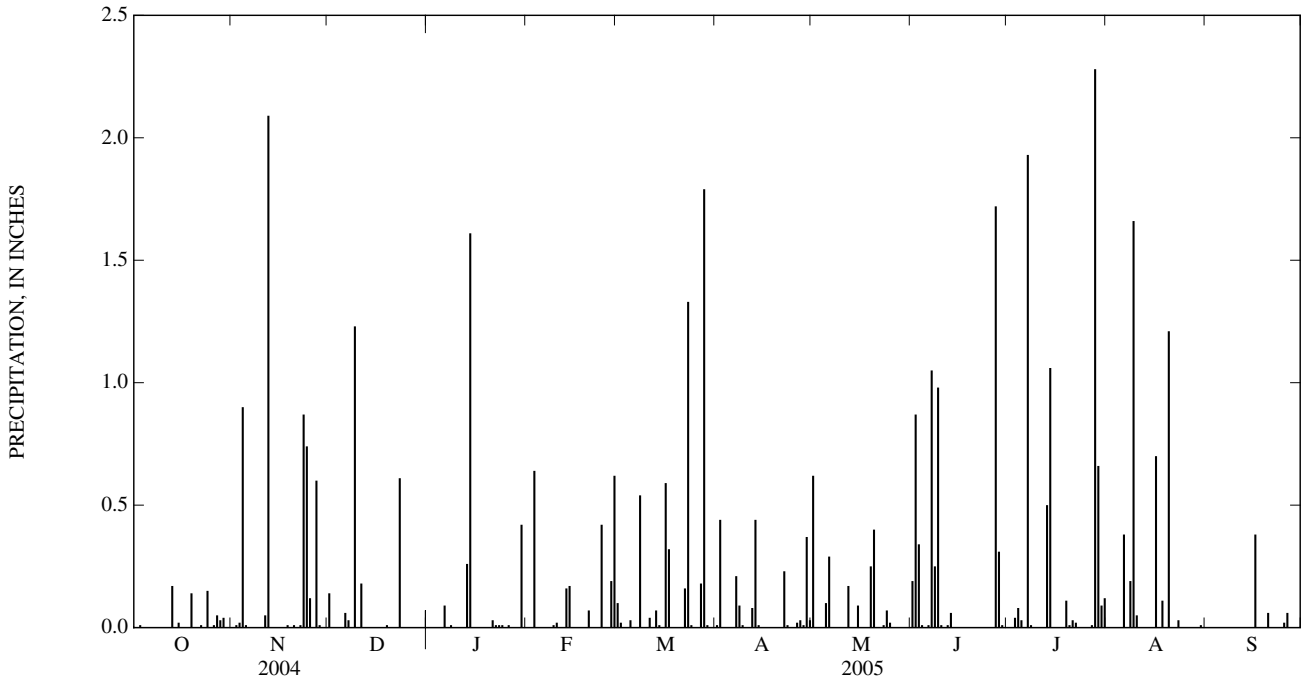
PERIOD OF RECORD.--November 1999 to current year. Records for November 1999 to September 2000 are unpublished and available at the USGS Water Science Center in Raleigh, NC.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.10	0.01	0.62	0.19	0.00	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.02	0.44	0.00	0.87	0.00	0.00	0.00
3	0.01	0.02	0.00	0.00	0.64	0.00	0.00	0.00	0.34	0.04	0.00	0.00
4	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.10	0.00	0.03	0.00	0.00
6	0.00	0.00	0.06	0.09	0.00	0.00	0.00	0.29	0.01	0.00	0.38	0.00
7	0.00	0.00	0.03	0.00	0.00	0.00	0.21	0.00	1.05	1.93	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.54	0.09	0.00	0.25	0.01	0.19	0.00
9	0.00	0.00	1.23	0.00	0.01	0.00	0.01	0.00	0.98	0.00	1.66	0.00
10	0.00	0.00	---	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.05	0.00
11	0.00	0.05	0.18	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	2.09	0.00	0.00	0.00	0.00	0.08	0.17	0.01	0.00	0.00	0.00
13	0.17	0.00	0.00	0.26	0.16	0.07	0.44	0.00	0.06	0.50	0.00	0.00
14	0.00	0.00	0.00	1.61	0.17	0.01	0.01	0.00	0.00	1.06	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.70	0.38
17	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
19	0.14	0.00	0.01	0.00	0.00	0.00	0.00	0.25	0.00	0.11	0.00	0.00
20	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.40	0.00	0.01	1.21	0.06
21	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
22	0.01	0.01	0.00	0.01	0.00	0.16	0.23	0.00	0.00	0.02	0.00	0.00
23	0.00	0.87	0.61	0.01	0.00	1.33	0.01	0.01	0.00	0.00	0.03	0.00
24	0.15	0.74	0.00	0.01	0.42	0.01	0.00	0.07	0.00	0.00	0.00	0.00
25	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.02
26	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.06
27	0.05	0.60	0.00	0.00	0.19	0.18	0.03	0.00	1.72	0.01	0.00	0.00
28	0.03	0.01	0.00	0.00	0.62	1.79	0.01	0.00	0.31	2.28	0.00	0.00
29	0.04	0.00	0.00	0.00	---	0.01	0.37	0.00	0.01	0.66	0.00	0.00
30	0.00	0.00	0.00	0.42	---	0.00	0.03	0.00	0.00	0.09	0.01	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.12	0.00	---
TOTAL	0.63	5.45	---	2.46	2.30	5.20	1.99	2.02	5.82	6.98	4.34	0.52



02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC

LOCATION.--Lat 36°27'41", long 79°55'26", Guilford County, Hydrologic Unit 03030002, on right bank on downstream side of culvert on Muirfield Road and 1.8 mi upstream from Lake Higgins.

DRAINAGE AREA.--7.42 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2004 to September 2005.

GAGE.--Water-stage recorder. Elevation of gage is 790 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for 2004 water year also occurred July 17.

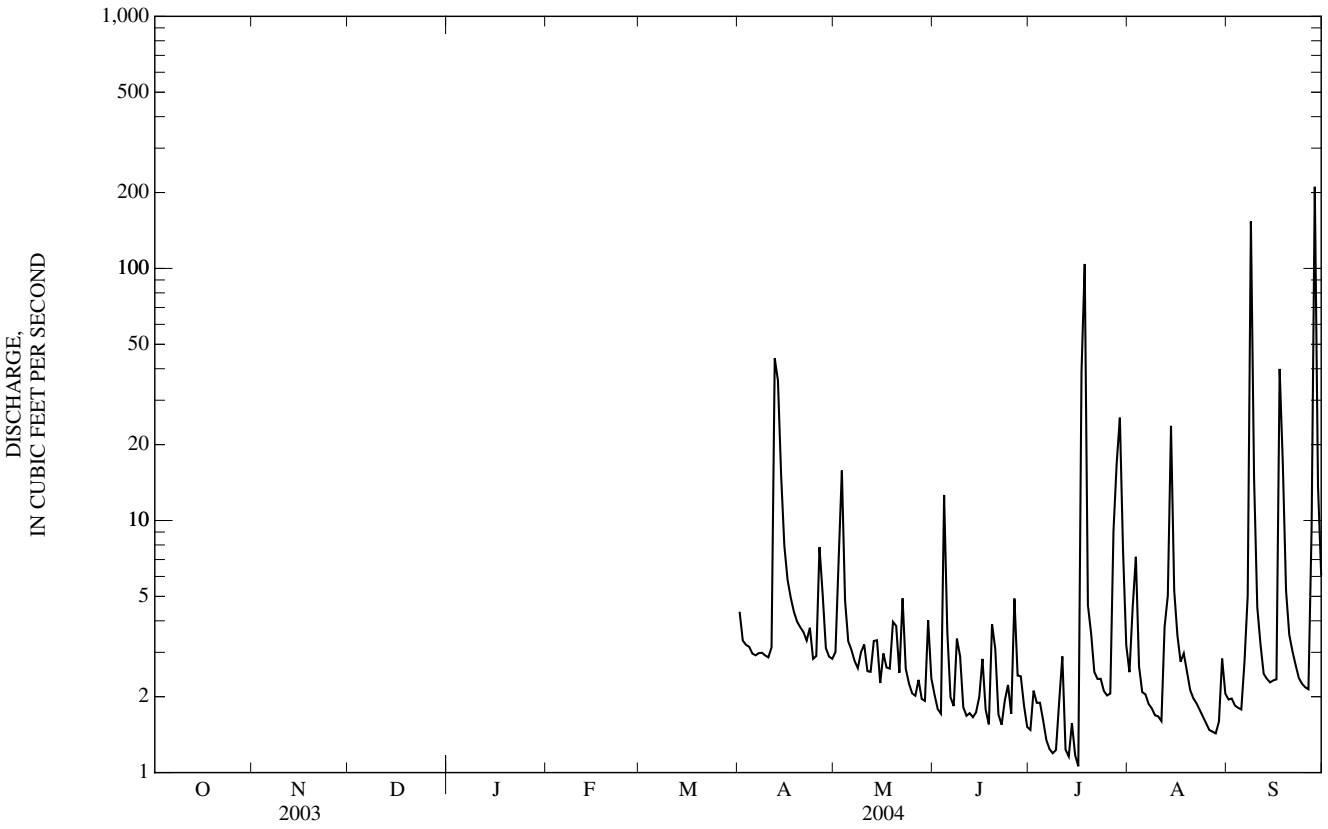
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	4.3	3.0	2.0	1.5	2.5	e1.9
2	---	---	---	---	---	---	3.3	7.0	1.8	2.1	4.5	e2.0
3	---	---	---	---	---	---	3.2	16	1.7	1.9	7.2	1.8
4	---	---	---	---	---	---	3.2	4.8	13	1.9	2.6	1.8
5	---	---	---	---	---	---	3.0	3.3	3.6	1.6	2.1	1.8
6	---	---	---	---	---	---	2.9	3.1	2.0	1.3	2.0	2.8
7	---	---	---	---	---	---	3.0	2.8	1.8	1.2	1.9	5.0
8	---	---	---	---	---	---	3.0	2.6	3.4	1.2	1.8	154
9	---	---	---	---	---	---	2.9	3.0	2.9	1.2	1.7	15
10	---	---	---	---	---	---	2.9	3.2	1.8	1.9	1.7	4.5
11	---	---	---	---	---	---	3.1	2.5	1.7	2.9	1.6	3.2
12	---	---	---	---	---	---	44	2.5	1.7	1.2	3.8	2.5
13	---	---	---	---	---	---	36	3.3	1.7	1.2	5.0	2.4
14	---	---	---	---	---	---	15	3.3	1.7	1.6	24	2.3
15	---	---	---	---	---	---	7.9	2.3	2.0	1.2	5.3	2.3
16	---	---	---	---	---	---	5.8	3.0	2.8	1.1	e3.5	2.3
17	---	---	---	---	---	---	4.9	2.6	1.8	39	e2.8	40
18	---	---	---	---	---	---	4.3	2.6	1.6	104	e3.0	17
19	---	---	---	---	---	---	4.0	4.0	3.9	4.6	e2.5	5.3
20	---	---	---	---	---	---	3.8	3.8	e3.1	3.6	e2.1	3.5
21	---	---	---	---	---	---	3.6	2.5	e1.7	2.5	e2.0	3.0
22	---	---	---	---	---	---	3.3	4.9	1.5	2.4	e1.9	2.7
23	---	---	---	---	---	---	3.8	2.6	1.9	2.4	e1.8	2.4
24	---	---	---	---	---	---	2.8	2.3	2.2	2.1	e1.7	2.3
25	---	---	---	---	---	---	2.9	2.1	1.7	2.0	e1.6	2.2
26	---	---	---	---	---	---	7.8	2.0	4.9	2.1	e1.5	2.1
27	---	---	---	---	---	---	5.1	2.3	2.4	9.1	e1.5	9.3
28	---	---	---	---	---	---	3.1	2.0	2.4	17	e1.4	211
29	---	---	---	---	---	---	2.9	1.9	1.8	26	e1.6	14
30	---	---	---	---	---	---	2.8	4.0	1.5	7.5	e2.8	6.0
31	---	---	---	---	---	---	---	2.4	---	3.2	e2.1	---
MEAN	---	---	---	---	---	---	6.62	3.47	2.60	8.15	3.27	17.5
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)												
MEAN	---	---	---	---	---	---	6.62	3.47	2.60	8.15	3.27	17.5

SUMMARY STATISTICS	FOR 2004 WATER YEAR	
MAXIMUM PEAK STAGE	8.93	Jul 18
MAXIMUM PEAK FLOW	NOT DETERMINED	
INSTANTANEOUS LOW FLOW	0.98*	Jul 16
10 PERCENT EXCEEDS	8.6	
50 PERCENT EXCEEDS	2.6	
90 PERCENT EXCEEDS	1.6	

* See REMARKS.
e Estimated.

02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued



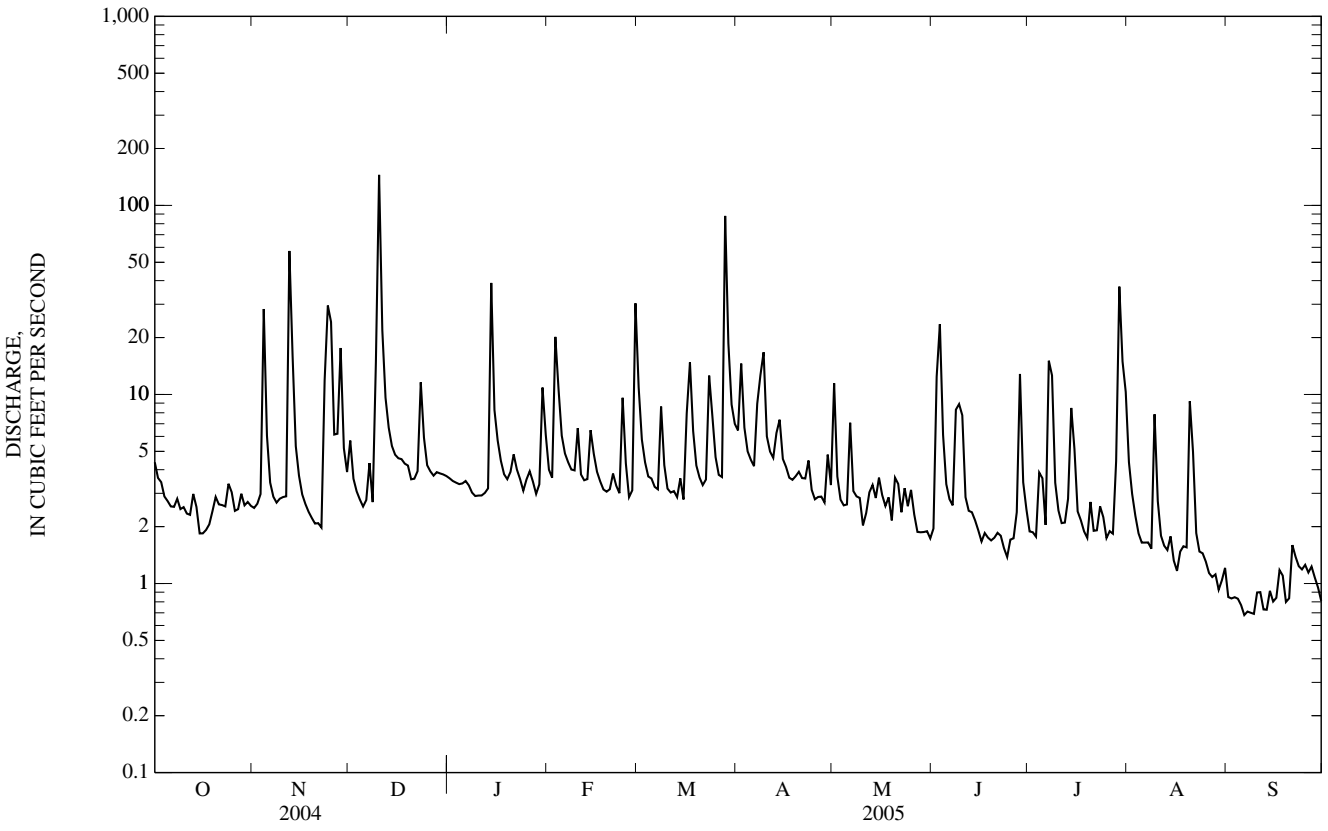
02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2.5	5.7	3.6	4.0	11	6.5	11	2.0	1.9	4.4	0.85
2	3.6	2.6	3.6	3.5	3.6	5.8	15	3.7	12	1.9	3.0	0.83
3	3.4	3.0	3.1	3.4	20	4.4	6.7	2.8	24	1.8	2.3	0.85
4	2.9	28	2.8	3.4	11	3.7	5.0	2.6	6.1	3.9	1.8	0.83
5	2.7	6.1	2.6	3.4	6.1	3.6	4.5	2.6	3.4	3.6	1.6	0.77
6	2.6	3.4	2.8	3.5	4.9	3.2	4.2	7.1	2.8	2.0	1.6	0.68
7	2.5	2.9	4.3	3.3	4.4	3.2	8.9	3.1	2.6	15	1.6	0.71
8	2.8	2.7	2.7	3.0	4.0	8.6	13	2.9	8.3	13	1.5	0.70
9	2.5	2.8	15	2.9	4.0	4.2	17	2.8	8.9	3.4	7.9	0.69
10	2.5	2.9	145	2.9	6.6	3.2	6.0	2.0	7.8	2.4	2.7	0.90
11	2.3	2.9	22	2.9	3.8	3.0	5.0	2.4	2.9	2.1	1.8	0.90
12	2.3	57	9.6	3.0	3.5	3.1	4.6	3.0	2.4	2.1	1.6	0.73
13	3.0	16	6.7	3.2	3.6	2.9	6.3	3.3	2.4	2.8	1.5	0.73
14	2.5	5.3	5.3	39	6.5	3.6	7.4	2.8	2.2	8.5	1.8	0.91
15	1.8	3.7	4.8	8.3	4.8	2.8	4.6	3.6	1.9	5.1	1.3	0.80
16	1.8	3.0	4.6	5.7	3.9	7.9	4.1	2.9	1.7	2.4	1.2	0.84
17	1.9	2.6	4.5	4.5	3.5	15	3.6	2.6	1.9	2.2	1.5	1.2
18	2.1	2.4	4.3	3.8	3.1	6.4	3.5	2.9	1.7	1.9	1.6	1.1
19	2.4	2.2	4.2	3.6	3.1	4.2	3.7	2.2	1.7	1.7	1.6	0.80
20	2.9	2.1	3.6	3.9	3.2	3.6	3.9	3.6	1.7	2.7	9.2	0.84
21	2.6	2.1	3.6	4.8	3.8	3.3	3.6	3.4	1.9	1.9	5.0	1.6
22	2.6	2.0	3.9	4.0	3.3	3.5	3.6	2.4	1.8	1.9	1.8	1.4
23	2.6	12	12	3.6	3.0	13	4.5	3.2	1.5	2.6	1.5	1.2
24	3.4	30	5.9	3.1	9.6	7.7	3.1	2.6	1.4	2.2	1.4	1.2
25	3.0	24	4.2	3.6	4.3	4.7	2.8	3.1	1.7	1.7	1.3	1.3
26	2.4	6.1	3.9	3.9	2.9	3.8	2.9	2.3	1.7	1.9	1.1	1.1
27	2.5	6.2	3.7	3.5	3.1	3.7	2.9	1.9	2.4	1.8	1.1	1.2
28	3.0	18	3.9	3.0	30	88	2.7	1.9	13	4.4	1.1	1.1
29	2.6	5.2	3.8	3.3	---	19	4.8	1.9	3.4	37	0.93	0.95
30	2.7	3.9	3.8	11	---	8.8	3.3	1.9	2.5	15	1.0	0.81
31	2.6	---	3.7	6.1	---	7.0	---	1.7	---	10	1.2	---
MEAN	2.67	8.79	9.99	5.18	5.99	8.58	5.59	3.10	4.32	5.19	2.22	0.95
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)												
MEAN	2.67	8.79	9.99	5.18	5.99	8.58	6.11	3.29	3.46	6.67	2.75	9.25

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL MEAN			5.21		5.21	
HIGHEST DAILY MEAN	211	Sep 28	145	Dec 10	211	Sep 28, 2004
LOWEST DAILY MEAN	1.1	Jul 16	0.68	Sep 6	0.68	Sep 6, 2005
ANNUAL SEVEN-DAY MINIMUM	1.5	Jul 3	0.75	Sep 3	0.75	Sep 3, 2005
MAXIMUM PEAK STAGE			7.67	Dec 10	8.93	Jul 18, 2004
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
INSTANTANEOUS LOW FLOW			0.46	Sep 19	0.46	Sep 19, 2005
10 PERCENT EXCEEDS			9.0		9.0	
50 PERCENT EXCEEDS			3.1		3.1	
90 PERCENT EXCEEDS			1.3		1.3	

02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued



02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued

PRECIPITATION RECORDS

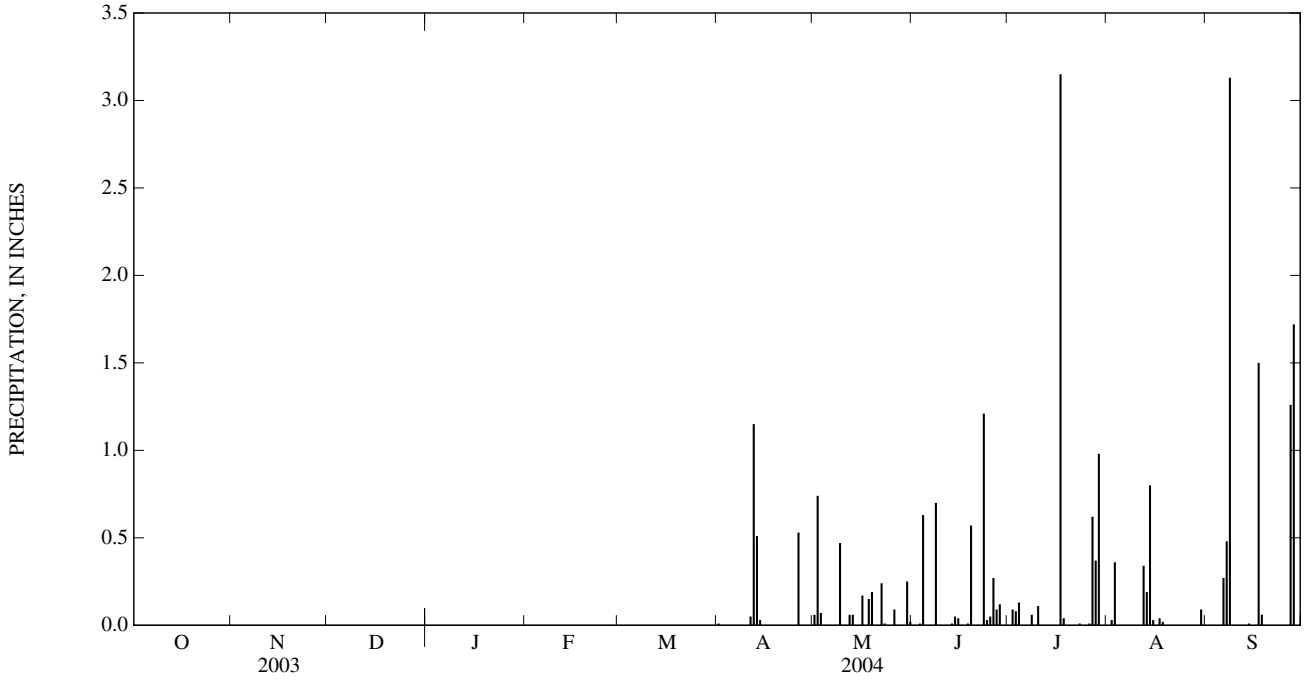
PERIOD OF RECORD.--April 2004 to September 2005.

GAGE.--Tipping bucket raingage and data collection platform. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY SUM VALUES

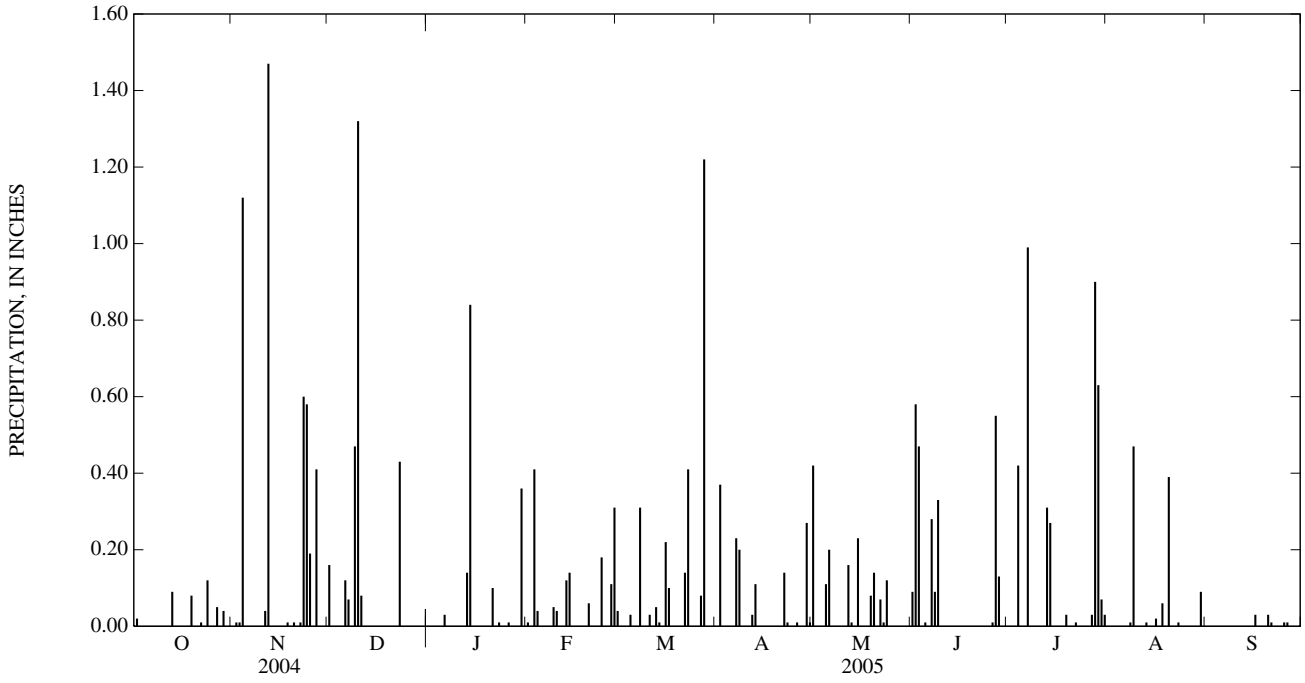
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	0.01	0.06	0.00	0.00	0.00	0.00
2	---	---	---	---	---	---	0.00	0.74	0.00	0.09	0.03	0.00
3	---	---	---	---	---	---	0.00	0.07	0.01	0.08	0.36	0.00
4	---	---	---	---	---	---	0.00	0.00	0.63	0.13	0.00	0.00
5	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.00
6	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.27
7	---	---	---	---	---	---	0.00	0.00	0.00	0.00	0.00	0.48
8	---	---	---	---	---	---	0.00	0.00	0.70	0.06	0.00	3.13
9	---	---	---	---	---	---	0.00	0.47	0.00	0.00	0.00	0.00
10	---	---	---	---	---	---	0.00	0.00	0.00	0.11	0.00	0.00
11	---	---	---	---	---	---	0.05	0.00	0.00	0.00	0.00	0.00
12	---	---	---	---	---	---	1.15	0.06	0.00	0.00	0.34	0.00
13	---	---	---	---	---	---	0.51	0.06	0.01	0.00	0.19	0.00
14	---	---	---	---	---	---	0.03	0.00	0.05	0.00	0.80	0.01
15	---	---	---	---	---	---	0.00	0.00	0.04	0.00	0.03	0.00
16	---	---	---	---	---	---	0.00	0.17	0.00	0.00	0.00	0.00
17	---	---	---	---	---	---	0.00	0.00	0.00	3.15	0.04	1.50
18	---	---	---	---	---	---	0.00	0.15	0.01	0.04	0.02	0.06
19	---	---	---	---	---	---	0.00	0.19	0.57	0.00	0.00	0.00
20	---	---	---	---	---	---	0.00	0.00	---	0.00	0.00	0.00
21	---	---	---	---	---	---	0.00	0.00	---	0.00	0.00	0.00
22	---	---	---	---	---	---	0.00	0.24	0.00	0.00	0.00	0.00
23	---	---	---	---	---	---	0.00	0.01	1.21	0.01	0.00	0.00
24	---	---	---	---	---	---	0.00	0.00	0.03	0.00	0.00	0.00
25	---	---	---	---	---	---	0.00	0.00	0.05	0.00	0.00	0.00
26	---	---	---	---	---	---	0.53	0.09	0.27	0.01	0.00	0.00
27	---	---	---	---	---	---	0.00	0.00	0.09	0.62	0.00	1.26
28	---	---	---	---	---	---	0.00	0.00	0.12	0.37	0.00	1.72
29	---	---	---	---	---	---	0.00	0.00	0.00	0.98	0.00	0.00
30	---	---	---	---	---	---	0.00	0.25	0.00	0.00	0.09	0.00
31	---	---	---	---	---	---	---	0.02	---	0.00	0.00	---
TOTAL	---	---	---	---	---	---	2.28	2.58	---	5.65	1.90	8.43



02093877 BRUSH CREEK AT MUIRFIELD ROAD NEAR GREENSBORO, NC—Continued

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.16	0.00	0.01	0.04	0.00	0.42	0.09	0.00	0.00	0.00
2	0.02	0.01	0.00	0.00	0.00	0.00	0.37	0.00	0.58	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.41	0.00	0.00	0.00	0.47	0.00	0.00	0.00
4	0.00	1.12	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.42	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.11	0.01	0.00	0.00	0.00
6	0.00	0.00	0.12	0.03	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
7	0.00	0.00	0.07	0.00	0.00	0.00	0.23	0.00	0.28	0.99	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.31	0.20	0.00	0.09	0.00	0.01	0.00
9	0.00	0.00	0.47	0.00	0.05	0.00	0.00	0.00	0.33	0.00	0.47	0.00
10	0.00	0.00	1.32	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.04	0.08	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.47	0.00	0.00	0.00	0.00	0.03	0.16	0.00	0.00	0.00	0.00
13	0.09	0.00	0.00	0.14	0.12	0.05	0.11	0.01	0.00	0.31	0.01	0.00
14	0.00	0.00	0.00	0.84	0.14	0.01	0.00	0.00	0.00	0.27	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.02	0.03
17	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
19	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.03	0.00	0.00
20	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.14	0.00	0.00	0.39	0.03
21	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.01	0.01	0.00	0.00	0.00	0.14	0.14	0.07	0.00	0.01	0.00	0.00
23	0.00	0.60	0.43	0.01	0.00	0.41	0.01	0.01	0.00	0.00	0.01	0.00
24	0.12	0.58	0.00	0.00	0.18	0.00	0.00	0.12	0.00	0.00	0.00	0.00
25	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01
27	0.05	0.41	0.00	0.00	0.11	0.08	0.00	0.00	0.55	0.03	0.00	0.00
28	0.00	0.00	0.00	0.00	0.31	1.22	0.00	0.00	0.13	0.90	0.00	0.00
29	0.04	0.00	0.00	0.00	---	0.00	0.27	0.00	0.00	0.63	0.00	0.00
30	0.00	0.00	0.00	0.36	---	0.00	0.01	0.00	0.00	0.07	0.09	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.03	0.00	---
TOTAL	0.41	4.46	2.65	1.49	1.47	2.64	1.38	1.55	2.54	3.69	1.06	0.09



0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC

LOCATION.--Lat 36°08'16", long 79°51'36", Guilford County, Hydrologic Unit 03030002, on right bank, 300 ft downstream from U.S. Highway 220 bridge on gravel road to city lift station, 2.9 mi upstrem from Lake Brandt dam and 6.3 mi northwest of Greensboro.

DRAINAGE AREA.--15.9 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 740 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.6	17	5.9	10	39	16	32	5.6	6.0	8.6	1.8
2	9.7	4.6	9.7	5.9	9.4	15	36	11	33	5.3	5.8	1.6
3	8.0	4.9	8.0	5.8	69	12	18	9.0	50	5.0	4.4	1.5
4	6.3	73	7.6	5.9	34	10	14	8.0	15	16	3.6	1.4
5	6.0	15	6.8	5.8	16	9.4	13	7.6	10	10	3.1	1.4
6	6.4	7.9	6.8	6.0	12	8.4	12	19	8.0	6.1	2.8	1.4
7	5.1	6.4	12	5.9	11	7.8	e11	9.8	7.9	21	2.6	1.4
8	4.8	5.6	7.1	5.6	9.9	31	e31	8.5	51	20	2.7	1.5
9	4.7	5.1	36	5.4	9.1	11	e13	7.9	38	7.9	18	1.5
10	4.7	4.8	421	6.0	21	9.0	e10	7.4	22	6.1	4.9	1.5
11	4.5	4.8	84	5.4	9.8	8.3	e12	7.0	10	5.4	3.4	1.4
12	4.5	163	28	5.4	9.5	7.8	13	6.9	7.8	5.4	2.7	1.4
13	7.0	69	15	5.5	8.4	7.4	17	8.0	7.1	40	4.8	1.5
14	5.1	18	11	123	16	10	21	6.9	6.4	44	4.4	1.7
15	4.7	11	9.7	25	12	7.2	12	7.6	5.7	16	3.0	1.7
16	4.2	9.6	8.7	14	9.5	33	11	7.1	5.2	7.7	6.4	2.2
17	4.1	8.3	8.0	11	8.4	63	11	6.3	5.1	5.2	5.7	2.7
18	4.1	7.7	7.5	9.6	7.7	21	10	6.3	5.0	4.2	2.9	1.9
19	6.8	7.3	7.3	9.0	7.3	12	9.5	7.3	4.7	3.5	3.2	1.7
20	6.9	7.2	6.6	9.0	7.3	10	9.4	9.7	4.7	8.0	22	1.7
21	4.8	6.9	6.4	10	8.5	8.9	8.7	11	5.1	3.4	9.4	2.7
22	4.6	6.6	6.5	9.3	7.9	8.9	8.5	6.9	6.5	2.9	4.5	1.8
23	4.5	55	34	8.7	7.2	46	10	8.4	5.7	2.8	4.7	1.6
24	6.2	51	11	7.7	31	24	8.7	8.4	5.8	2.3	3.2	1.4
25	5.2	65	8.1	8.6	13	12	8.1	7.8	5.8	2.1	2.7	1.5
26	4.7	16	7.0	8.5	9.6	10	7.9	6.5	5.8	1.9	2.4	1.9
27	4.7	15	6.4	7.9	8.7	9.3	8.0	6.0	31	1.8	2.2	1.9
28	5.6	61	6.1	7.3	121	244	7.6	6.0	24	7.5	2.2	1.6
29	5.3	14	6.1	7.8	---	56	12	5.8	9.9	84	2.0	1.4
30	5.3	10	6.1	35	---	23	9.1	5.7	7.5	42	1.9	1.3
31	4.8	---	6.0	16	---	18	---	5.5	---	19	2.5	---
TOTAL	174.3	738.3	821.5	401.9	504.2	792.4	388.5	271.3	409.3	412.5	152.7	50.0
MEAN	5.62	24.6	26.5	13.0	18.0	25.6	12.9	8.75	13.6	13.3	4.93	1.67
MAX	11	163	421	123	121	244	36	32	51	84	22	2.7
MIN	4.1	4.6	6.0	5.4	7.2	7.2	7.6	5.5	4.7	1.8	1.9	1.3
CFSM	0.35	1.55	1.67	0.82	1.13	1.61	0.81	0.55	0.86	0.84	0.31	0.10
IN.	0.41	1.73	1.92	0.94	1.18	1.85	0.91	0.63	0.96	0.97	0.36	0.12

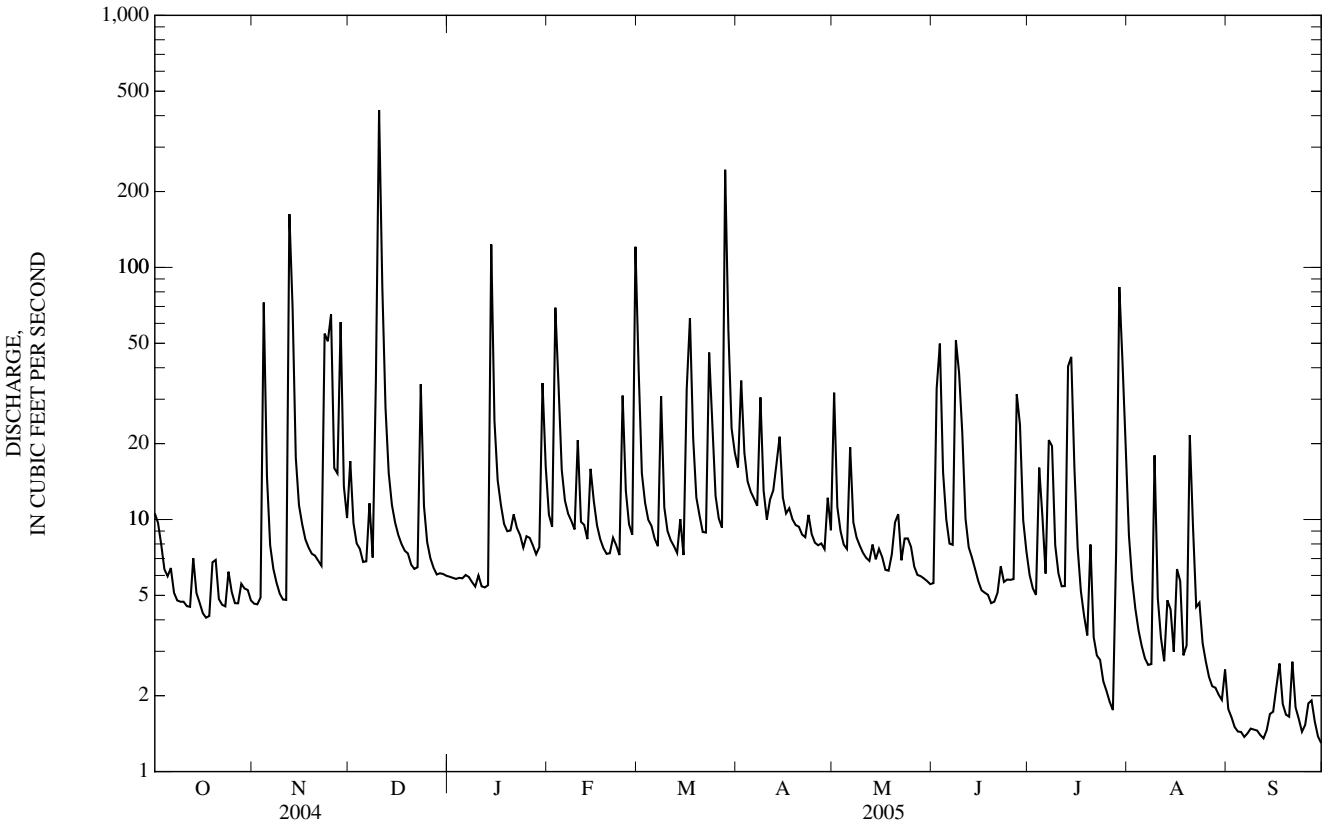
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	12.8	17.4	21.4	16.7	25.9	32.8	27.3	15.2	13.6	17.1	15.4	33.0
MAX	31.8	43.6	45.7	21.9	45.0	74.3	70.2	46.6	35.3	35.4	58.2	79.5
(WY)	(2003)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	5.62	5.08	8.86	9.75	9.21	13.2	5.46	3.32	4.68	4.11	4.93	1.67
(WY)	(2005)	(2002)	(2001)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)	(2005)

0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	7,008.6		5,116.9			
ANNUAL MEAN	19.1		14.0		20.9	
HIGHEST ANNUAL MEAN					46.5	2003
LOWEST ANNUAL MEAN					8.37	2002
HIGHEST DAILY MEAN	564	Sep 8	421	Dec 10	827	Mar 20, 2003
LOWEST DAILY MEAN	2.5	Sep 4	1.3	Sep 30	0.14	Aug 25, 2002
ANNUAL SEVEN-DAY MINIMUM	3.0	Aug 23	1.4	Sep 3	0.38	Aug 8, 2002
MAXIMUM PEAK FLOW			971	Dec 10	2,300	Sep 23, 2003
MAXIMUM PEAK STAGE			8.81	Dec 10	10.66	Sep 23, 2003
INSTANTANEOUS LOW FLOW			1.2	Sep 30	0.06	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.20		0.882		1.32	
ANNUAL RUNOFF (INCHES)	16.40		11.97		17.89	
10 PERCENT EXCEEDS	27		29		40	
50 PERCENT EXCEEDS	8.8		7.6		8.7	
90 PERCENT EXCEEDS	4.6		2.4		2.8	

e Estimated.



0209399200 HORSE PEN CREEK AT US HIGHWAY 220 NEAR GREENSBORO, NC—Continued

PRECIPITATION RECORDS

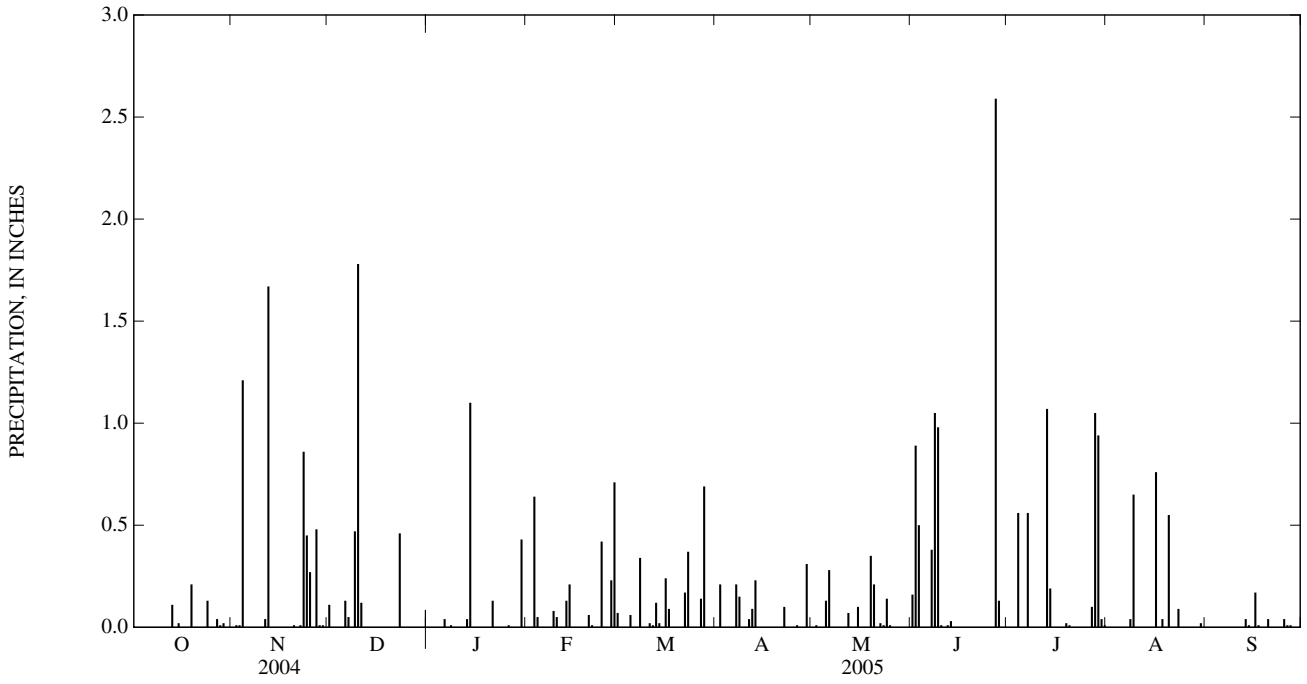
PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.11	0.00	0.00	0.07	0.00	0.00	0.16	0.00	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.21	0.01	0.89	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.64	0.00	0.00	0.00	0.50	0.00	0.00	0.00
4	0.00	1.21	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.56	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.13	0.00	0.00	0.00	0.00
6	0.00	0.00	0.13	0.04	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
7	0.00	0.00	0.05	0.00	0.00	0.00	0.21	0.00	0.38	0.56	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.34	0.15	0.00	1.05	0.00	0.04	0.00
9	0.00	0.00	0.47	0.00	0.08	0.00	0.00	0.00	0.98	0.00	0.65	0.00
10	0.00	0.00	1.78	0.00	0.05	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.04	0.12	0.00	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00
12	0.00	1.67	0.00	0.00	0.00	0.01	0.09	0.07	0.01	0.00	0.00	0.00
13	0.11	0.00	0.00	0.04	0.13	0.12	0.23	0.00	0.03	1.07	0.00	0.04
14	0.00	0.00	0.00	1.10	0.21	0.02	0.00	0.00	0.00	0.19	0.00	0.01
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.76	0.17
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
19	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.02	0.00	0.00
20	0.00	0.01	0.00	0.00	0.06	0.00	0.00	0.21	0.00	0.01	0.55	0.04
21	0.00	0.00	0.00	0.13	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.00	0.00	0.17	0.10	0.02	0.00	0.00	0.00	0.00
23	0.00	0.86	0.46	0.00	0.00	0.37	0.00	0.01	0.00	0.00	0.09	0.00
24	0.13	0.45	0.00	0.00	0.42	0.00	0.00	0.14	0.00	0.00	0.00	0.00
25	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.04
26	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01
27	0.04	0.48	0.00	0.00	0.23	0.14	0.00	0.00	2.59	0.10	0.00	0.01
28	0.01	0.01	0.00	0.00	0.71	0.69	0.00	0.00	0.13	1.05	0.00	0.00
29	0.02	0.01	0.00	0.00	---	0.00	0.31	0.00	0.00	0.94	0.00	0.00
30	0.00	0.00	0.00	0.43	---	0.00	0.00	0.00	0.00	0.04	0.02	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.01	0.00	---
TOTAL	0.54	5.04	3.12	1.76	2.59	2.34	1.35	1.33	6.73	4.55	2.15	0.33



02094500 REEDY FORK NEAR GIBSONVILLE, NC

LOCATION.--Lat 36°10'23", long 79°36'51", Guilford County, Hydrologic Unit 03030002, on right bank 0.2 mi downstream from Huffines Mill on Secondary Road 2719, 1.2 mi upstream from Buffalo Creek, and 6 mi northwest of Gibsonville.

DRAINAGE AREA.--131 mi^2.

PERIOD OF RECORD.--September 1928 to current year.

REVISED RECORDS.--WSP 1303: 1929-40 (monthly and yearly runoff). WSP 1383: 1929-30, 1933(M), 1934, 1937(M), 1939-42(M), 1948. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and rock-masonry contro1. Datum of gage is 626.88 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Flow regulated since 1923 by Lake Brandt (station 02094117), 14 mi upstream; since 1957 by Lake Higgins (station 02093981) on Brush Creek, a tributary to Lake Brandt; since 1943 by Richland Lake 12 mi. upstream from station; and since 1968 by Lake Townsend (station 02094305), 9 mi upstream from station. City of Greensboro diverted a daily average of 18.3 ft^3/s from Lake Brandt and a daily average of 28.6 ft^3/s from Lake Townsend for municipal water supply. Prior to regulation, maximum discharge: 11,600 ft^3/s, Sept. 25, 1947; gage height: 20.77 ft; minimum discharge not determined. Mimimum discharge for current water year also occurred Sept. 16, 17.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 17.90 ft, from information by local resident; discharge, 8,640 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	20	132	18	135	550	289	67	14	8.8	11	8.3
2	36	20	88	19	122	138	163	62	22	7.8	9.7	8.5
3	30	21	29	20	74	85	112	43	41	8.3	9.0	8.1
4	24	50	23	24	116	58	59	32	48	8.4	8.5	7.5
5	19	29	19	199	330	102	38	23	49	21	8.0	6.7
6	16	15	18	25	72	73	30	24	48	16	7.8	6.6
7	15	12	92	18	28	53	44	22	43	20	7.9	6.8
8	13	11	392	17	63	87	335	21	105	45	8.0	6.7
9	13	9.9	74	15	54	128	56	20	359	17	29	7.2
10	13	9.7	1,670	14	48	64	42	19	189	11	25	6.5
11	13	9.4	2,070	15	46	36	36	17	84	9.2	14	5.8
12	13	277	204	22	71	36	193	16	69	9.2	9.9	5.2
13	16	581	45	27	55	30	118	16	47	57	8.0	4.7
14	19	51	37	731	46	21	77	15	34	124	7.2	e4.8
15	15	115	26	613	48	90	32	18	23	73	7.0	4.8
16	14	82	26	48	75	86	23	23	19	24	7.4	4.7
17	16	58	62	36	58	187	21	17	14	16	16	5.5
18	16	46	48	39	43	188	22	15	e13	12	13	5.2
19	16	36	40	43	34	125	21	38	e11	11	10	5.3
20	18	29	38	40	22	132	20	57	e11	9.3	14	6.0
21	17	27	35	30	42	59	20	58	e10	8.9	14	8.2
22	17	22	33	86	44	44	19	37	e9.9	8.6	10	8.1
23	17	97	86	70	30	168	21	33	e9.6	8.7	11	9.0
24	17	764	229	42	35	216	33	30	e8.9	8.1	13	9.0
25	20	153	35	32	80	178	31	25	e8.5	7.8	9.7	8.9
26	19	231	26	23	59	122	23	20	e8.4	7.5	7.7	10
27	18	72	21	44	42	164	18	18	e9.0	9.1	7.4	11
28	17	174	19	36	171	668	17	17	10	9.8	7.5	8.8
29	19	197	20	26	---	1,280	19	17	10	27	7.7	6.6
30	20	125	21	40	---	117	22	15	9.4	24	8.2	8.9
31	20	---	18	56	---	70	---	14	---	15	7.6	---
TOTAL	582	3,344.0	5,676	2,468	2,043	5,355	1,954	849	1,336.7	642.5	334.2	213.4
MEAN	18.8	111	183	79.6	73.0	173	65.1	27.4	44.6	20.7	10.8	7.11
MAX	46	764	2,070	731	330	1,280	335	67	359	124	29	11
MIN	13	9.4	18	14	22	21	17	14	8.4	7.5	7.0	4.7

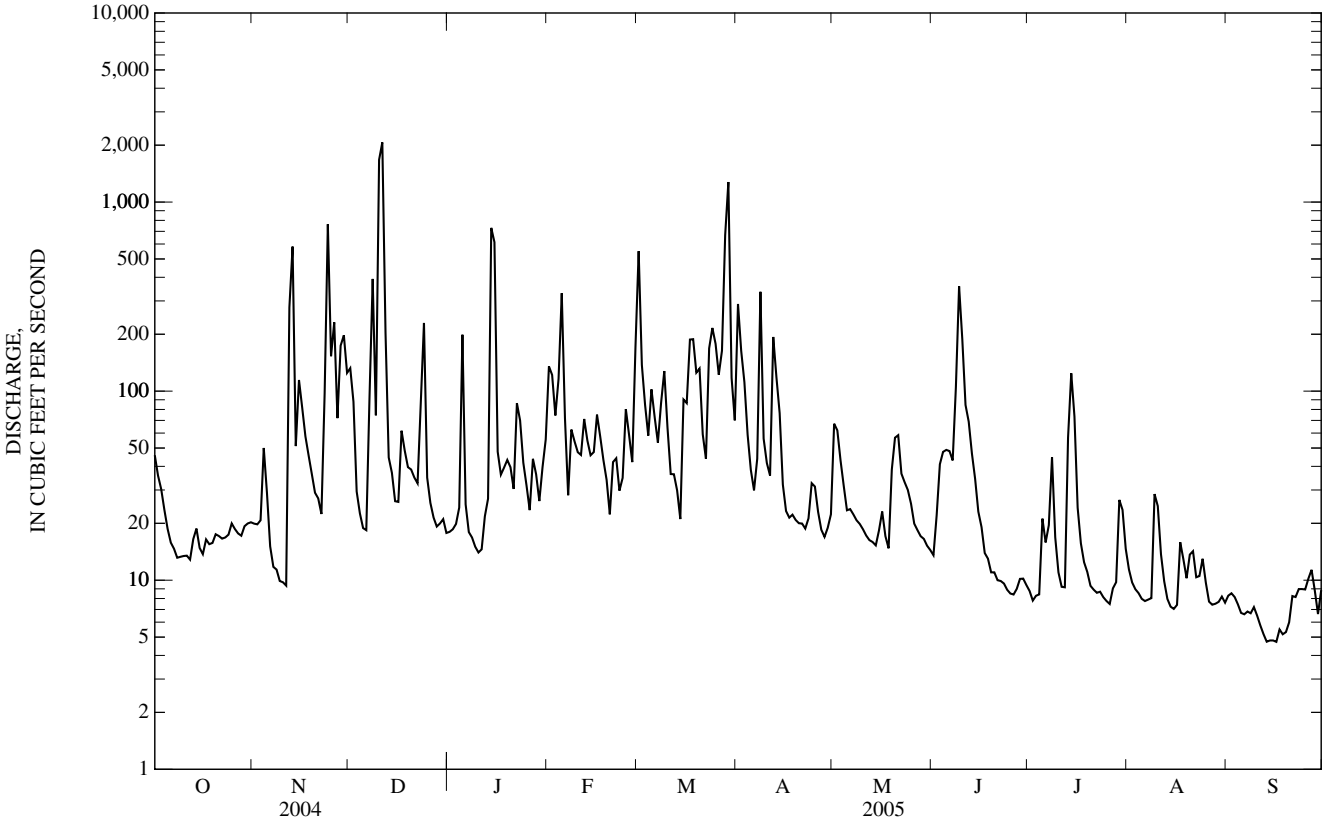
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2005, BY WATER YEAR (WY)

MEAN	50.6	47.5	90.9	163	151	173	144	91.7	64.2	59.0	44.3	81.2
MAX	432	165	221	644	456	613	613	365	477	596	255	518
(WY)	(1991)	(1993)	(1973)	(1978)	(1979)	(1993)	(1987)	(1978)	(1982)	(1984)	(2003)	(1996)
MIN	2.85	6.70	5.97	11.1	18.7	16.4	9.65	5.38	4.23	2.83	1.92	3.31
(WY)	(1969)	(1970)	(1969)	(1981)	(2002)	(1976)	(2002)	(2002)	(2002)	(1986)	(2002)	(1983)

02094500 REEDY FORK NEAR GIBSONVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1969 - 2005	
ANNUAL TOTAL	28,801.3		24,797.8			
ANNUAL MEAN	78.7		67.9		96.4	
HIGHEST ANNUAL MEAN					239	2003
LOWEST ANNUAL MEAN					15.6	2002
HIGHEST DAILY MEAN	2,070	Dec 11	2,070	Dec 11	5,230	Sep 6, 1996
LOWEST DAILY MEAN	7.5	Sep 5	4.7	Sep 13	0.27	Aug 17, 2002
ANNUAL SEVEN-DAY MINIMUM	8.5	Aug 20	5.0	Sep 12	0.61	Aug 11, 2002
MAXIMUM PEAK FLOW			2,480	Dec 11	6,330	Sep 6, 1996
MAXIMUM PEAK STAGE			8.46	Dec 11	15.65	Sep 6, 1996
INSTANTANEOUS LOW FLOW			4.4*	Sep 14	0.22	Aug 17, 2002
10 PERCENT EXCEEDS	127		130		254	
50 PERCENT EXCEEDS	29		22		22	
90 PERCENT EXCEEDS	11		8.1		5.8	

* Regulated period only (1969-2005). See REMARKS.
e Estimated.



02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'58", long 79°51'19", Guilford County, Hydrologic Unit 03030002, on right bank 300 ft upstream of culvert under Merritt Road, 0.7 mi south of post office at Pomona, and 1.0 mi downstream of South Railway trestle.

DRAINAGE AREA.--7.33 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

REVISED RECORDS.--WDR NC-03-1B: 1999-02(M). WDR NC-04-1: 2003(P).

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 500 ft^3/s on basis of culvert computation of peak flow. Minimum discharge for period of record occurred several days in 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	e1.4	12	e2.7	4.3	9.6	3.7	38	2.2	1.4	3.6	0.64
2	6.2	e1.7	3.0	e2.7	4.0	4.8	17	3.3	49	1.2	2.0	0.60
3	3.6	e1.5	2.4	e2.7	55	3.7	4.3	2.4	15	4.1	1.7	0.51
4	2.4	35	2.2	e2.7	8.8	3.3	3.4	2.2	3.2	21	1.5	0.53
5	2.2	2.8	2.3	e2.8	5.2	3.1	3.2	2.2	1.9	3.9	1.4	0.49
6	1.8	1.7	2.1	e2.7	3.6	2.8	3.1	18	1.7	1.8	1.3	0.42
7	1.8	1.5	7.5	e2.6	3.5	2.7	20	2.9	10	37	1.2	0.41
8	1.7	1.5	2.6	e2.7	3.2	34	43	2.2	23	5.7	8.3	0.52
9	1.8	1.5	24	e2.4	2.9	4.6	11	2.1	4.8	2.2	37	0.59
10	1.8	1.5	373	e2.4	8.5	3.5	4.3	2.0	2.9	1.4	2.5	0.88
11	1.7	1.5	33	e2.5	3.0	5.0	3.7	2.0	2.2	1.4	1.6	0.75
12	1.8	137	e7.1	e2.5	2.6	3.7	3.8	3.0	1.8	1.2	1.3	0.46
13	13	11	e5.2	e3.1	2.9	2.8	15	3.8	7.1	75	1.1	0.70
14	2.3	3.5	e3.9	148	13	5.7	9.2	2.0	3.5	19	1.5	0.96
15	1.7	2.7	e3.5	8.9	4.6	2.8	3.8	3.8	1.4	3.7	1.0	0.88
16	1.6	1.9	e3.3	5.8	3.5	37	3.3	2.0	1.1	2.8	1.1	2.4
17	1.6	1.9	e3.7	4.6	3.5	48	2.8	1.8	1.1	2.2	3.8	1.9
18	1.6	1.8	e3.3	3.8	3.2	8.8	2.8	1.8	1.1	1.5	3.0	0.61
19	4.1	1.7	e3.1	3.8	2.7	4.9	2.8	6.2	0.99	1.7	1.8	0.47
20	2.1	1.8	e2.8	3.9	3.1	4.0	2.6	8.1	0.96	7.6	25	5.4
21	1.5	1.7	e2.8	5.0	4.9	3.5	2.6	4.2	0.91	2.5	3.6	5.2
22	1.6	1.8	e3.0	3.7	2.6	7.8	3.4	2.0	1.0	2.1	1.0	0.86
23	1.7	64	39	3.4	2.4	33	3.7	6.6	0.99	1.8	14	0.26
24	4.0	24	7.1	3.0	33	9.5	2.5	4.0	0.96	1.4	1.5	0.35
25	1.7	25	e3.6	3.1	5.9	5.0	2.5	2.5	0.99	1.4	1.1	0.35
26	1.6	3.9	e3.2	2.9	3.6	4.2	2.8	1.4	0.96	1.3	0.89	1.0
27	1.6	27	e3.0	2.9	3.4	4.6	3.0	1.3	17	1.4	0.71	0.59
28	2.4	22	e2.8	3.2	106	221	2.8	1.3	42	23	0.78	0.64
29	2.5	3.9	e2.8	5.2	---	13	9.3	1.3	2.6	71	0.84	0.60
30	e1.7	3.0	e2.8	31	---	5.4	3.4	1.2	1.5	69	0.82	0.76
31	e1.4	---	e2.8	6.3	---	4.3	---	1.2	---	7.9	0.72	---
TOTAL	81.0	391.2	572.9	283.0	302.9	506.1	198.8	136.8	203.86	378.6	127.66	30.73
MEAN	2.61	13.0	18.5	9.13	10.8	16.3	6.63	4.41	6.80	12.2	4.12	1.02
MAX	13	137	373	148	106	221	43	38	49	75	37	5.4
MIN	1.4	1.4	2.1	2.4	2.4	2.7	2.5	1.2	0.91	1.2	0.71	0.26
CFSM	0.36	1.78	2.52	1.25	1.48	2.23	0.90	0.60	0.93	1.67	0.56	0.14
IN.	0.41	1.99	2.91	1.44	1.54	2.57	1.01	0.69	1.03	1.92	0.65	0.16

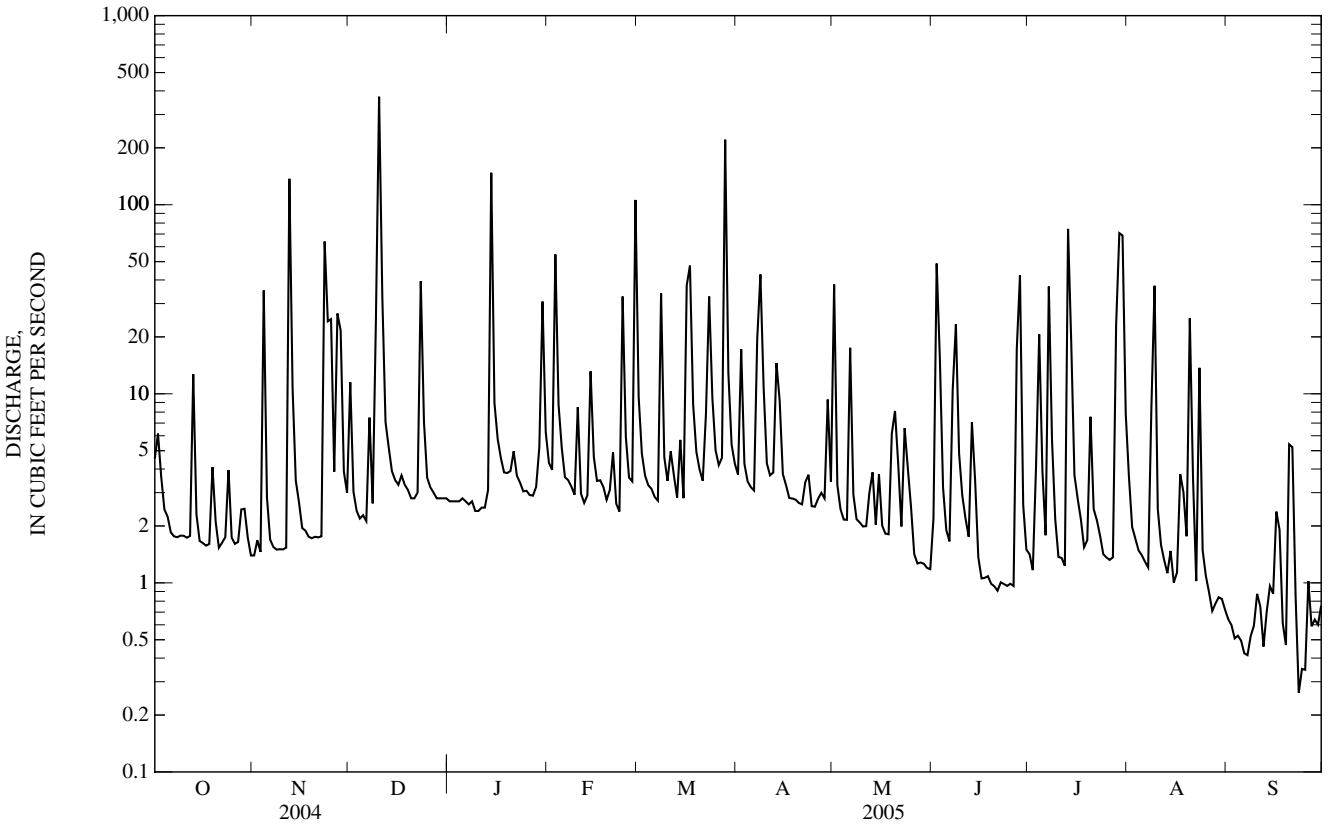
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	9.04	7.99	11.5	9.75	11.6	16.9	14.9	10.1	9.66	12.6	9.17	27.6
MAX	28.3	20.0	24.2	17.5	21.4	41.0	46.8	32.8	26.9	28.8	19.1	53.5
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2004)
MIN	1.90	1.09	2.56	3.13	4.18	5.25	2.12	3.69	2.34	5.27	3.52	1.02
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2004)	(2005)

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	4,893.51		3,213.55			
ANNUAL MEAN	13.4		8.80		12.8	
HIGHEST ANNUAL MEAN					27.6	2003
LOWEST ANNUAL MEAN					6.22	2002
HIGHEST DAILY MEAN	740	Sep 8	373	Dec 10	740	Sep 8, 2004
LOWEST DAILY MEAN	0.65	Sep 5	0.26	Sep 23	0.11	Jun 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.73	Aug 23	0.50	Sep 3	0.13	Aug 7, 2002
MAXIMUM PEAK FLOW			2,280	Dec 10	3,350*	Sep 23, 2003
MAXIMUM PEAK STAGE			10.92	Dec 10	15.45	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.17	Sep 23	0.10*	Jun 22, 2002
ANNUAL RUNOFF (CFSM)	1.82		1.20		1.74	
ANNUAL RUNOFF (INCHES)	24.83		16.31		23.64	
10 PERCENT EXCEEDS	14		18		25	
50 PERCENT EXCEEDS	2.8		2.8		2.7	
90 PERCENT EXCEEDS	1.4		0.99		0.76	

* See REMARKS.
e Estimated.



02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC—Continued

PRECIPITATION RECORDS

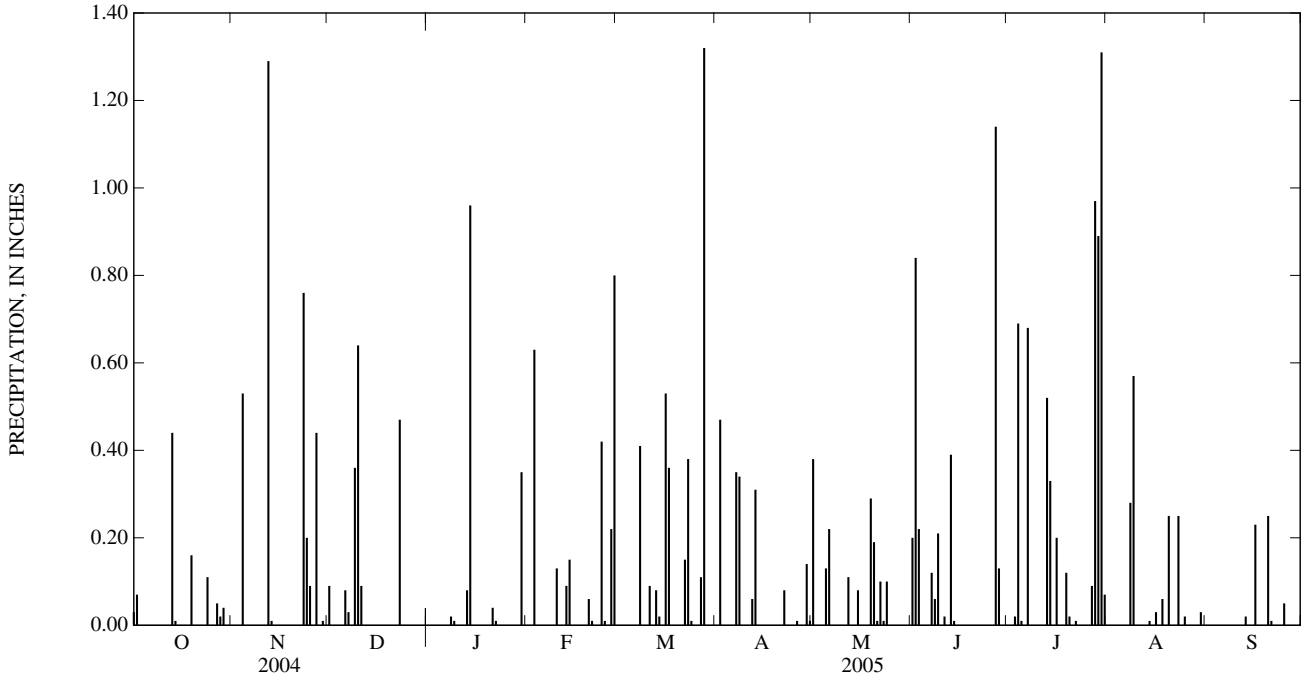
PERIOD OF RECORD.--January 2000 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Records poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.09	0.00	0.00	0.00	0.00	0.38	0.20	0.00	0.00	0.00
2	0.07	0.00	0.00	0.00	0.00	0.00	0.47	0.00	0.84	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.22	0.02	0.00	0.00
4	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.00	0.00
6	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
7	0.00	0.00	0.03	0.00	0.00	0.00	0.35	0.00	0.12	0.68	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.41	0.34	0.00	0.06	0.00	0.28	0.00
9	0.00	0.00	0.36	0.01	0.00	0.00	0.00	0.00	0.21	0.00	0.57	0.00
10	0.00	0.00	0.64	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.09	0.00	0.00	0.09	0.00	0.00	0.02	0.00	0.00	0.00
12	0.00	1.29	0.00	0.00	0.00	0.00	0.06	0.11	0.00	0.00	0.00	0.00
13	0.44	0.01	0.00	0.08	0.09	0.08	0.31	0.00	0.39	0.52	0.00	0.02
14	0.01	0.00	0.00	0.96	0.15	0.02	0.00	0.00	0.01	0.33	0.01	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.20	0.03	0.23
17	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00
19	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.12	0.00	0.00
20	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.19	0.00	0.02	0.25	0.25
21	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.01	0.00	0.15	0.08	0.10	0.00	0.01	0.00	0.00
23	0.00	0.76	0.47	0.00	0.00	0.38	0.00	0.01	0.00	0.00	0.25	0.00
24	0.11	0.20	0.00	0.00	0.42	0.01	0.00	0.10	0.00	0.00	0.00	0.00
25	0.00	0.09	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.05
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
27	0.05	0.44	0.00	0.00	0.22	0.11	0.00	0.00	1.14	0.09	0.00	0.00
28	0.02	0.00	0.00	0.00	0.80	1.32	0.00	0.00	0.13	0.97	0.00	0.00
29	0.04	0.01	0.00	0.00	---	0.00	0.14	0.00	0.00	0.89	0.00	0.00
30	0.00	0.00	0.00	0.35	---	0.00	0.01	0.00	0.00	1.31	0.03	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.07	0.00	---
TOTAL	0.93	3.33	1.76	1.47	2.52	3.46	1.77	1.62	3.34	5.93	1.50	0.56



02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC

LOCATION.--Lat 36°02'17", long 79°47'59", Guilford County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on US 220, and 0.8 mi upstream from Ryan Creek in Greensboro.

DRAINAGE AREA.--15.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

REVISED RECORDS.--WDR-NC-04-1: 2003(M)

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

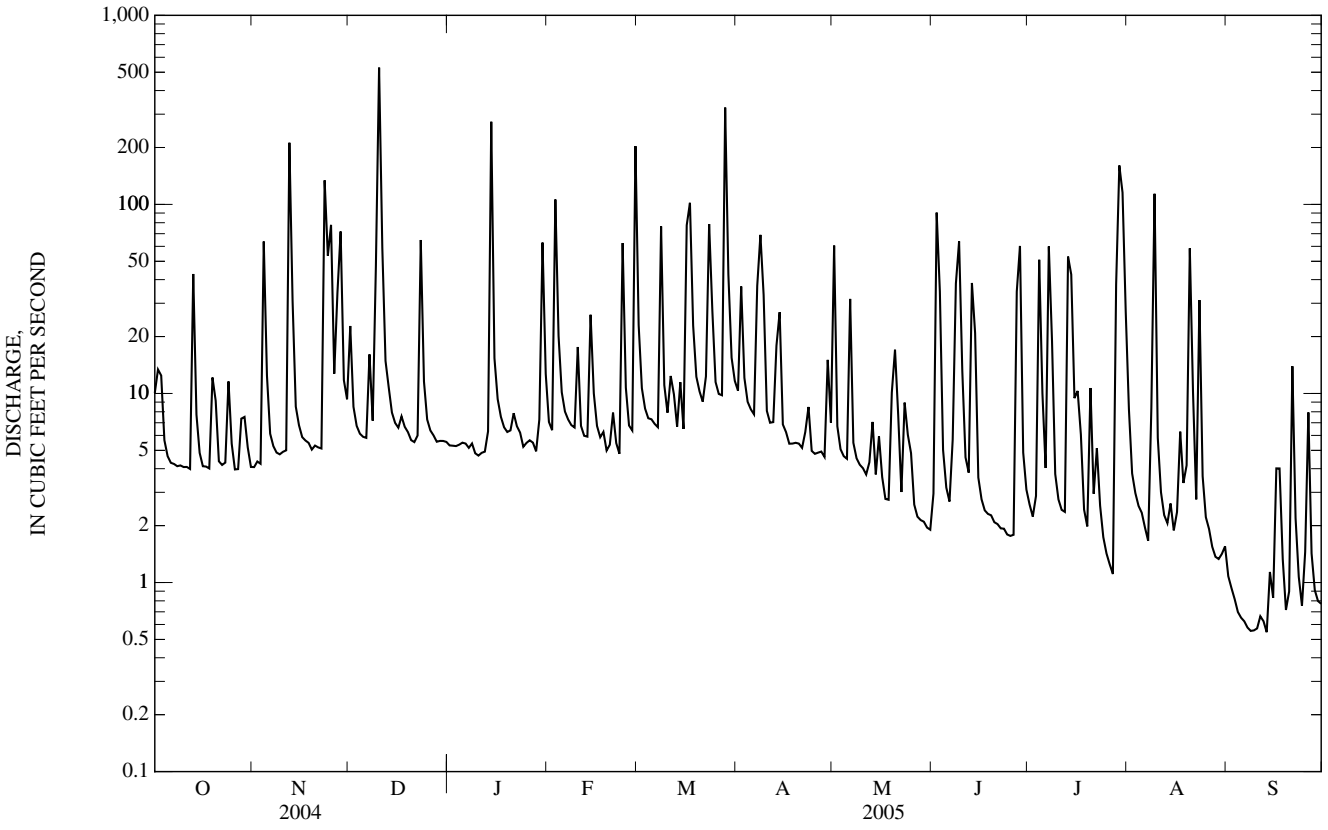
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	4.1	23	5.3	7.1	23	10	61	3.0	2.6	8.2	1.1
2	13	4.4	8.5	5.3	6.4	11	37	6.7	90	2.2	3.8	0.94
3	12	4.2	6.7	5.3	106	8.3	12	5.1	35	2.9	3.0	0.82
4	5.7	64	6.1	5.4	20	7.4	9.0	4.7	5.0	51	2.5	0.70
5	4.7	12	5.9	5.5	10	7.3	8.2	4.5	3.2	10	2.3	0.65
6	4.3	6.1	5.8	5.4	8.0	6.9	7.8	32	2.7	4.0	2.0	0.62
7	4.2	5.3	16	5.2	7.3	6.6	37	5.5	5.7	60	1.7	0.58
8	4.1	4.9	7.2	5.4	6.8	76	69	4.5	38	19	8.4	0.55
9	4.2	4.8	47	4.8	6.6	11	33	4.2	64	3.8	114	0.56
10	4.1	4.9	529	4.7	18	7.9	8.1	4.0	13	2.8	5.8	0.57
11	4.1	5.0	59	4.9	6.7	12	7.0	3.7	4.6	2.4	3.0	0.66
12	4.0	212	15	4.9	6.0	9.9	7.1	4.3	3.8	2.4	2.3	0.62
13	43	31	11	6.3	5.9	6.7	18	7.1	38	53	2.1	0.55
14	7.7	8.5	7.9	274	26	11	27	3.7	21	43	2.6	1.1
15	4.9	6.8	7.0	15	10	6.5	6.9	5.9	3.6	9.4	1.9	0.83
16	4.1	5.9	6.6	9.3	6.7	78	6.2	3.6	2.8	10	2.4	4.0
17	4.1	5.6	7.6	7.5	5.9	102	5.4	2.8	2.4	6.1	6.3	4.0
18	4.0	5.5	6.7	6.6	6.3	23	5.4	2.7	2.3	2.4	3.4	1.3
19	12	5.0	6.2	6.3	5.0	12	5.5	10	2.3	2.0	4.2	0.72
20	9.2	5.3	5.7	6.4	5.4	10	5.4	17	2.1	11	59	0.90
21	4.4	5.2	5.5	7.9	7.9	9.1	5.2	7.7	2.0	2.9	10	14
22	4.2	5.1	6.0	6.7	5.5	12	6.3	3.0	1.9	5.1	2.8	2.2
23	4.3	134	65	6.2	4.8	79	8.5	8.9	1.9	2.6	31	1.1
24	12	54	12	5.2	62	27	5.0	6.0	1.8	1.7	3.7	0.75
25	5.4	78	7.3	5.5	11	11	4.8	4.8	1.8	1.4	2.2	1.5
26	4.0	13	6.4	5.7	6.8	9.9	4.9	2.6	1.8	1.2	1.9	7.9
27	4.0	34	6.0	5.5	6.4	9.8	4.9	2.2	35	1.1	1.5	1.4
28	7.4	72	5.6	4.9	203	325	4.6	2.1	60	38	1.4	0.91
29	7.5	12	5.6	7.3	---	43	15	2.1	4.9	161	1.3	0.80
30	5.2	9.3	5.6	63	---	15	7.0	2.0	3.1	116	1.4	0.77
31	4.1	---	5.5	13	---	12	---	1.9	---	27	1.6	---
TOTAL	225.9	821.9	918.4	524.4	587.5	989.3	391.2	236.3	456.7	658.0	297.7	53.10
MEAN	7.29	27.4	29.6	16.9	21.0	31.9	13.0	7.62	15.2	21.2	9.60	1.77
MAX	43	212	529	274	203	325	69	61	90	161	114	14
MIN	4.0	4.1	5.5	4.7	4.8	6.5	4.6	1.9	1.8	1.1	1.3	0.55
CFSM	0.47	1.78	1.92	1.10	1.36	2.07	0.85	0.49	0.99	1.38	0.62	0.11
IN.	0.55	1.99	2.22	1.27	1.42	2.39	0.94	0.57	1.10	1.59	0.72	0.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	15.4	14.8	22.3	28.3	20.9	29.7	30.1	16.0	25.0	25.5	20.1	50.4
MAX	60.3	41.5	51.5	82.6	38.1	63.3	77.0	51.7	57.9	41.1	39.2	155
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	3.59	3.00	5.78	8.65	9.10	12.9	4.06	4.87	3.15	10.3	9.14	1.77
(WY)	(1999)	(1999)	(2001)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	8,590.5		6,160.40			
ANNUAL MEAN	23.5		16.9		25.4	
HIGHEST ANNUAL MEAN					50.6	2003
LOWEST ANNUAL MEAN					10.7	2002
HIGHEST DAILY MEAN	913	Sep 8	529	Dec 10	1,640	Sep 2, 2000
LOWEST DAILY MEAN	1.3	Aug 29	0.55	Sep 8	0.10	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	1.6	Aug 23	0.58	Sep 7	0.19	Sep 13, 2001
MAXIMUM PEAK FLOW			1,700	Dec 10	2,770	Sep 23, 2003
MAXIMUM PEAK STAGE			13.55	Dec 10	16.44	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.39	Sep 13	0.08	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.52		1.10		1.65	
ANNUAL RUNOFF (INCHES)	20.75		14.88		22.40	
10 PERCENT EXCEEDS	42		38		48	
50 PERCENT EXCEEDS	6.2		5.8		5.5	
90 PERCENT EXCEEDS	3.6		1.8		1.7	



02094770 SOUTH BUFFALO CREEK AT US 220 AT GREENSBORO, NC—Continued

PRECIPITATION RECORDS

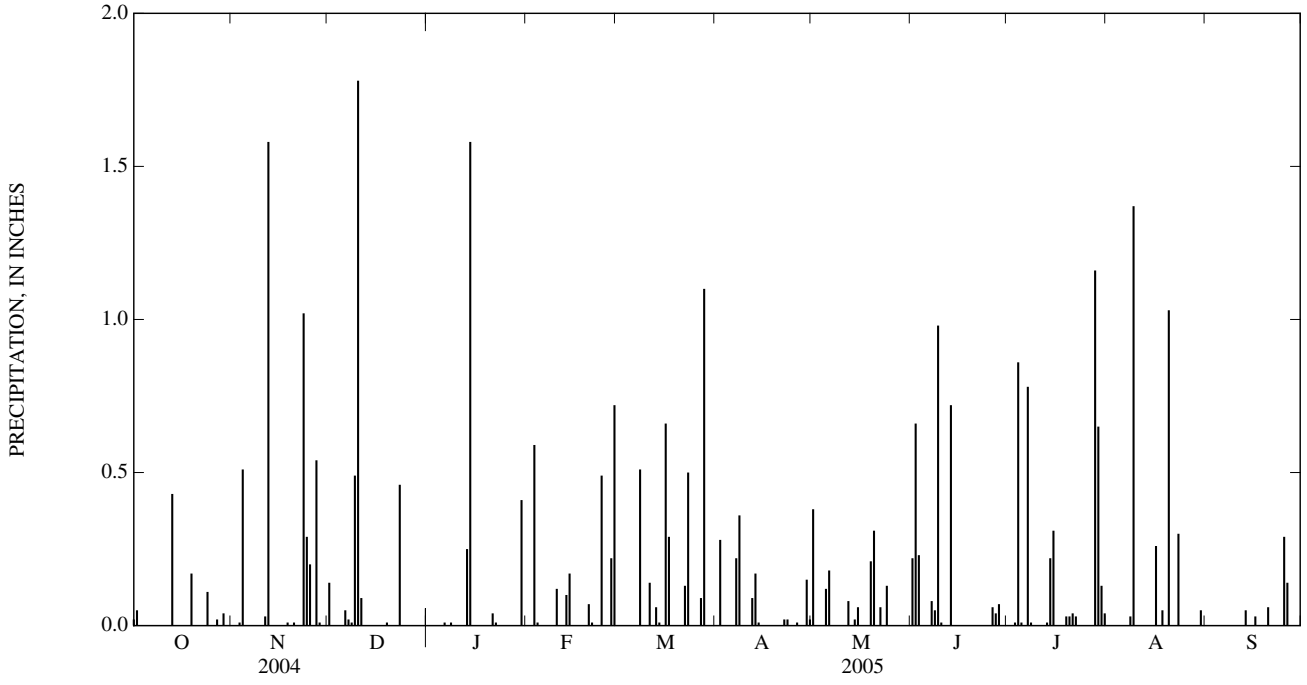
PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to December 1999 are unpublished and available at the USGS Water Science Center, Raleigh, NC.

GAGE.--Tipping bucket raingage. Satellite telemetry at station.

REMARKS.--Records poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.00	0.14	0.00	0.00	0.00	0.00	0.38	0.22	0.00	0.00	0.00
2	0.05	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.66	0.00	0.00	0.00
3	0.00	0.01	0.00	0.00	0.59	0.00	0.00	0.00	0.23	0.01	0.00	0.00
4	0.00	0.51	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.86	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.01	0.00	0.00
6	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.00	0.22	0.00	0.08	0.78	0.00	0.00
8	0.00	0.00	0.01	0.01	0.00	0.51	0.36	0.00	0.05	0.01	0.03	0.00
9	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.98	0.00	1.37	0.00
10	0.00	0.00	1.78	0.00	0.12	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.03	0.09	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.58	0.00	0.00	0.00	0.00	0.09	0.08	0.00	0.00	0.00	0.00
13	0.43	0.00	0.00	0.25	0.10	0.06	0.17	0.00	0.72	0.01	0.00	0.05
14	0.00	0.00	0.00	1.58	0.17	0.01	0.01	0.02	0.00	0.22	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.31	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.26	0.03
17	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
19	0.17	0.00	0.01	0.00	0.00	0.00	0.00	0.21	0.00	0.03	0.00	0.00
20	0.00	0.01	0.00	0.00	0.07	0.00	0.00	0.31	0.00	0.03	1.03	0.06
21	0.00	0.00	0.00	0.04	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00
22	0.00	0.00	0.00	0.01	0.00	0.13	0.02	0.06	0.00	0.03	0.00	0.00
23	0.00	1.02	0.46	0.00	0.00	0.50	0.02	0.00	0.00	0.00	0.30	0.00
24	0.11	0.29	0.00	0.00	0.49	0.00	0.00	0.13	0.00	0.00	0.00	0.00
25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.00	0.14
27	0.02	0.54	0.00	0.00	0.22	0.09	0.00	0.00	0.04	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.72	1.10	0.00	0.00	0.07	1.16	0.00	0.00
29	0.04	0.00	0.00	0.00	---	0.00	0.15	0.00	0.00	0.65	0.00	0.00
30	0.00	0.00	0.00	0.41	---	0.00	0.02	0.00	0.00	0.13	0.05	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.04	0.00	---
TOTAL	0.84	4.21	3.05	2.31	2.50	3.49	1.35	1.55	3.12	4.32	3.09	0.57



02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC

LOCATION.--Lat 36°01'52", long 79°47'46", Guilford County, Hydrologic Unit 03030002, on left bank 0.6 mi upstream from South Buffalo Creek, and .2 mi downstream from US Highway 220 in Greensboro.

DRAINAGE AREA.--4.12 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.
REVISED RECORDS.--WDR NC-02-1B: 1999-2001(M).

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. No flow occurred several days in Aug. 2002. Minimum dicahrge for current water year occurred several days in Sept.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	0.88	4.2	1.5	2.0	5.7	2.5	8.0	1.2	0.77	2.3	0.18
2	3.2	1.0	2.1	1.3	2.0	3.5	9.7	2.4	16	0.78	0.60	0.17
3	2.3	1.5	1.8	1.3	26	3.0	3.0	1.1	7.5	0.73	0.50	0.22
4	1.4	8.5	1.7	1.5	4.5	3.0	2.2	0.93	1.8	9.5	0.46	0.17
5	1.1	1.9	1.6	1.6	2.3	3.5	2.0	0.93	1.1	3.7	0.45	0.17
6	1.0	1.1	1.7	1.5	2.0	2.9	1.9	4.7	0.86	2.2	0.51	0.18
7	1.0	1.1	2.2	1.3	1.8	2.7	4.1	1.2	2.3	24	0.49	0.19
8	1.0	1.2	1.7	1.4	1.7	19	7.9	0.95	11	4.1	0.61	0.20
9	1.0	1.2	13	1.4	1.8	3.6	4.1	0.84	41	1.1	33	0.21
10	1.1	1.0	133	1.4	4.7	3.2	2.0	0.75	6.0	0.81	1.00	0.20
11	0.88	1.1	9.7	1.5	1.6	3.9	1.9	0.75	1.8	0.72	0.60	0.20
12	0.94	58	3.4	1.5	1.5	3.0	2.1	0.84	1.4	0.74	0.49	0.20
13	6.2	5.0	2.6	2.2	1.6	2.8	4.6	1.5	41	0.67	0.45	0.44
14	1.3	1.8	2.2	93	5.7	3.1	4.7	0.87	10	5.0	0.45	0.28
15	0.94	1.6	2.0	4.2	2.5	2.5	1.8	1.4	2.1	1.7	0.51	0.17
16	0.78	1.5	2.0	2.8	1.8	21	1.6	1.0	1.7	0.77	12	0.18
17	0.77	1.5	1.8	2.1	1.6	25	1.5	1.1	1.0	0.68	5.2	0.21
18	0.84	1.5	1.7	1.8	1.4	5.7	1.5	1.2	0.87	0.64	0.67	0.25
19	3.3	1.5	1.8	1.8	1.5	3.6	1.4	1.6	0.87	0.62	0.62	0.18
20	1.4	1.4	1.6	1.8	1.7	3.0	1.4	4.4	0.84	1.5	21	0.24
21	0.87	1.4	1.8	2.0	2.0	2.7	1.3	2.4	0.84	0.82	1.0	0.75
22	0.89	1.4	1.9	2.0	1.5	3.4	1.3	0.91	0.87	0.83	0.24	0.18
23	0.85	34	13	1.8	1.4	23	1.6	1.4	0.75	0.59	2.7	0.17
24	1.8	12	2.6	1.6	16	7.9	1.5	1.3	0.74	0.58	0.28	0.18
25	1.0	17	1.9	1.7	2.6	3.5	1.3	1.3	0.80	0.56	0.22	0.39
26	0.81	2.8	1.7	1.7	1.9	3.0	1.4	0.78	0.82	0.52	0.20	1.6
27	0.83	14	1.5	1.5	1.9	3.1	1.4	0.66	1.0	0.51	0.20	0.21
28	1.1	16	1.6	1.5	50	64	1.1	0.66	2.9	18	0.20	0.17
29	1.5	2.6	1.6	1.9	---	8.2	2.4	0.66	1.3	31	0.18	0.16
30	1.1	2.1	1.5	16	---	3.2	1.4	0.66	0.90	20	0.21	0.16
31	0.99	---	1.4	3.4	---	2.7	---	0.65	---	7.5	0.29	---
TOTAL	44.19	197.58	222.3	162.0	147.0	248.4	76.6	47.84	161.26	141.64	87.63	8.21
MEAN	1.43	6.59	7.17	5.23	5.25	8.01	2.55	1.54	5.38	4.57	2.83	0.27
MAX	6.2	58	133	93	50	64	9.7	8.0	41	31	33	1.6
MIN	0.77	0.88	1.4	1.3	1.4	2.5	1.1	0.65	0.74	0.51	0.18	0.16
CFSM	0.35	1.60	1.74	1.27	1.27	1.94	0.62	0.37	1.30	1.11	0.69	0.07
IN.	0.40	1.78	2.01	1.46	1.33	2.24	0.69	0.43	1.46	1.28	0.79	0.07

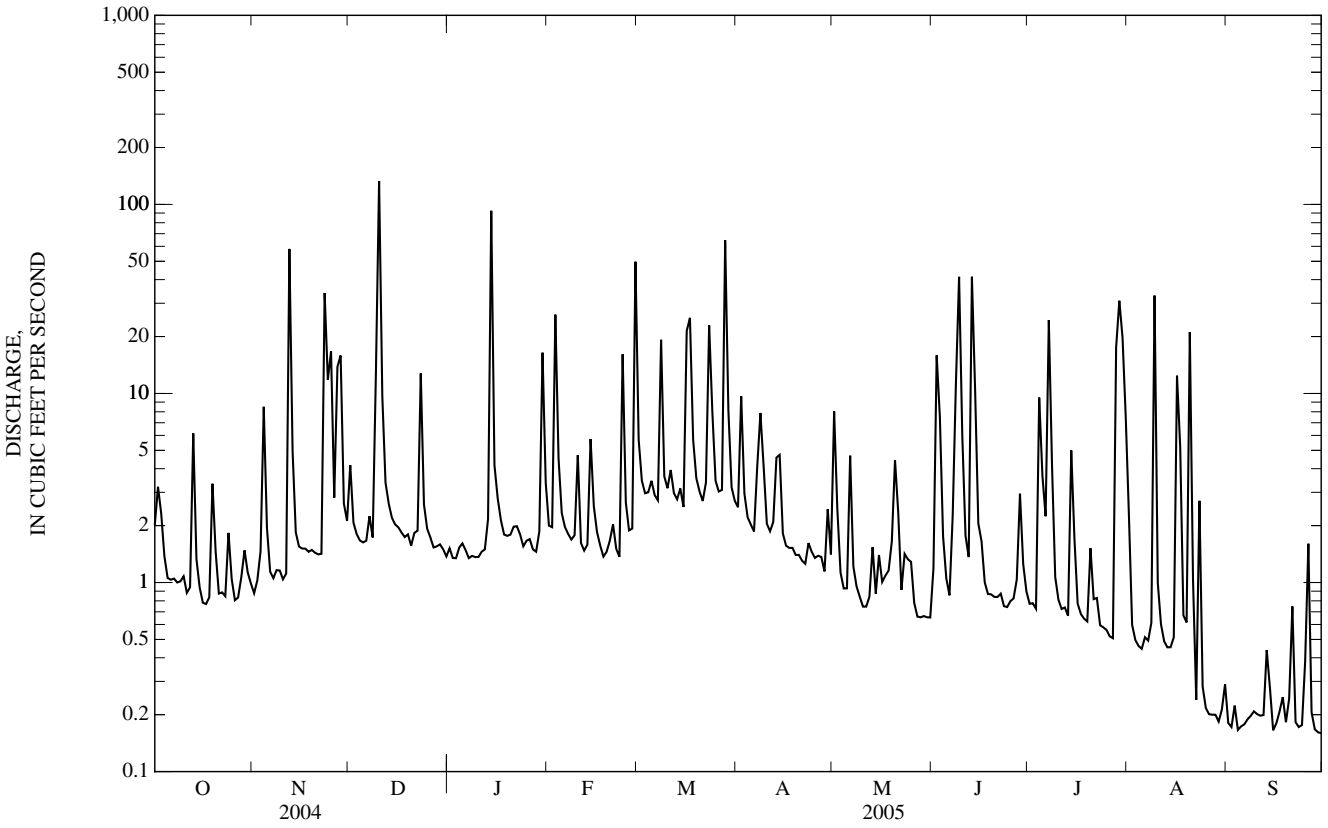
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	3.89	3.59	5.07	6.11	5.15	7.10	5.55	3.07	5.26	5.73	4.01	10.9
MAX	17.9	12.7	13.6	12.9	10.4	17.5	20.4	11.4	17.5	14.1	11.1	29.9
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2000)
MIN	0.31	0.42	1.35	2.48	2.13	2.73	0.76	1.05	0.14	0.89	1.66	0.27
(WY)	(1999)	(1999)	(2001)	(2004)	(1999)	(2004)	(2002)	(1999)	(2002)	(1999)	(1998)	(2005)

02094775 RYAN CREEK BELOW US HIGHWAY 220 AT GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	2,147.77		1,544.65			
ANNUAL MEAN	5.87		4.23		5.59	
HIGHEST ANNUAL MEAN					14.0	2003
LOWEST ANNUAL MEAN					2.98	2002
HIGHEST DAILY MEAN	267	Sep 8	133	Dec 10	393	Sep 15, 2000
LOWEST DAILY MEAN	0.44	Jul 16	0.16	Sep 29	0.00	Aug 6, 2002
ANNUAL SEVEN-DAY MINIMUM	0.50	Aug 23	0.18	Sep 1	0.00	Aug 6, 2002
MAXIMUM PEAK FLOW			547	Dec 10	1,060	Jul 13, 2003
MAXIMUM PEAK STAGE			6.96	Dec 10	12.53	Jul 13, 2003
INSTANTANEOUS LOW FLOW			0.16*	Sep 1	0.00*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	1.42		1.03		1.36	
ANNUAL RUNOFF (INCHES)	19.39		13.95		18.45	
10 PERCENT EXCEEDS	8.1		8.1		9.5	
50 PERCENT EXCEEDS	1.6		1.5		1.2	
90 PERCENT EXCEEDS	0.72		0.42		0.26	

* See REMARKS.



02094775 RYAN CREEK BELOW US 220 AT GREENSBORO, NC—Continued

PRECIPITATION RECORDS

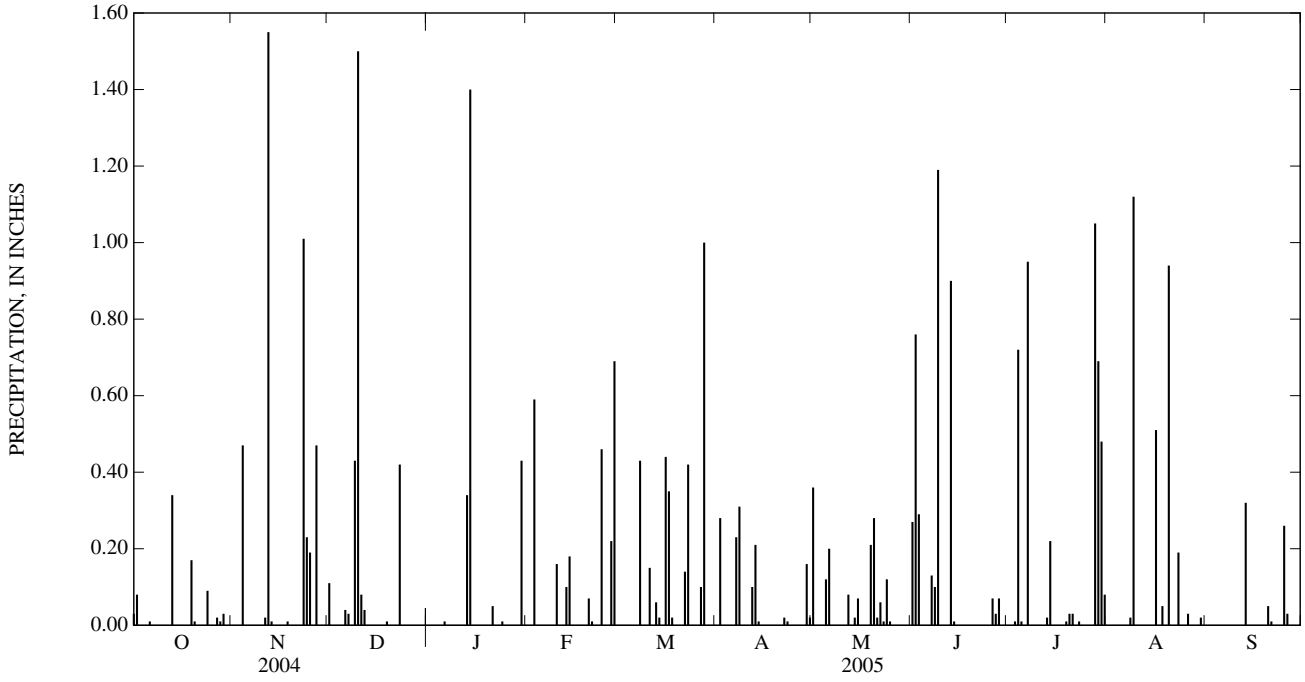
PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.11	0.00	0.00	0.00	0.00	0.36	0.27	0.00	0.00	0.00
2	0.08	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.76	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.59	0.00	0.00	0.00	0.29	0.01	0.00	0.00
4	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.01	0.00	0.00
6	0.01	0.00	0.04	0.01	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
7	0.00	0.00	0.03	0.00	0.00	0.00	0.23	0.00	0.13	0.95	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.43	0.31	0.00	0.10	0.00	0.02	0.00
9	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	1.19	0.00	1.12	0.00
10	0.00	0.00	1.50	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.02	0.08	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.55	0.04	0.00	0.00	0.00	0.10	0.08	0.00	0.00	0.00	0.00
13	0.34	0.01	0.00	0.34	0.10	0.06	0.21	0.00	0.90	0.02	0.00	0.32
14	0.00	0.00	0.00	1.40	0.18	0.02	0.01	0.02	0.01	0.22	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.51	0.00
17	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.05	0.00
19	0.17	0.00	0.01	0.00	0.00	0.00	0.00	0.21	0.00	0.01	0.00	0.00
20	0.01	0.00	0.00	0.00	0.07	0.00	0.00	0.28	0.00	0.03	0.94	0.05
21	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.02	0.00	0.03	0.00	0.01
22	0.00	0.00	0.00	0.00	0.00	0.14	0.02	0.06	0.00	0.00	0.00	0.00
23	0.00	1.01	0.42	0.00	0.00	0.42	0.01	0.01	0.00	0.01	0.19	0.00
24	0.09	0.23	0.00	0.01	0.46	0.00	0.00	0.12	0.00	0.00	0.00	0.00
25	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.26
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.03	0.03
27	0.02	0.47	0.00	0.00	0.22	0.10	0.00	0.00	0.03	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.69	1.00	0.00	0.00	0.07	1.05	0.00	0.00
29	0.03	0.00	0.00	0.00	---	0.00	0.16	0.00	0.00	0.69	0.00	0.00
30	0.00	0.00	0.00	0.43	---	0.00	0.02	0.00	0.00	0.48	0.02	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.08	0.00	---
TOTAL	0.79	3.96	2.66	2.24	2.48	3.13	1.35	1.56	3.82	4.31	2.88	0.67



02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°03'36", long 79°43'33", Guilford County, Hydrologic Unit 03030002, on left bank at upstream side of bridge on Secondary Road 3000, 3.8 mi east of Greensboro, 4.0 mi downstream from Run Creek.

DRAINAGE AREA.--34.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to September 1958. August 1998 to current year. Prior to October 1952, published as "Buffalo Creek near Greensboro".

REVISIONS.--WSP 972: 1928-30, 1932-33, 1934(M), 1935-37, 1939, 1940(M). WSP 1303: 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: Drainage area, 1931, 1941(M).

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge 10,000 ft^3/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft^3/s based on contracted-opening measurement, site and datum then in use.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e9.2	64	13	18	78	30	94	5.6	4.6	25	3.4
2	24	e9.7	32	12	14	40	91	16	143	4.1	8.0	3.0
3	29	e9.6	23	12	226	31	36	9.6	90	3.6	5.8	e2.8
4	13	e113	20	12	49	27	23	7.8	16	118	4.8	e2.6
5	9.7	e29	18	12	21	27	20	7.5	19	38	4.3	e2.5
6	8.2	e13	18	11	15	23	19	54	11	14	4.1	e2.4
7	7.6	e11	41	11	14	22	58	13	14	159	3.6	e2.2
8	7.0	e9.8	22	11	14	170	105	8.7	63	80	3.7	e2.2
9	6.7	e9.6	122	10	14	33	92	8.0	154	11	337	e2.3
10	6.6	e9.8	1,400	9.7	40	23	22	6.4	92	6.5	23	e2.2
11	6.1	e9.8	152	9.8	15	32	19	6.0	12	5.1	9.7	e2.4
12	6.1	544	55	9.8	12	31	20	5.7	7.5	5.3	6.7	e2.3
13	88	111	36	17	12	23	39	14	60	30	6.0	e2.2
14	e19	30	25	870	57	36	65	6.6	143	83	6.8	e3.8
15	e11	21	21	43	33	23	18	12	13	26	5.8	e3.0
16	e9.4	20	19	25	18	183	14	8.1	8.1	9.8	5.0	e7.8
17	e9.2	15	20	20	15	251	12	5.9	6.1	14	55	e9.8
18	e9.2	15	18	15	14	65	12	5.5	5.4	4.9	8.4	e3.9
19	e18	13	17	16	13	35	11	13	5.1	3.7	10	e2.7
20	e21	12	15	13	13	28	11	55	4.7	15	126	e3.0
21	e10	12	22	17	22	24	9.8	25	4.9	5.7	38	e19
22	e9.9	11	16	14	15	25	10	7.1	4.6	13	8.5	e5.7
23	e9.4	334	127	14	12	185	16	16	4.4	7.1	50	e3.6
24	e19	151	38	e12	133	84	9.5	13	4.1	3.2	10	e2.7
25	e12	215	21	13	34	29	8.3	14	4.6	2.8	5.9	e3.9
26	e9.2	50	18	11	19	23	7.8	5.8	3.9	2.5	4.9	e18
27	e9.4	53	15	9.7	16	20	e8.3	4.7	17	2.2	4.5	e4.3
28	e14	227	14	7.8	484	735	8.0	4.5	87	25	4.3	e3.1
29	e14	42	14	12	---	133	25	4.0	11	366	3.8	e2.8
30	e11	30	14	139	---	45	16	3.7	6.3	156	3.9	e2.6
31	e9.3	---	13	38	---	34	---	3.6	---	54	5.6	---
TOTAL	463.0	2,139.5	2,450	1,439.8	1,362	2,518	835.7	458.2	1,020.3	1,273.1	798.1	132.2
MEAN	14.9	71.3	79.0	46.4	48.6	81.2	27.9	14.8	34.0	41.1	25.7	4.41
MAX	88	544	1,400	870	484	735	105	94	154	366	337	19
MIN	6.1	9.2	13	7.8	12	20	7.8	3.6	3.9	2.2	3.6	2.2
CFSM	0.44	2.12	2.35	1.38	1.45	2.42	0.83	0.44	1.01	1.22	0.77	0.13
IN.	0.51	2.37	2.71	1.59	1.51	2.79	0.93	0.51	1.13	1.41	0.88	0.15

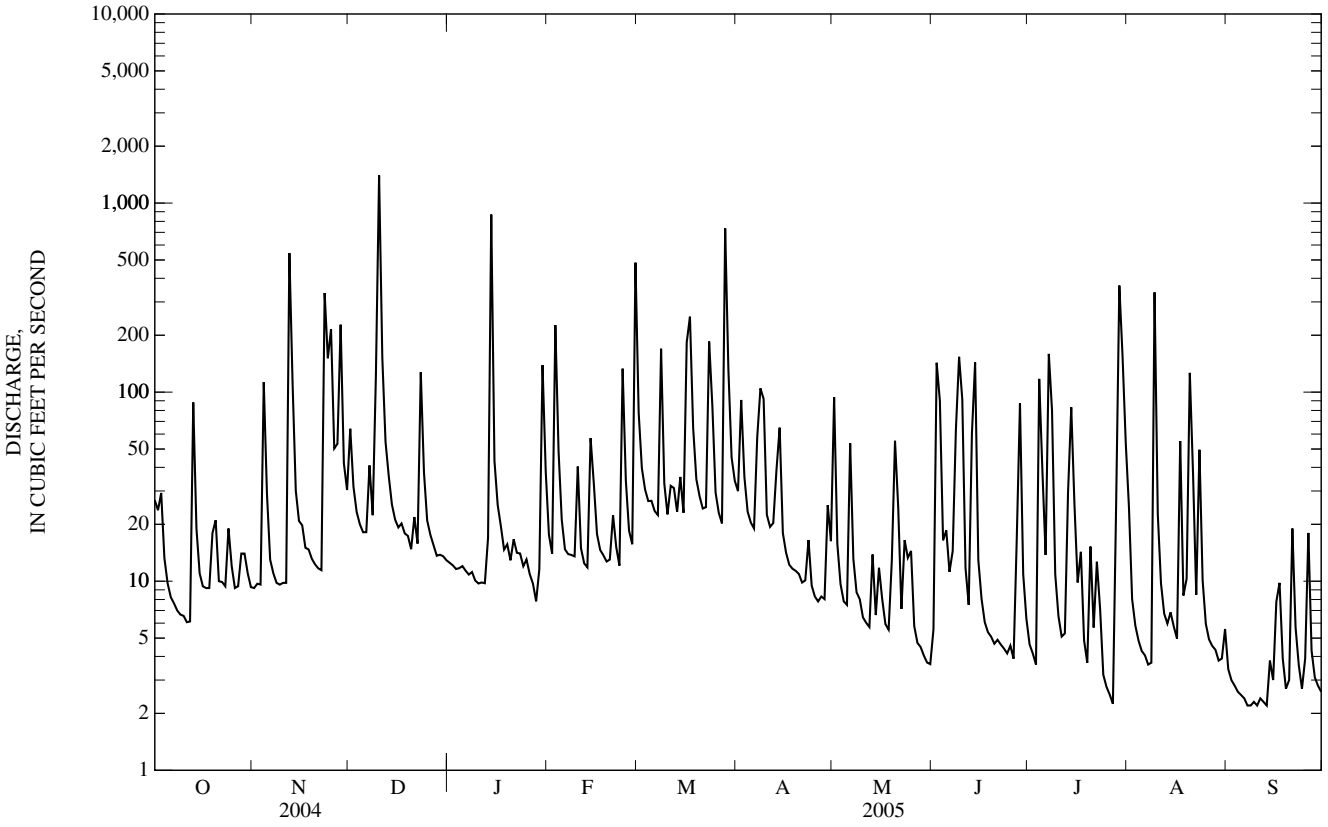
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005,@ BY WATER YEAR (WY)

MEAN	25.8	31.1	41.9	57.5	65.1	62.6	52.4	28.4	31.3	37.7	25.8	45.3
MAX	142	109	130	179	135	197	210	129	166	307	131	218
(WY)	(2003)	(1949)	(2003)	(1937)	(1953)	(2003)	(2003)	(2003)	(2003)	(1949)	(2003)	(2000)
MIN	1.82	3.53	6.86	7.87	14.0	22.5	8.68	6.19	4.40	2.64	2.33	2.26
(WY)	(1931)	(1932)	(1934)	(1942)	(1931)	(1930)	(2002)	(2002)	(1933)	(1932)	(1932)	(1930)

02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005[@]	
ANNUAL TOTAL	21,463.6		14,889.9			
ANNUAL MEAN	58.6		40.8		41.7	
HIGHEST ANNUAL MEAN					137	2003
LOWEST ANNUAL MEAN					21.0	1942
HIGHEST DAILY MEAN	2,000	Sep 28	1,400	Dec 10	5,460	Jul 15, 1949
LOWEST DAILY MEAN	4.2	Jul 16	2.2	Jul 27	0.42	Aug 4, 2002
ANNUAL SEVEN-DAY MINIMUM	4.8	Aug 23	2.3	Sep 7	0.57	Jul 31, 2002
MAXIMUM PEAK FLOW			2,580	Dec 10	10,000*	Jul 15, 1945
INSTANTANEOUS LOW FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			12.97	Dec 10	14.37	Mar 20, 2003
ANNUAL RUNOFF (CFSM)	1.75		1.21		1.24	
ANNUAL RUNOFF (INCHES)	23.76		16.49		16.88	
10 PERCENT EXCEEDS	76		90		77	
50 PERCENT EXCEEDS	17		14		14	
90 PERCENT EXCEEDS	8.9		3.9		4.5	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

PRECIPITATION RECORDS

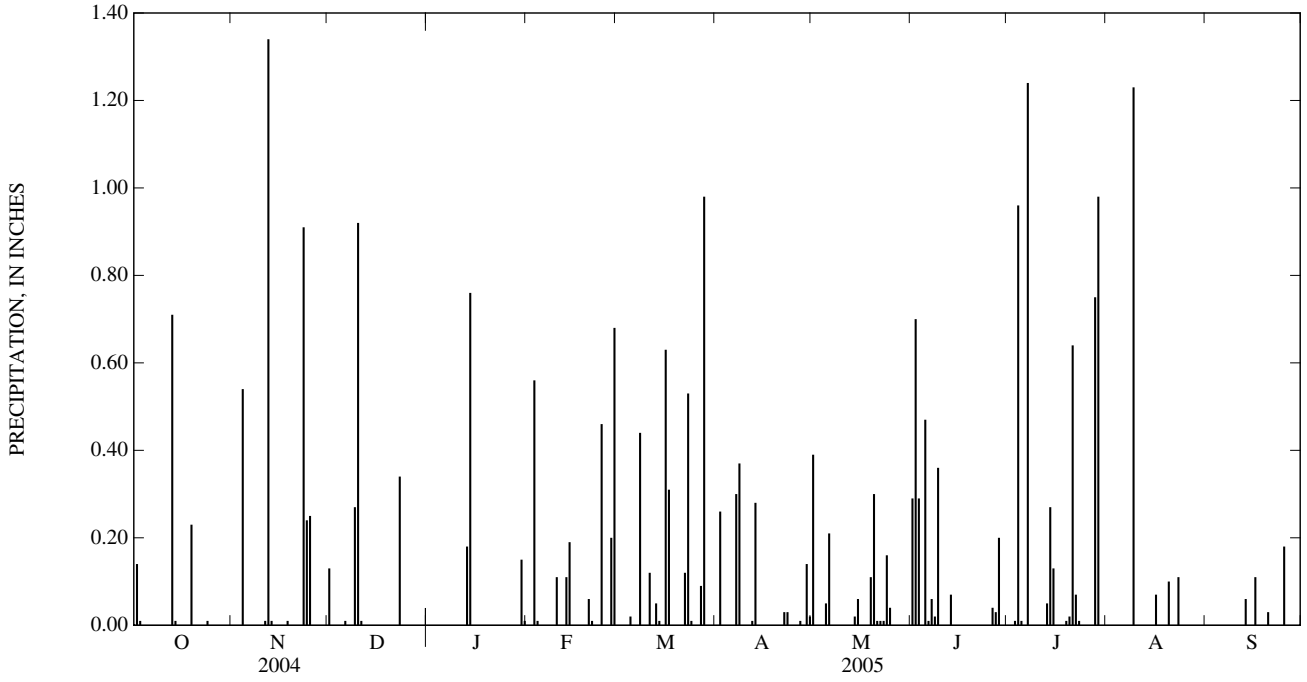
PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.13	0.00	0.00	0.00	0.00	0.39	0.29	0.00	0.00	0.00
2	0.14	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.70	0.00	0.00	0.00
3	0.01	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.29	0.01	0.00	0.00
4	0.00	0.54	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.96	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.05	0.47	0.01	0.00	0.00
6	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.21	0.01	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.06	1.24	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	0.37	0.00	0.02	0.00	0.00	0.00
9	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.36	0.00	1.23	0.00
10	0.00	0.00	0.92	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.01	0.01	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.34	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00
13	0.71	0.01	0.00	0.18	0.11	0.05	0.28	0.00	0.07	0.05	0.00	0.06
14	0.01	0.00	0.00	0.76	0.19	0.01	0.00	0.02	0.00	0.27	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.13	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.07	0.11
17	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.30	0.00	0.02	0.10	0.03
21	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.64	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.12	0.03	0.01	0.00	0.07	0.00	0.00
23	0.00	0.91	0.34	0.00	0.00	0.53	0.03	0.01	0.00	0.01	0.11	0.00
24	0.01	0.24	0.00	0.00	0.46	0.01	0.00	0.16	0.00	0.00	0.00	0.00
25	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.18
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.20	0.09	0.01	0.00	0.03	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.68	0.98	0.00	0.00	0.20	0.75	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.14	0.00	0.00	0.98	0.00	0.00
30	0.00	0.00	0.00	0.15	---	0.00	0.02	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.01	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	---	3.31	1.68	1.10	2.39	3.31	1.45	1.37	2.54	5.15	1.51	0.38



02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC

LOCATION.--Lat 36°04'45", long 79°48'46", Guilford County, Hydrologic Unit 03030002, on right bank at termination of Westover Terrace in Greensboro, 0.7 mi upstream from Southern Railway bridge.

DRAINAGE AREA.--9.55 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.25 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Aug. 11, 12, 2002. Minimum discharge for the current water year also occurred on Sept. 19, 23, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	2.7	13	3.4	3.9	12	8.1	50	3.5	1.5	4.5	1.2
2	2.9	2.8	3.8	3.3	3.6	6.5	23	3.5	49	1.4	1.9	1.2
3	2.4	3.2	3.5	3.2	62	5.7	9.2	3.0	32	3.0	1.7	1.4
4	2.8	49	3.4	3.3	9.0	5.2	8.1	3.0	3.7	53	1.6	1.1
5	2.7	3.7	3.1	3.5	5.2	5.2	6.9	3.2	2.6	5.2	1.5	1.3
6	2.8	2.6	3.3	3.9	4.3	5.2	6.6	18	2.3	1.9	1.4	1.2
7	3.0	2.7	8.7	4.0	4.1	5.2	26	3.3	17	41	1.3	1.7
8	e2.9	2.8	3.2	4.3	3.9	30	60	3.1	31	6.3	3.0	1.6
9	e2.7	2.7	30	3.9	3.7	5.8	14	2.9	56	2.3	72	1.5
10	e2.5	2.6	e369	4.1	12	5.6	6.6	3.1	7.7	1.8	2.8	1.5
11	e2.5	2.7	31	4.1	3.6	6.4	4.9	3.0	2.9	2.2	1.8	1.7
12	e2.9	151	13	4.0	3.5	4.9	5.1	3.1	2.2	3.2	1.5	1.6
13	28	11	10	5.6	3.7	4.5	18	4.1	2.8	e77	12	1.6
14	3.5	3.9	9.4	e220	16	8.3	11	2.9	2.7	56	3.9	2.0
15	2.9	3.3	8.9	7.7	4.5	4.2	4.8	4.2	2.0	6.4	1.5	1.9
16	3.1	3.1	8.6	5.1	3.8	39	4.4	2.9	2.0	4.2	3.9	5.7
17	3.2	3.0	6.5	4.3	3.6	46	4.1	2.6	1.8	3.2	5.0	2.1
18	3.4	2.9	3.8	3.9	3.5	10	4.0	2.7	1.8	3.1	2.1	0.87
19	9.0	3.2	3.7	4.2	4.2	6.5	4.0	9.5	1.8	4.6	2.1	0.78
20	3.9	2.9	3.8	3.9	5.0	6.1	3.7	11	1.8	8.7	53	1.5
21	2.8	2.9	3.7	5.8	5.5	5.6	3.4	6.2	1.8	3.4	4.8	2.9
22	2.7	3.0	4.0	4.0	4.3	11	5.0	2.5	1.7	2.0	1.8	1.1
23	2.7	78	34	3.8	4.1	36	5.1	4.7	1.7	1.9	14	0.90
24	6.8	29	5.0	3.4	32	11	3.3	12	1.7	1.4	2.3	0.94
25	2.7	32	4.1	3.9	4.6	6.5	3.3	3.3	1.7	1.4	1.7	2.3
26	2.4	5.0	3.6	4.0	3.6	6.0	3.4	2.4	1.8	1.4	1.4	7.1
27	2.6	38	3.4	4.0	4.2	6.9	3.6	2.3	16	1.4	1.4	1.2
28	3.8	26	3.3	5.8	117	e248	3.5	2.2	21	33	1.5	0.92
29	3.5	5.1	3.6	8.3	---	17	10	2.1	2.3	74	1.6	0.82
30	3.0	4.3	3.6	34	---	8.4	3.6	2.1	1.8	35	1.5	1.2
31	2.7	---	3.5	5.5	---	7.1	---	2.3	---	6.4	2.5	---
TOTAL	128.6	485.1	611.5	382.2	338.4	585.8	276.7	181.2	278.1	447.3	213.0	52.83
MEAN	4.15	16.2	19.7	12.3	12.1	18.9	9.22	5.85	9.27	14.4	6.87	1.76
MAX	28	151	369	220	117	248	60	50	56	77	72	7.1
MIN	2.4	2.6	3.1	3.2	3.5	4.2	3.3	2.1	1.7	1.4	1.3	0.78
CFSM	0.43	1.69	2.07	1.29	1.27	1.98	0.97	0.61	0.97	1.51	0.72	0.18
IN.	0.50	1.89	2.38	1.49	1.32	2.28	1.08	0.71	1.08	1.74	0.83	0.21

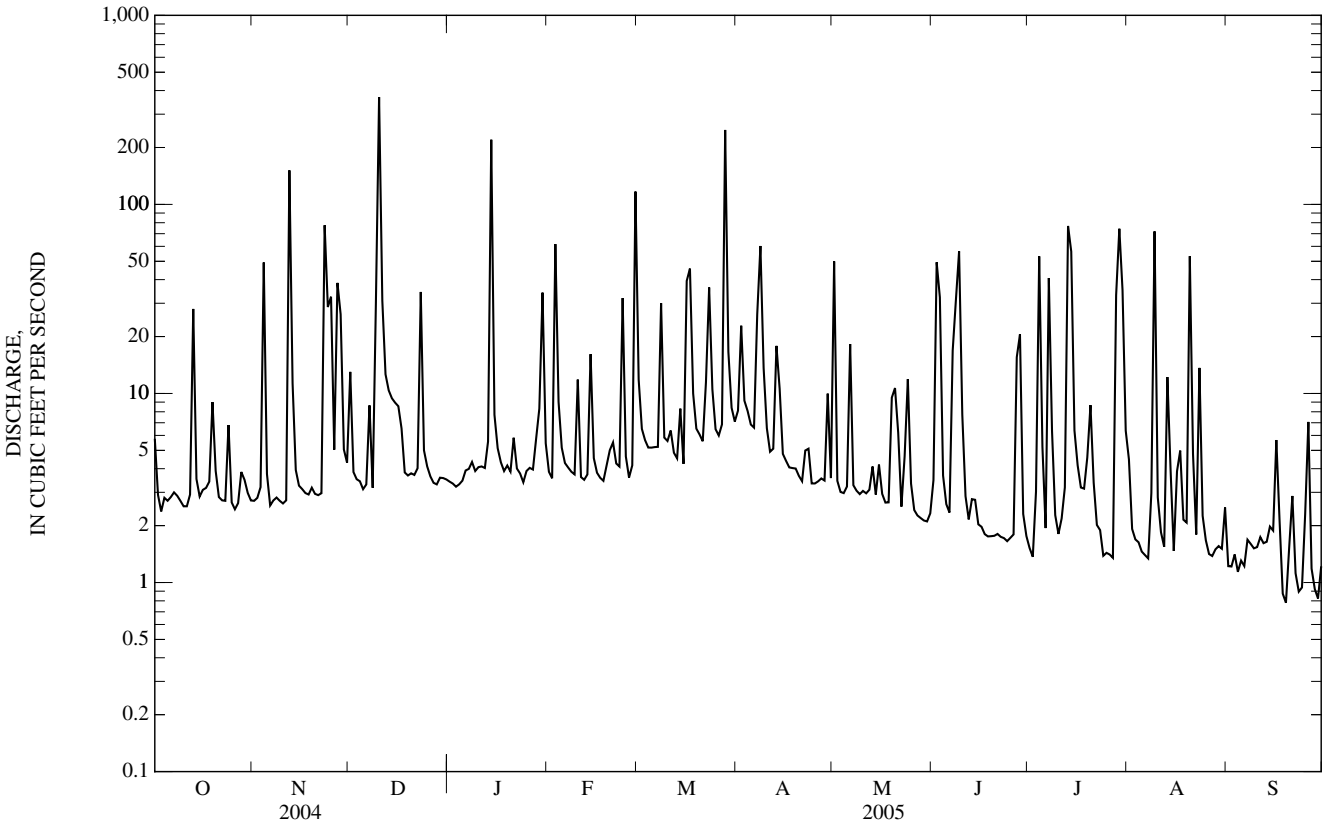
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	9.64	9.95	13.2	11.7	13.5	17.9	15.5	10.7	14.5	14.4	10.5	23.3
MAX	33.2	24.2	28.3	17.7	22.8	37.2	41.1	29.6	27.0	25.6	17.8	46.4
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2003)	(2000)
MIN	2.67	2.09	5.02	4.09	6.37	6.83	3.06	3.50	3.49	5.11	5.95	1.76
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2001)	(2005)

02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	4,714.2		3,980.73			
ANNUAL MEAN	12.9		10.9		13.8	
HIGHEST ANNUAL MEAN					27.1	2003
LOWEST ANNUAL MEAN					6.77	2002
HIGHEST DAILY MEAN	400	Sep 8	369	Dec 10	500	Apr 10, 2003
LOWEST DAILY MEAN	1.3	Jul 16	0.78	Sep 19	0.00	Aug 9, 2002
ANNUAL SEVEN-DAY MINIMUM	1.7	Aug 20	1.3	Sep 18	0.01	Aug 8, 2002
MAXIMUM PEAK STAGE			11.16	Dec 10	14.07	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.70*	Sep 18	0.00*	Aug 10, 2002
ANNUAL RUNOFF (CFSM)	1.35		1.14		1.44	
ANNUAL RUNOFF (INCHES)	18.36		15.51		19.61	
10 PERCENT EXCEEDS	19		27		30	
50 PERCENT EXCEEDS	3.8		3.7		3.6	
90 PERCENT EXCEEDS	2.4		1.6		1.5	

* See REMARKS.
e Estimated.



02095181 NORTH BUFFALO CREEK AT WESTOVER TERRACE AT GREENSBORO, NC—Continued

PRECIPITATION RECORDS

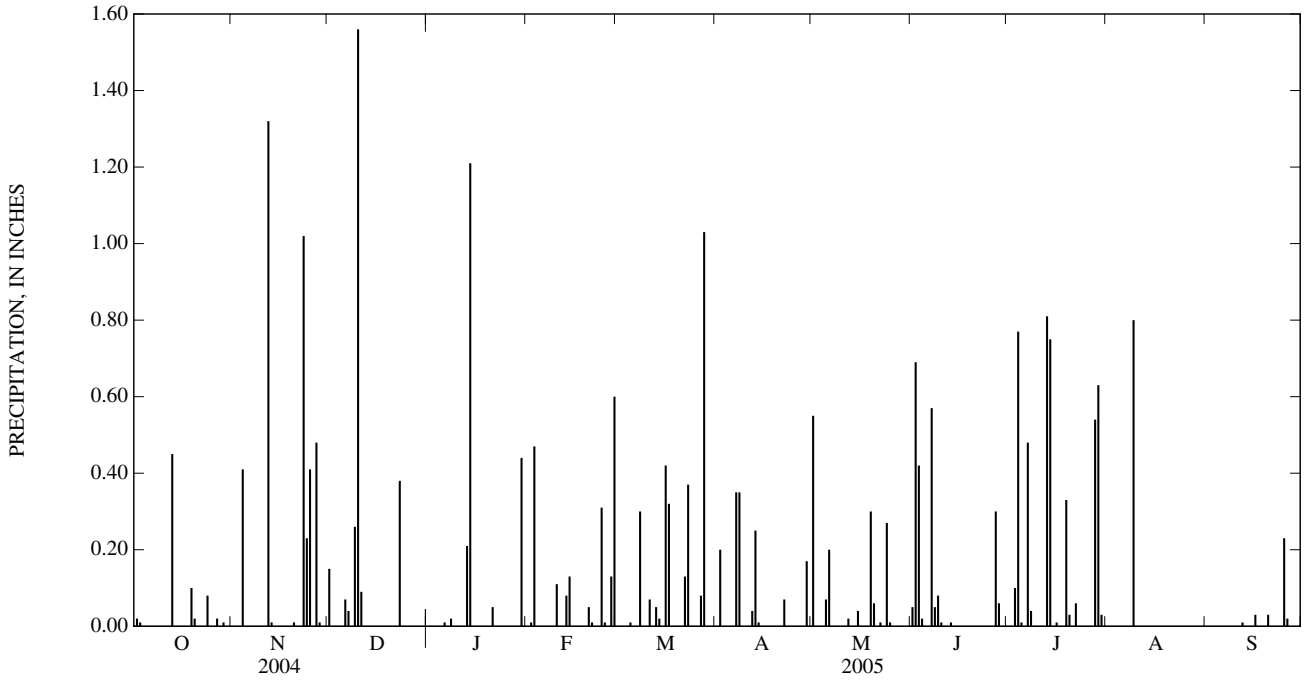
PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.55	0.05	0.00	0.00	0.00
2	0.02	0.00	0.00	0.00	0.01	0.00	0.20	0.00	0.69	0.00	0.00	0.00
3	0.01	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.42	0.10	0.00	0.00
4	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.77	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.01	0.00	0.00
6	0.00	0.00	0.07	0.01	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
7	0.00	0.00	0.04	0.00	0.00	0.00	0.35	0.00	0.57	0.48	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.30	0.35	0.00	0.05	0.04	0.00	0.00
9	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.80	0.00
10	0.00	0.00	1.56	0.00	0.11	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.00	0.09	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.32	0.00	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.01
13	0.45	0.01	0.00	0.21	0.08	0.05	0.25	0.00	0.01	0.81	---	0.00
14	0.00	0.00	0.00	1.21	0.13	0.02	0.01	0.00	0.00	0.75	---	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	---	0.00
16	0.00	0.00	0.00	0.00	0.00	0.42	0.00	0.00	0.00	0.01	---	0.03
17	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	---	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
19	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.33	---	0.00
20	0.02	0.01	0.00	0.00	0.05	0.00	0.00	0.06	0.00	0.03	---	0.03
21	0.00	0.00	0.00	0.05	0.01	0.00	0.00	0.00	0.00	0.00	---	0.00
22	0.00	0.00	0.00	0.00	0.00	0.13	0.07	0.01	0.00	0.06	---	0.00
23	0.00	1.02	0.38	0.00	0.00	0.37	0.00	0.00	0.00	0.00	---	0.00
24	0.08	0.23	0.00	0.00	0.31	0.00	0.00	0.27	0.00	0.00	---	0.00
25	0.00	0.41	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.23
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
27	0.02	0.48	0.00	0.00	0.13	0.08	0.00	0.00	0.30	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.60	1.03	0.00	0.00	0.06	0.54	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.17	0.00	0.00	0.63	0.00	0.00
30	0.00	0.00	0.00	0.44	---	0.00	0.00	0.00	0.00	0.03	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.71	3.90	2.55	1.94	1.91	2.80	1.44	1.53	2.26	4.59	---	0.32
MEAN	0.02	0.13	0.08	0.06	0.07	0.09	0.05	0.05	0.08	0.15	---	0.01
MAX	0.45	1.32	1.56	1.21	0.60	1.03	0.35	0.55	0.69	0.81	---	0.23
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00



02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC

LOCATION.--Lat 36°05'52", long 79°46'57", Guilford County, Hydrologic Unit 03030002, on right bank at upstream side of Church Street, and .1 mi upstream from Southern Railway bridge in Greensboro.

DRAINAGE AREA.--14.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.
REVISED RECORDS.--WDR NC-98-1, WDR NC-99-1B, WDR NC-00-1B, WDR-01-1B: maximum discharges only.

GAGE.--Water-stage recorder. Datum of gage is 738.52 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Minimum discharge for period of record also occurred Aug. 2, 2002. Minimum discharge for current water year also occurred Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	4.5	21	6.7	8.1	17	10	63	4.6	3.6	6.7	2.1
2	7.5	4.6	7.3	6.4	7.2	9.5	33	5.7	74	3.5	4.1	2.0
3	7.2	5.6	6.3	6.2	88	8.2	12	4.8	57	4.9	3.5	2.1
4	6.1	65	6.0	6.2	15	7.7	9.9	4.4	7.1	89	3.2	2.2
5	5.6	8.3	5.6	6.6	9.6	7.9	8.6	4.5	5.6	11	3.1	2.0
6	5.5	6.1	5.8	6.7	8.3	7.8	8.4	25	5.2	4.7	2.9	1.8
7	5.7	6.1	13	6.8	8.4	7.6	31	4.4	35	55	2.6	2.0
8	5.4	5.9	5.9	7.5	7.6	44	73	4.5	33	14	3.2	2.1
9	5.2	5.8	45	6.5	7.2	8.6	22	4.4	52	4.8	119	2.2
10	5.0	5.6	443	5.9	19	7.7	8.8	4.4	17	4.4	5.5	2.2
11	5.2	6.6	48	7.0	7.2	9.4	7.1	4.2	6.2	4.4	3.5	2.1
12	5.5	189	17	6.7	6.5	7.5	7.5	3.8	5.1	5.9	3.1	2.0
13	46	20	14	9.6	6.3	7.0	22	5.0	5.8	105	21	2.6
14	7.1	7.6	12	235	24	12	19	4.3	6.1	81	6.9	2.7
15	5.6	6.9	12	14	8.6	6.4	7.2	6.1	4.3	10	3.0	2.7
16	5.1	6.1	11	9.5	6.4	63	6.7	4.4	4.2	8.0	3.7	12
17	4.8	6.3	9.9	8.5	5.9	74	6.4	4.3	4.3	5.7	8.0	4.2
18	5.5	6.1	7.2	8.0	5.6	15	6.2	4.0	4.2	4.4	3.2	2.2
19	12	6.5	7.4	8.1	6.0	9.9	5.9	19	4.1	7.1	3.7	1.7
20	7.6	6.1	6.4	7.3	6.7	8.9	5.6	18	4.3	19	102	2.6
21	5.4	5.8	6.3	12	7.7	8.8	5.4	11	4.3	5.1	8.6	4.0
22	5.2	5.2	7.1	8.2	6.0	15	6.6	4.3	3.9	7.2	3.6	2.5
23	5.3	124	51	7.0	5.8	60	8.4	6.7	4.1	4.4	20	2.3
24	11	45	8.8	7.3	54	17	5.2	20	4.7	3.0	3.9	2.3
25	5.6	60	7.1	7.9	9.0	8.8	5.1	5.8	4.1	3.0	2.8	3.0
26	5.6	9.1	6.4	8.7	7.5	8.4	4.5	3.7	3.3	3.1	2.7	17
27	5.3	41	6.0	6.7	7.5	8.8	4.8	3.8	27	2.9	2.6	2.8
28	6.2	53	5.9	8.9	158	260	4.5	3.5	26	26	2.6	2.5
29	5.8	9.1	6.3	11	---	25	13	3.5	5.1	126	2.8	2.2
30	5.2	8.0	6.5	54	---	13	5.4	3.7	4.2	33	2.8	2.7
31	4.7	---	6.6	11	---	10	---	3.9	---	8.2	3.3	---
TOTAL	233.9	738.9	821.8	521.9	517.1	773.9	373.2	268.1	425.8	667.3	367.6	96.8
MEAN	7.55	24.6	26.5	16.8	18.5	25.0	12.4	8.65	14.2	21.5	11.9	3.23
MAX	46	189	443	235	158	260	73	63	74	126	119	17
MIN	4.7	4.5	5.6	5.9	5.6	6.4	4.5	3.5	3.3	2.9	2.6	1.7
CFSM	0.53	1.73	1.87	1.19	1.30	1.76	0.88	0.61	1.00	1.52	0.84	0.23
IN.	0.61	1.94	2.15	1.37	1.35	2.03	0.98	0.70	1.12	1.75	0.96	0.25

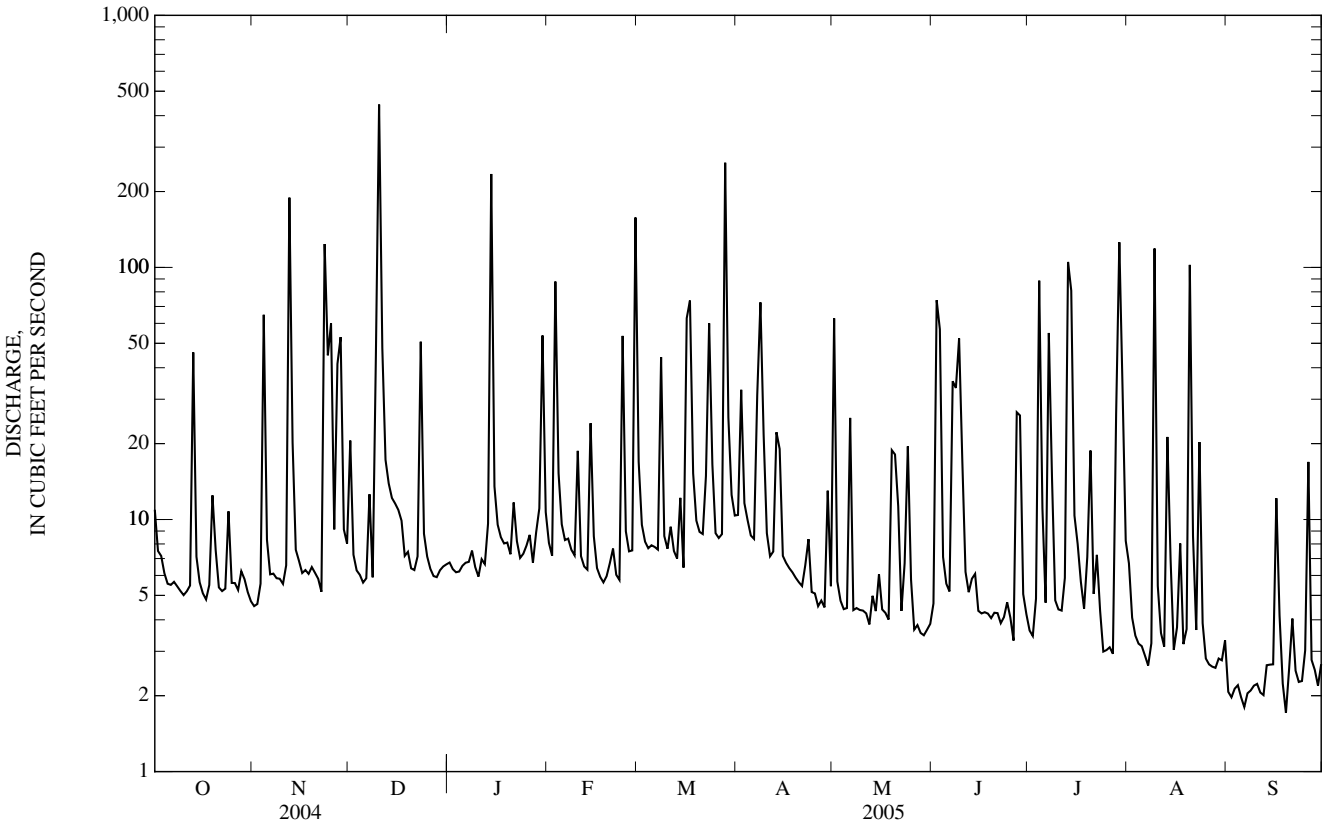
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	15.1	14.9	19.0	19.7	21.2	27.1	24.3	17.4	21.2	23.4	17.2	31.4
MAX	52.1	34.7	33.8	29.4	38.2	67.5	65.5	47.6	40.3	36.8	37.0	63.8
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2001)	(2003)	(2004)
MIN	4.71	3.99	10.1	7.64	10.3	11.8	6.20	8.65	9.73	12.9	11.2	3.23
(WY)	(1999)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2005)	(2002)	(2002)	(2001)	(2005)

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	7,689.8		5,806.3			
ANNUAL MEAN	21.0		15.9		21.3	
HIGHEST ANNUAL MEAN					43.5	2003
LOWEST ANNUAL MEAN					13.3	2002
HIGHEST DAILY MEAN	779	Sep 8	443	Dec 10	850	Sep 23, 2003
LOWEST DAILY MEAN	2.1	Aug 9	1.7	Sep 19	1.4	Aug 2, 2002
ANNUAL SEVEN-DAY MINIMUM	2.7	Aug 4	2.0	Sep 1	1.9	Aug 1, 2002
MAXIMUM PEAK FLOW			1,990	Dec 10	NOT DETERMINED	
MAXIMUM PEAK STAGE			13.94	Dec 10	17.81	Sep 23, 2003
INSTANTANEOUS LOW FLOW			1.4*	Sep 11	1.2*	Oct 17, 1998
ANNUAL RUNOFF (CFSM)	1.48		1.12		1.50	
ANNUAL RUNOFF (INCHES)	20.15		15.21		20.39	
10 PERCENT EXCEEDS	36		33		47	
50 PERCENT EXCEEDS	6.9		6.4		7.5	
90 PERCENT EXCEEDS	4.2		3.0		3.7	

* See REMARKS.



02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC—Continued

PRECIPITATION RECORDS

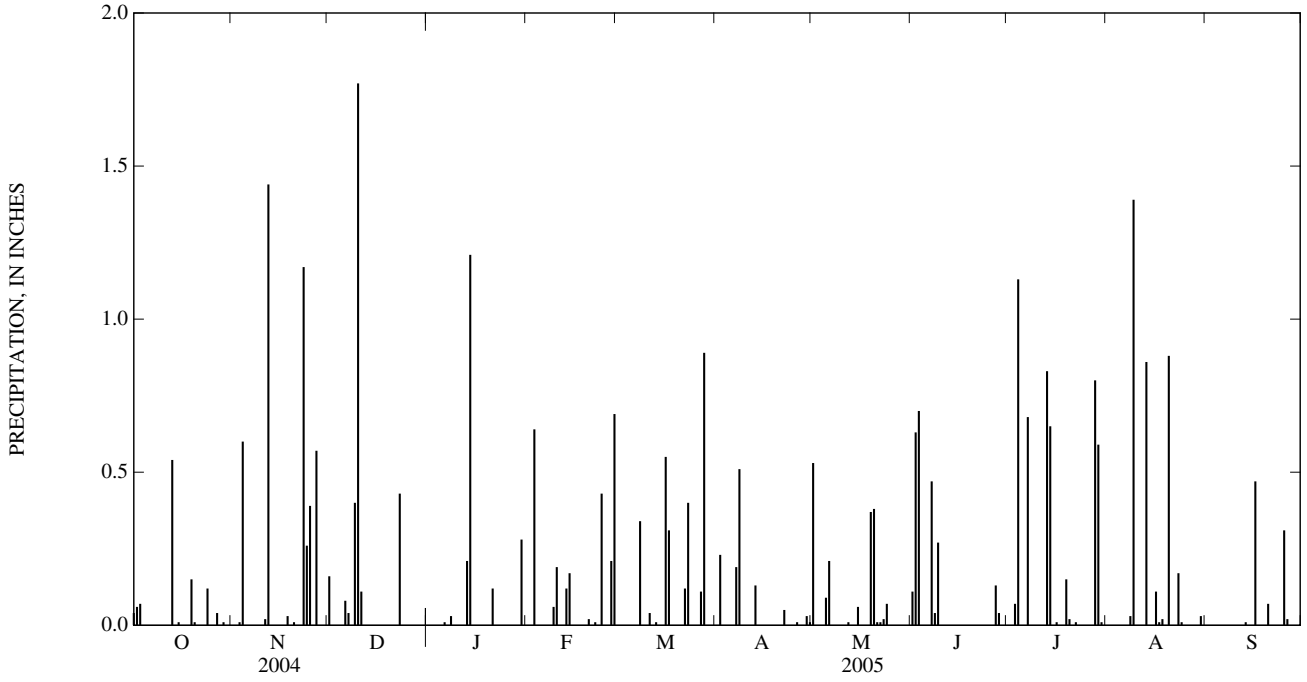
PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.04	0.00	0.16	0.00	0.00	0.00	0.00	0.53	0.11	0.00	0.00	0.00
2	0.06	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.63	0.00	0.00	0.00
3	0.07	0.01	0.00	0.00	0.64	0.00	0.00	0.00	0.70	0.07	0.00	0.00
4	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.08	0.01	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
7	0.00	0.00	0.04	0.00	0.00	0.00	0.19	0.00	0.47	0.68	0.00	0.00
8	0.00	0.00	0.00	0.03	0.00	0.34	0.51	0.00	0.04	0.00	0.03	0.00
9	0.00	0.00	0.40	0.00	0.06	0.00	0.00	0.00	0.27	0.00	1.39	0.00
10	0.00	0.00	1.77	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.02	0.11	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.44	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
13	0.54	0.00	0.00	0.21	0.12	0.01	0.13	0.00	0.00	0.83	0.86	0.01
14	0.00	0.00	0.00	1.21	0.17	0.00	0.00	0.00	0.00	0.65	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.01	0.11	0.47
17	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
19	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.15	0.00	0.00
20	0.01	0.01	0.00	0.00	0.02	0.00	0.00	0.38	0.00	0.02	0.88	0.07
21	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.01	0.12	0.05	0.01	0.00	0.01	0.00	0.00
23	0.00	1.17	0.43	0.00	0.00	0.40	0.00	0.02	0.00	0.00	0.17	0.00
24	0.12	0.26	0.00	0.00	0.43	0.00	0.00	0.07	0.00	0.00	0.01	0.00
25	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02
27	0.04	0.57	0.00	0.00	0.21	0.11	0.00	0.00	0.13	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.69	0.89	0.00	0.00	0.04	0.80	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.03	0.00	0.00	0.59	0.00	0.00
30	0.00	0.00	0.00	0.28	---	0.00	0.01	0.00	0.00	0.01	0.03	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	1.05	4.50	2.99	1.86	2.54	2.77	1.16	1.76	2.39	4.95	3.51	0.88



02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC

LOCATION.--Lat 36°07'14", long 79°42'29", Guilford County, Hydrologic Unit 03030002, on left bank at downstream of bridge on Secondary Road 2832, 4.2 mi upstream from mouth, 5.8 mi northeast of post office in Greensboro.

DRAINAGE AREA.--37.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1928 to October 1990, August 1998 to current year.

REVISED RECORDS.--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above NGVD of 1929 (levels by U. S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Diurnal fluctuation at low flow caused by mills upstream from station. Diversions into basin from Greensboro and Proximity Mills enter upstream from the station. Maximum discharge for period of record, 9,140 ft^3/s, from rating curve extended above 2,900 ft^3/s on basis of contracted-opening measurements at gage heights 14.15 ft, 15.96 ft and 16.63 ft. Maximum gage height for period of record, from floodmarks. Minimum discharge for current water year also occurred on Sept. 9, 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	27	67	29	36	83	42	128	23	21	24	17
2	38	27	45	28	33	45	90	30	126	20	20	17
3	37	28	40	29	193	36	48	25	143	20	19	17
4	34	123	39	29	79	34	39	23	31	111	18	16
5	31	40	37	29	47	35	35	24	24	54	18	16
6	29	30	36	29	39	33	33	55	23	21	18	16
7	30	28	50	29	37	33	68	27	50	97	17	15
8	30	27	39	30	37	90	129	25	54	67	17	13
9	29	27	111	28	36	38	123	23	52	22	234	14
10	28	26	1,090	29	61	35	43	24	76	20	28	16
11	28	27	165	29	35	34	36	23	24	19	21	16
12	27	306	65	29	34	35	34	23	23	21	23	15
13	92	98	50	33	33	30	40	24	22	93	44	16
14	33	42	41	514	65	40	69	23	25	185	33	17
15	29	38	38	67	45	32	33	25	21	48	20	16
16	27	37	37	45	37	134	33	23	21	24	19	27
17	26	35	36	40	34	212	32	21	22	24	35	23
18	26	35	32	36	33	69	29	24	20	20	20	15
19	34	34	31	34	33	46	28	43	21	20	21	16
20	37	34	30	34	32	41	29	55	20	39	119	15
21	28	33	30	40	37	37	30	56	21	20	37	17
22	27	33	32	34	33	34	28	24	22	20	20	15
23	27	268	101	34	32	148	31	26	21	23	42	15
24	35	146	42	32	117	85	26	40	20	17	21	16
25	30	188	32	34	44	45	25	30	21	17	19	15
26	27	57	31	34	32	39	24	23	19	17	18	44
27	27	56	30	33	31	37	24	22	29	17	17	18
28	29	193	30	31	365	480	24	21	61	18	17	16
29	28	59	30	34	---	117	39	21	22	244	18	16
30	29	47	30	121	---	52	28	22	21	51	18	15
31	27	---	30	49	---	46	---	22	---	38	19	---
TOTAL	1,002	2,149	2,497	1,626	1,670	2,255	1,292	975	1,078	1,428	1,014	520
MEAN	32.3	71.6	80.5	52.5	59.6	72.7	43.1	31.5	35.9	46.1	32.7	17.3
MAX	92	306	1,090	514	365	480	129	128	143	244	234	44
MIN	26	26	30	28	31	30	24	21	19	17	17	13
CFSM	0.87	1.93	2.17	1.41	1.61	1.96	1.16	0.85	0.97	1.24	0.88	0.47
IN.	1.00	2.15	2.50	1.63	1.67	2.26	1.30	0.98	1.08	1.43	1.02	0.52

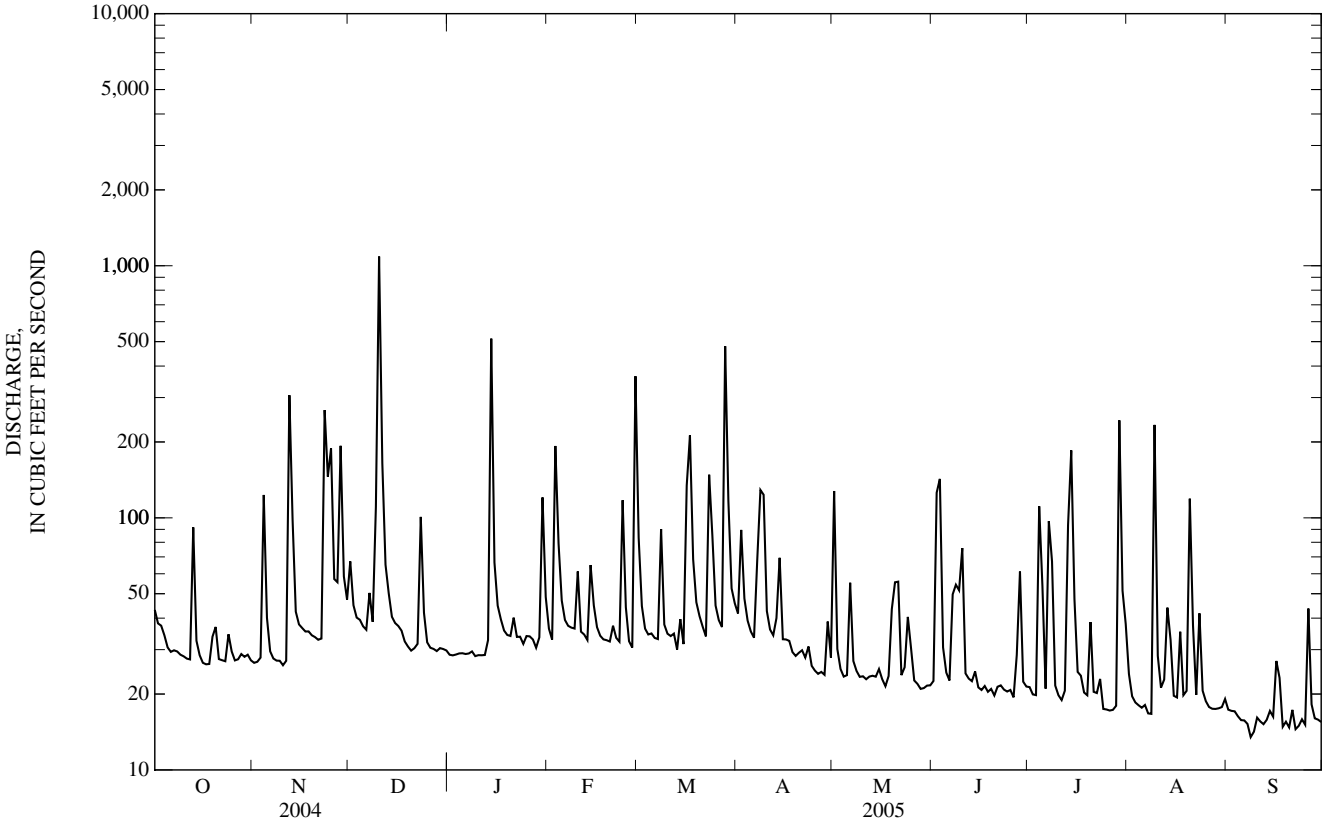
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005,@ BY WATER YEAR (WY)

MEAN	43.3	43.6	56.8	70.3	82.2	79.6	66.6	52.9	50.8	51.5	43.5	51.2
MAX	154	120	129	205	185	231	206	177	192	231	112	247
(WY)	(1960)	(1986)	(1973)	(1978)	(1979)	(1975)	(1987)	(1978)	(1982)	(1984)	(1984)	(1979)
MIN	7.71	8.73	13.1	17.3	22.0	31.4	20.3	16.2	10.2	11.2	7.82	8.63
(WY)	(1931)	(1932)	(1934)	(1934)	(1931)	(1931)	(1942)	(1938)	(1933)	(1932)	(1932)	(1930)

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005[@]	
ANNUAL TOTAL	20,378		17,506			
ANNUAL MEAN	55.7		48.0		57.5	
HIGHEST ANNUAL MEAN					109	2003
LOWEST ANNUAL MEAN					30.6	1938
HIGHEST DAILY MEAN	1,320	Sep 28	1,090	Dec 10	4,400	Sep 22, 1979
LOWEST DAILY MEAN	17	Sep 4	13	Sep 8	3.4	Aug 28, 1932
ANNUAL SEVEN-DAY MINIMUM	19	Aug 23	15	Sep 6	6.2	Aug 28, 1930
MAXIMUM PEAK FLOW			3,070	Dec 10	9,140*	Sep 22, 1979
MAXIMUM PEAK STAGE			12.21	Dec 10	20.12*	Sep 22, 1979
INSTANTANEOUS LOW FLOW			11*	Sep 8	1.6	Aug 28, 1932
ANNUAL RUNOFF (CFSM)	1.50		1.29		1.55	
ANNUAL RUNOFF (INCHES)	20.43		17.55		21.05	
10 PERCENT EXCEEDS	86		87		100	
50 PERCENT EXCEEDS	32		31		31	
90 PERCENT EXCEEDS	23		18		16	

[@] See PERIOD OF RECORD.
* See REMARKS.



02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

PRECIPITATION RECORDS

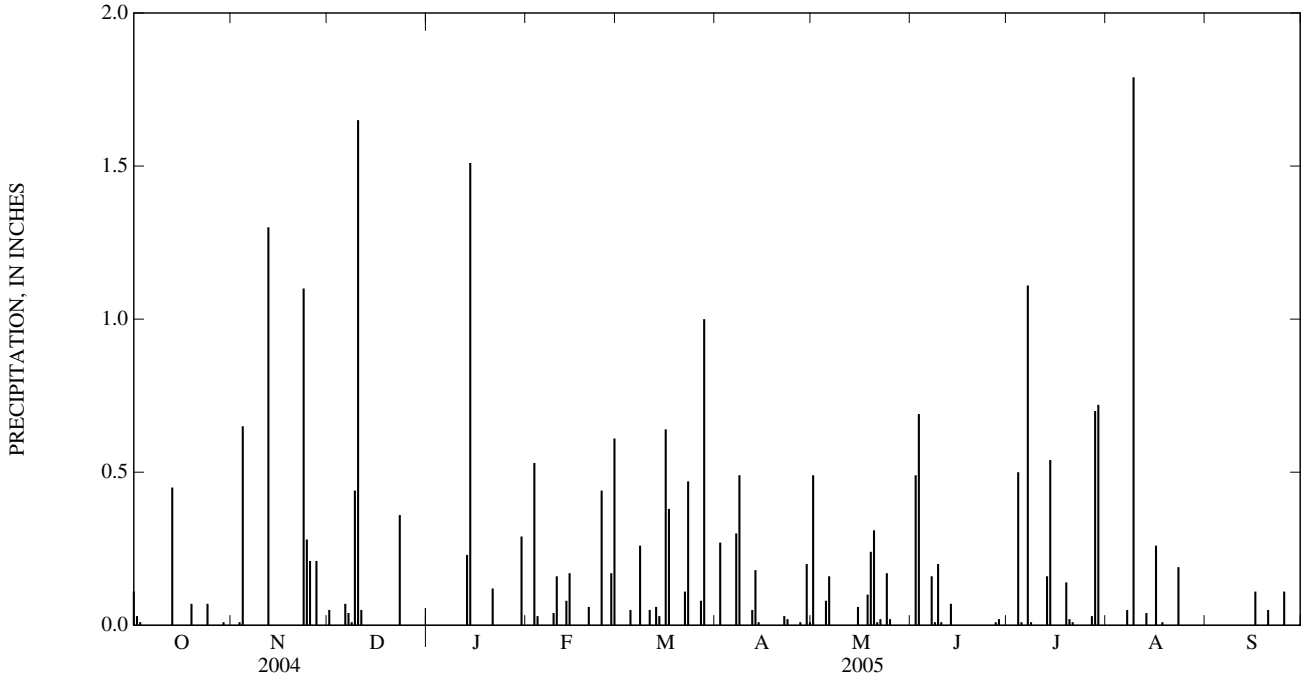
PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.11	0.00	0.05	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00
2	0.03	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.49	0.00	0.00	0.00
3	0.01	0.01	0.00	0.00	0.53	0.00	0.00	0.00	0.69	0.00	0.00	0.00
4	0.00	0.65	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.50	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.08	0.00	0.01	0.00	0.00
6	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
7	0.00	0.00	0.04	0.00	0.00	0.00	0.30	0.00	0.16	1.11	0.05	0.00
8	0.00	0.00	0.01	0.00	0.00	0.26	0.49	0.00	0.01	0.01	0.00	0.00
9	0.00	0.00	0.44	0.00	0.04	0.00	0.00	0.00	0.20	0.00	1.79	0.00
10	0.00	0.00	1.65	0.00	0.16	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.30	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
13	0.45	0.00	0.00	0.23	0.08	0.06	0.18	0.00	0.07	0.16	0.04	0.00
14	0.00	0.00	0.00	1.51	0.17	0.03	0.01	0.00	0.00	0.54	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.26	0.11
17	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.01	0.00
19	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.14	0.00	0.00
20	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.31	0.00	0.02	0.00	0.05
21	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.11	0.03	0.02	0.00	0.00	0.00	0.00
23	0.00	1.10	0.36	0.00	0.00	0.47	0.02	0.00	0.00	0.00	0.19	0.00
24	0.07	0.28	0.00	0.00	0.44	0.00	0.00	0.17	0.00	0.00	0.00	0.00
25	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.11
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.21	0.00	0.00	0.17	0.08	0.01	0.00	0.01	0.03	0.00	0.00
28	0.00	0.00	0.00	0.00	0.61	1.00	0.00	0.00	0.02	0.70	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.20	0.00	0.00	0.72	0.00	0.00
30	0.00	0.00	0.00	0.29	---	0.00	0.01	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	0.75	3.76	2.67	2.15	2.29	3.13	1.57	1.66	1.66	3.95	2.34	0.27



0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC

LOCATION.--Lat 36°07'41", long 79°39'42", Guilford County, Hydrologic Unit 03030002, on left bank of upstream side of bridge on Secondary Road 2819, 300 ft downstream of the confluence of North Buffalo Creek and South Buffalo Creek, and 1.3 mi north of McLeansville.

DRAINAGE AREA.--88.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.
REVISED RECORDS.--WDR NC-02-1B: 1999(M).

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for current water year also occurred Sept. 10, 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	124	65	156	75	106	297	116	266	62	55	95	53
2	109	66	121	72	97	145	215	97	282	47	63	49
3	106	67	102	e77	450	e115	139	78	320	44	61	48
4	89	237	92	e77	301	e101	105	71	101	115	56	49
5	76	133	87	e78	143	99	100	72	71	257	53	49
6	74	73	86	e77	107	92	89	151	76	64	53	49
7	77	64	113	e77	103	91	137	87	82	117	51	46
8	78	60	93	e78	97	284	235	72	166	364	52	48
9	71	65	235	e74	95	131	426	68	113	68	649	50
10	72	62	3,170	e74	150	96	125	69	298	54	112	44
11	69	59	589	e75	103	94	103	68	74	55	69	45
12	68	744	195	e75	89	114	102	69	62	55	63	44
13	198	596	145	e90	86	85	117	74	63	75	77	49
14	105	129	117	2,040	140	105	201	66	210	380	86	55
15	75	104	105	255	150	88	101	69	63	179	55	51
16	66	102	99	138	102	304	88	74	57	70	56	51
17	65	88	98	111	90	647	83	65	58	72	123	72
18	66	86	90	e100	87	249	84	65	51	58	60	50
19	68	86	85	e100	83	140	82	69	47	58	61	52
20	112	80	82	94	80	114	79	157	49	87	173	48
21	70	76	86	109	98	105	77	144	51	61	198	61
22	71	77	87	97	89	99	81	69	56	59	64	55
23	64	699	244	95	80	349	84	75	52	68	114	53
24	75	413	138	e94	293	296	72	77	51	51	67	47
25	79	544	89	90	155	132	71	99	52	52	55	46
26	67	165	80	92	99	109	71	67	49	50	56	99
27	69	119	81	88	87	99	74	61	54	48	48	54
28	69	555	77	86	1,010	1,420	69	59	194	51	51	50
29	70	159	79	83	---	429	94	55	68	619	50	47
30	73	120	79	312	---	164	90	56	54	176	55	44
31	66	---	76	178	---	126	---	61	---	228	59	---
TOTAL	2,541	5,893	6,976	5,161	4,570	6,719	3,510	2,630	2,986	3,737	2,885	1,558
MEAN	82.0	196	225	166	163	217	117	84.8	99.5	121	93.1	51.9
MAX	198	744	3,170	2,040	1,010	1,420	426	266	320	619	649	99
MIN	64	59	76	72	80	85	69	55	47	44	48	44
CFSM	0.93	2.22	2.54	1.88	1.84	2.45	1.32	0.96	1.12	1.36	1.05	0.59
IN.	1.07	2.48	2.93	2.17	1.92	2.82	1.48	1.11	1.26	1.57	1.21	0.65

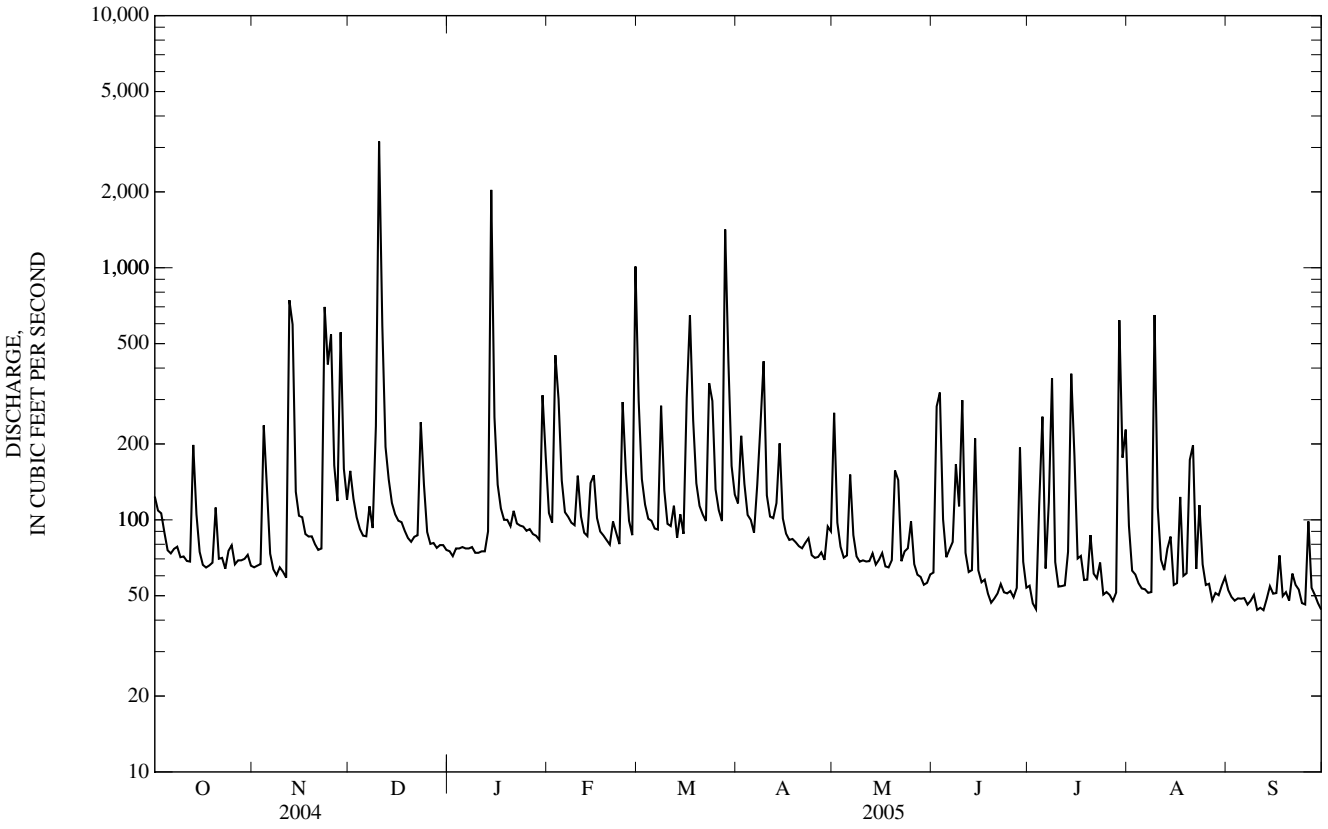
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	122	122	163	171	174	213	207	132	152	158	132	245
MAX	346	286	362	271	299	532	552	343	329	262	291	412
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	57.6	53.1	77.5	86.3	100	99.7	74.5	70.7	55.3	75.2	76.5	51.9
(WY)	(1999)	(1999)	(2001)	(2004)	(1999)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	58,579		49,166			
ANNUAL MEAN	160		135		168	
HIGHEST ANNUAL MEAN					349	2003
LOWEST ANNUAL MEAN					100	2002
HIGHEST DAILY MEAN	3,530	Sep 28	3,170	Dec 10	4,550	Mar 20, 2003
LOWEST DAILY MEAN	45	Aug 25	44	Jul 3	37	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	49	Aug 23	47	Sep 6	40	Aug 8, 2002
MAXIMUM PEAK FLOW			5,140	Dec 10	6,720	Mar 20, 2003
MAXIMUM PEAK STAGE			16.39	Dec 10	19.35	Mar 20, 2003
INSTANTANEOUS LOW FLOW			32*	Jul 3	22	Jul 21, 2002
ANNUAL RUNOFF (CFSM)	1.81		1.52		1.90	
ANNUAL RUNOFF (INCHES)	24.62		20.67		25.84	
10 PERCENT EXCEEDS	218		236		295	
50 PERCENT EXCEEDS	83		82		81	
90 PERCENT EXCEEDS	60		51		54	

* See REMARKS.
e Estimated



0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC—Continued

PRECIPITATION RECORDS

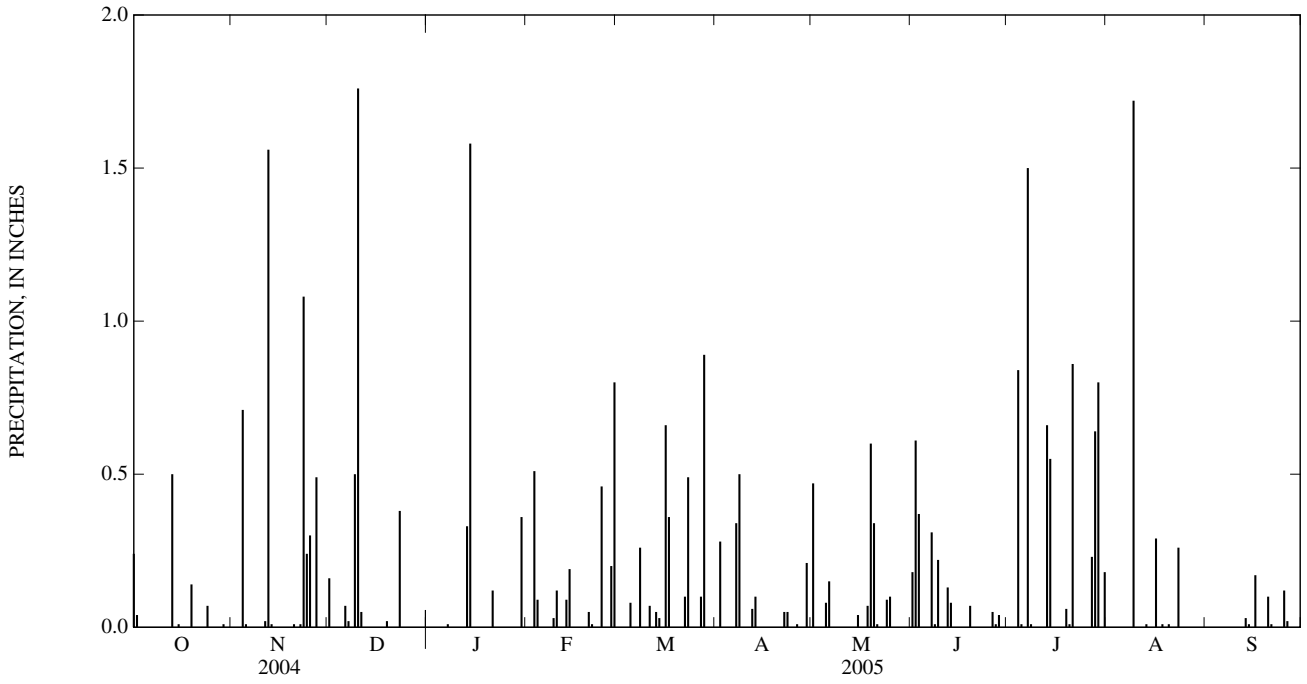
PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.24	0.00	0.16	0.00	0.00	0.00	0.00	0.47	0.18	0.00	0.00	0.00
2	0.04	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.61	0.00	0.00	0.00
3	0.00	0.00	0.00	---	0.51	0.00	0.00	0.00	0.37	0.00	0.00	0.00
4	0.00	0.71	0.00	---	0.09	0.00	0.00	0.00	0.00	0.84	0.00	0.00
5	0.00	0.01	0.00	---	0.00	0.08	0.00	0.08	0.00	0.01	0.00	0.00
6	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.01	0.00	0.00	0.34	0.00	0.31	1.50	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.26	0.50	0.00	0.01	0.01	0.00	0.00
9	0.00	0.00	0.50	0.00	0.03	0.00	0.00	0.00	0.22	0.00	1.72	0.00
10	0.00	0.00	1.76	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.02	0.05	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.56	0.00	0.00	0.00	0.00	0.06	0.00	0.13	0.00	0.00	0.00
13	0.50	0.01	0.00	0.33	0.09	0.05	0.10	0.00	0.08	0.66	0.01	0.03
14	0.00	0.00	0.00	1.58	0.19	0.03	0.00	0.00	0.00	0.55	0.00	0.01
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.29	0.17
17	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.01	0.00
19	0.14	0.00	0.02	0.00	0.00	0.00	0.00	0.60	0.07	0.06	0.00	0.00
20	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.34	0.00	0.01	0.01	0.10
21	0.00	0.00	0.00	0.12	0.01	0.00	0.00	0.01	0.00	0.86	0.00	0.01
22	0.00	0.01	0.00	0.00	0.00	0.10	0.05	0.00	0.00	0.00	0.00	0.00
23	0.00	1.08	0.38	0.00	0.00	0.49	0.05	0.00	0.00	0.00	0.26	0.00
24	0.07	0.24	0.00	0.00	0.46	0.00	0.00	0.09	0.00	0.00	0.00	0.00
25	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.12
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.05	0.00	0.00	0.02
27	0.00	0.49	0.00	0.00	0.20	0.10	0.00	0.00	0.01	0.23	0.00	0.00
28	0.00	0.00	0.00	0.00	0.80	0.89	0.00	0.00	0.04	0.64	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	0.21	0.00	0.00	0.80	0.00	0.00
30	0.00	0.00	0.00	0.36	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.18	0.00	---
TOTAL	1.01	4.44	2.96	---	2.55	3.09	1.60	1.95	2.08	6.35	2.30	0.46



02096500 HAW RIVER AT HAW RIVER, NC

LOCATION.--Lat 36°05'14", long 79°21'58", Alamance County, Hydrologic unit 03030002, on left bank at Haw River, 650 ft downstream of Southern Railway bridge, 800 ft downstream of bridge on U.S. Highway 70 and State Highway 49, and 3 mi downstream of Stony Creek.

DRAINAGE AREA.--606 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 757: 1929 (M). WSP 782: 1934. WSP 1383: 1930,1932(M), 1933(m), 1936, 1943, 1944 (M), 1947(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 471.69 ft above NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are poor. Diurnal fluctuations and occasional regulation at low flows. City of Burlington diverted an average of 4.9 ft^3/s from two Stony Creek Reservoirs (stations 02096003 and 02096432) for municipal water supply, about half of which was returned upstream of station as treated effluent, the remainder was returned downstream of station. Maximum discharge for period of record from rating curve extended above 38,000 ft^3/s, by logarithmic plotting; maximum gage height, 32.83 ft, from flood mark. Minimum discharge for current water year also occurred Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	179	754	260	593	2,690	1,270	503	171	139	269	102
2	1,160	179	721	257	530	1,340	1,080	659	217	131	204	97
3	799	180	465	254	580	844	1,110	399	578	116	163	93
4	474	313	374	260	1,640	636	671	330	576	136	146	103
5	347	671	327	419	1,080	546	512	281	354	440	132	102
6	280	346	301	292	840	523	437	283	305	254	121	96
7	242	274	314	258	479	440	531	381	277	211	113	90
8	215	238	794	252	423	521	1,520	284	306	1,140	111	88
9	205	209	394	244	428	870	1,600	257	813	442	359	87
10	193	188	8,580	231	434	552	721	238	907	351	767	87
11	183	179	6,610	231	453	428	518	227	705	272	251	85
12	174	1,190	2,990	229	364	412	481	220	550	215	234	82
13	210	4,220	1,630	261	349	379	721	234	410	195	242	83
14	557	1,210	1,160	5,790	375	351	641	224	419	2,330	212	85
15	257	850	772	3,750	551	387	509	210	333	1,220	167	93
16	197	692	533	1,320	458	532	397	222	251	442	141	91
17	164	498	459	929	420	2,150	349	215	207	315	189	94
18	157	383	429	661	348	1,970	322	197	179	274	201	113
19	165	332	377	458	306	1,070	303	218	154	e260	135	89
20	259	300	340	396	280	833	295	1,320	144	e240	133	91
21	278	267	300	394	282	596	294	1,060	135	e200	441	101
22	241	249	295	427	325	474	292	521	133	e230	192	99
23	224	594	406	425	295	694	297	352	132	e260	140	98
24	212	2,600	967	330	373	2,070	301	296	124	e200	193	89
25	221	2,230	455	297	771	1,230	280	271	118	e140	137	88
26	209	1,500	361	299	452	1,010	260	239	115	119	124	87
27	195	923	314	299	363	881	252	199	115	115	130	139
28	191	2,140	284	286	1,900	3,840	245	182	162	117	124	96
29	188	1,400	269	254	---	4,570	248	186	244	511	118	88
30	187	921	272	397	---	2,090	315	179	156	627	103	82
31	188	---	265	896	---	1,380	---	171	---	430	102	---
TOTAL	9,892	25,455	32,512	21,056	15,692	36,309	16,772	10,558	9,290	12,072	6,094	2,818
MEAN	319	848	1,049	679	560	1,171	559	341	310	389	197	93.9
MAX	1,320	4,220	8,580	5,790	1,900	4,570	1,600	1,320	907	2,330	767	139
MIN	157	179	265	229	280	351	245	171	115	115	102	82
CFSM	0.53	1.40	1.73	1.12	0.92	1.93	0.92	0.56	0.51	0.64	0.32	0.16
IN.	0.61	1.56	2.00	1.29	0.96	2.23	1.03	0.65	0.57	0.74	0.37	0.17

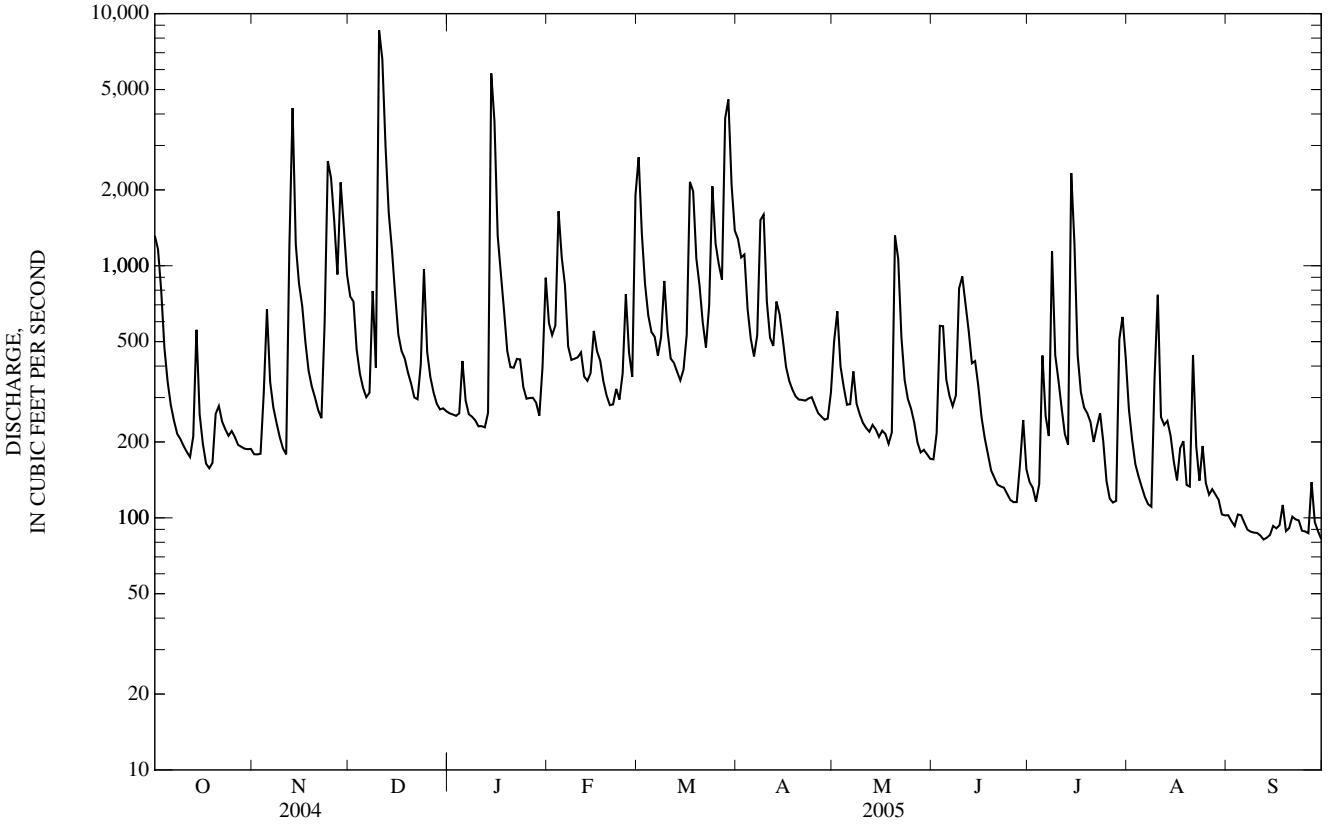
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005, BY WATER YEAR (WY)

MEAN	395	412	582	886	998	1,025	828	490	427	394	357	450
MAX	2,480	1,286	1,553	2,977	2,492	3,276	2,771	1,948	2,145	2,348	1,662	4,373
(WY)	(1960)	(1948)	(2003)	(1937)	(1998)	(1993)	(1987)	(1978)	(1982)	(1984)	(1939)	(1996)
MIN	48.9	61.1	118	172	236	289	164	107	74.5	70.9	57.2	33.4
(WY)	(1942)	(1954)	(1934)	(1956)	(2002)	(1967)	(2002)	(2002)	(2002)	(1932)	(1953)	(1954)

02096500 HAW RIVER AT HAW RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005	
ANNUAL TOTAL	212,959		198,520			
ANNUAL MEAN	582		544		602	
HIGHEST ANNUAL MEAN					1,489	2003
LOWEST ANNUAL MEAN					200	2002
HIGHEST DAILY MEAN	8,580	Dec 10	8,580	Dec 10	42,000	Sep 7, 1996
LOWEST DAILY MEAN	102	Jul 17	82	Sep 12	5.0	Sep 6, 1930
ANNUAL SEVEN-DAY MINIMUM	132	Aug 23	85	Sep 8	16	Oct 7, 1954
MAXIMUM PEAK FLOW			12,900	Dec 10	51,400*	Sep 6, 1996
MAXIMUM PEAK STAGE			19.65	Dec 10	32.83*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			75*	Sep 11	3.0	Sep 5, 1930
ANNUAL RUNOFF (CFSM)	0.960		0.898		0.993	
ANNUAL RUNOFF (INCHES)	13.07		12.19		13.49	
10 PERCENT EXCEEDS	1,150		1,150		1,260	
50 PERCENT EXCEEDS	312		296		296	
90 PERCENT EXCEEDS	165		116		101	

* See REMARKS.
e Estimated.



02096500 HAW RIVER AT HAW RIVER, NC—Continued

PRECIPITATION RECORDS

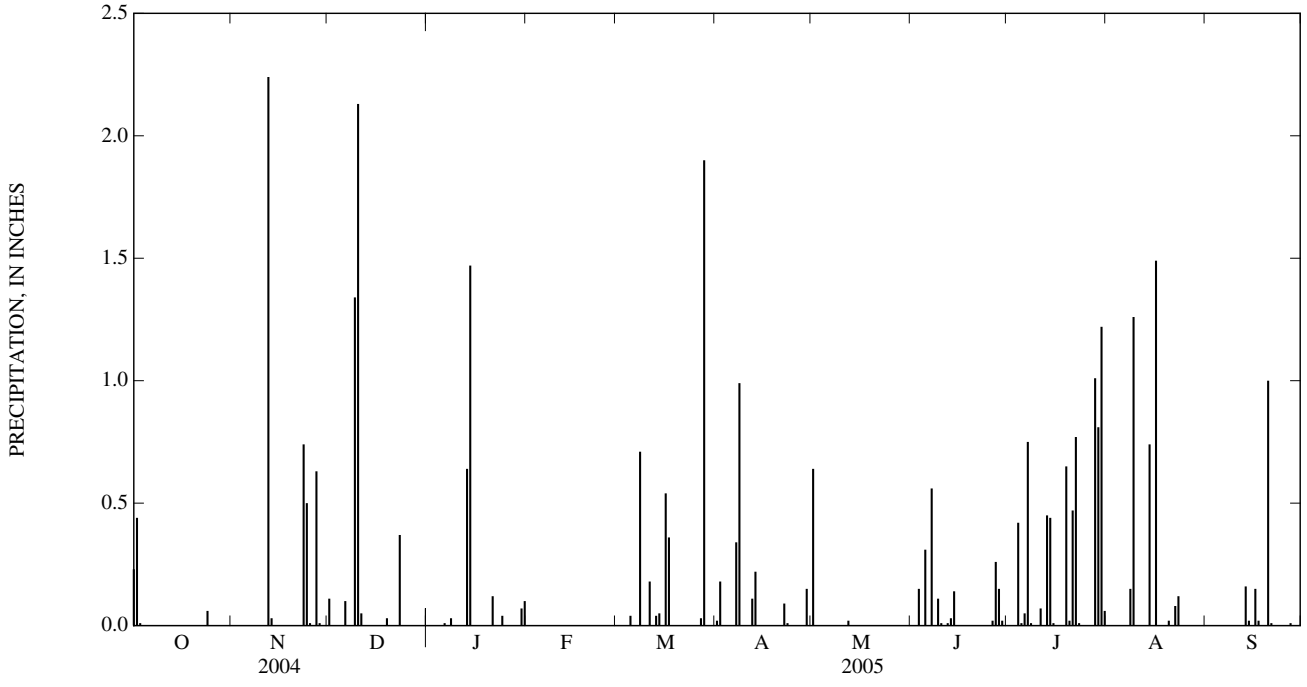
PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to September 2003 are unpublished and available in the USGS Water Science Center in Raleigh, NC.

GAGE.--Tipping bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.23	0.00	0.11	0.00	0.00	---	0.02	0.64	---	0.00	0.00	0.00
2	0.44	0.00	0.00	0.00	0.00	---	0.18	0.00	---	0.00	0.00	0.00
3	0.01	0.00	0.00	0.00	---	---	0.00	0.00	0.15	0.00	0.00	0.00
4	---	---	0.00	0.00	---	0.00	0.00	0.00	0.00	0.42	0.00	0.00
5	---	---	0.00	0.00	---	0.04	0.00	0.00	0.31	0.01	0.00	0.00
6	---	0.00	0.10	0.01	---	0.00	0.00	0.00	0.00	0.05	0.00	0.00
7	---	---	0.00	0.00	---	0.00	0.34	0.00	0.56	0.75	0.00	0.00
8	---	---	0.00	0.03	---	0.71	0.99	0.00	0.00	0.01	0.15	0.00
9	---	---	1.34	0.00	---	0.00	0.00	0.00	0.11	0.00	1.26	0.00
10	---	0.00	2.13	0.00	---	0.00	0.00	0.00	0.01	0.00	0.00	0.00
11	---	0.00	0.05	0.00	---	0.18	0.00	0.00	0.00	0.07	0.00	0.00
12	---	2.24	0.00	0.00	---	0.00	0.11	0.02	0.01	0.00	0.00	0.00
13	---	0.03	0.00	0.64	---	0.04	0.22	0.00	0.03	0.45	0.00	0.16
14	---	0.00	0.00	1.47	---	0.05	0.00	0.00	0.14	0.44	0.74	0.02
15	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.01	0.00	0.00
16	---	0.00	0.00	0.00	---	0.54	0.00	0.00	0.00	0.00	1.49	0.15
17	---	0.00	0.00	0.00	---	0.36	0.00	0.00	0.00	0.00	0.00	0.02
18	---	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	---	0.00	0.03	0.00	---	0.00	0.00	---	0.00	0.65	0.00	0.00
20	---	0.00	0.00	0.00	---	0.00	0.00	---	0.00	0.02	0.02	1.00
21	---	0.00	0.00	0.12	---	0.00	0.00	---	0.00	0.47	0.00	0.01
22	0.00	0.00	0.00	0.00	---	---	0.09	---	0.00	0.77	0.08	0.00
23	0.00	0.74	0.37	0.00	---	---	0.01	---	0.00	0.01	0.12	0.00
24	0.06	0.50	0.00	0.04	---	0.00	0.00	---	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	---	0.00	0.00	---	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	---	0.00	0.00	---	0.02	0.00	0.00	0.00
27	0.00	0.63	0.00	0.00	---	0.03	0.00	---	0.26	0.00	0.00	0.01
28	0.00	0.01	0.00	0.00	---	1.90	0.00	---	0.15	1.01	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.15	---	0.02	0.81	0.00	0.00
30	0.00	0.00	0.00	0.07	---	0.00	0.00	---	0.00	1.22	0.00	0.00
31	0.00	---	0.00	0.10	---	0.00	---	---	---	0.06	0.00	---
TOTAL	---	---	4.13	2.48	---	---	2.11	---	---	7.23	3.86	1.37



02096846 CANE CREEK NEAR ORANGE GROVE, NC

LOCATION.--Lat 35°59'14", long 79°12'22", Orange County, Hydrologic Unit 03030002, on right bank at downstream side of bridge on Secondary Road 1114, and 1.0 mi northwest of Orange Grove.

DRAINAGE AREA.--7.54 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 510 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 500 ft^3/s, based on contracted-opening measurement of peak flow; maximum gage-height, 7.90 ft, from flood mark. No flow occurs at times most years. Minimum discharge for current water year also occurred July 16, 17.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	1.0	4.1	1.8	6.0	20	8.7	6.2	0.68	0.48	0.24	0.00
2	2.3	0.91	3.4	1.7	4.4	9.8	13	3.1	1.7	0.37	0.18	0.00
3	3.0	1.2	2.8	1.6	13	6.8	10	2.2	2.5	0.29	0.15	0.00
4	2.2	1.8	2.5	1.7	16	5.4	6.8	1.9	1.9	0.50	0.12	0.00
5	1.7	2.0	2.3	1.6	8.0	4.8	5.6	1.7	1.2	0.47	0.10	0.00
6	1.4	1.3	2.1	1.6	5.7	4.3	4.9	2.2	0.95	0.34	0.09	0.00
7	1.3	1.2	2.6	1.5	4.5	3.8	4.8	2.1	0.80	0.33	0.07	0.00
8	1.2	1.1	2.5	1.5	3.9	34	24	1.8	1.8	0.77	0.09	0.00
9	1.1	0.87	2.3	1.4	3.5	16	24	1.5	0.99	0.45	1.5	0.00
10	1.2	0.87	23	1.3	3.5	8.8	9.1	1.3	0.87	0.30	1.1	0.00
11	1.1	0.89	13	1.3	2.9	7.6	6.7	1.2	0.73	0.24	0.40	0.00
12	1.0	3.7	6.9	1.3	2.7	8.4	5.6	3.5	0.61	0.23	0.22	0.00
13	9.8	8.9	4.6	1.6	2.5	6.1	8.8	5.8	0.62	0.21	0.16	0.00
14	4.1	2.8	3.4	112	3.1	5.3	7.7	2.4	0.69	0.20	0.12	0.00
15	2.4	1.9	2.8	19	4.1	4.5	5.6	1.8	0.55	0.27	0.12	0.00
16	1.8	1.6	2.5	9.6	3.4	14	4.9	1.6	0.41	0.22	0.26	0.00
17	1.4	1.5	2.4	6.4	3.0	47	4.1	1.3	0.31	0.19	2.0	0.00
18	1.3	1.4	2.3	4.5	2.5	19	4.1	1.2	0.27	0.16	0.63	0.00
19	1.2	1.3	2.2	3.8	2.2	11	3.6	2.9	0.22	0.15	0.30	0.00
20	1.2	1.4	2.0	3.7	2.2	8.3	3.4	5.4	0.21	0.35	0.23	0.00
21	1.2	1.2	1.8	4.1	2.6	6.6	3.0	8.7	0.20	0.23	0.19	0.00
22	1.2	1.2	1.9	3.9	2.5	5.6	2.7	2.8	0.19	0.16	0.14	0.00
23	1.1	8.1	2.8	3.4	2.2	13	3.0	1.9	0.19	0.13	0.10	0.00
24	1.2	14	3.4	2.7	7.9	14	2.6	1.5	0.19	0.10	0.10	0.00
25	1.2	8.0	2.5	2.9	8.2	8.4	2.4	1.3	0.15	0.09	0.09	0.00
26	1.3	3.9	2.2	3.4	4.8	6.8	2.2	1.1	0.13	0.08	0.07	0.00
27	1.3	2.9	2.0	2.9	3.7	6.0	2.3	0.97	1.1	0.07	0.06	0.00
28	0.95	25	1.8	2.0	44	87	2.0	0.88	2.8	0.07	0.05	0.00
29	1.0	8.2	1.8	2.0	---	39	2.3	0.80	1.0	0.17	0.04	0.00
30	1.1	5.0	1.9	8.8	---	15	2.5	0.80	0.69	0.22	0.02	0.00
31	1.0	---	1.8	11	---	10	---	0.72	---	0.26	0.01	---
TOTAL	55.15	115.14	113.6	226.0	173.0	456.3	190.4	72.57	24.65	8.10	8.95	0.00
MEAN	1.78	3.84	3.66	7.29	6.18	14.7	6.35	2.34	0.82	0.26	0.29	0.00
MAX	9.8	25	23	112	44	87	24	8.7	2.8	0.77	2.0	0.00
MIN	0.95	0.87	1.8	1.3	2.2	3.8	2.0	0.72	0.13	0.07	0.01	0.00
CFSM	0.24	0.51	0.49	0.97	0.82	1.95	0.84	0.31	0.11	0.03	0.04	0.00
IN.	0.27	0.57	0.56	1.12	0.85	2.25	0.94	0.36	0.12	0.04	0.04	0.00

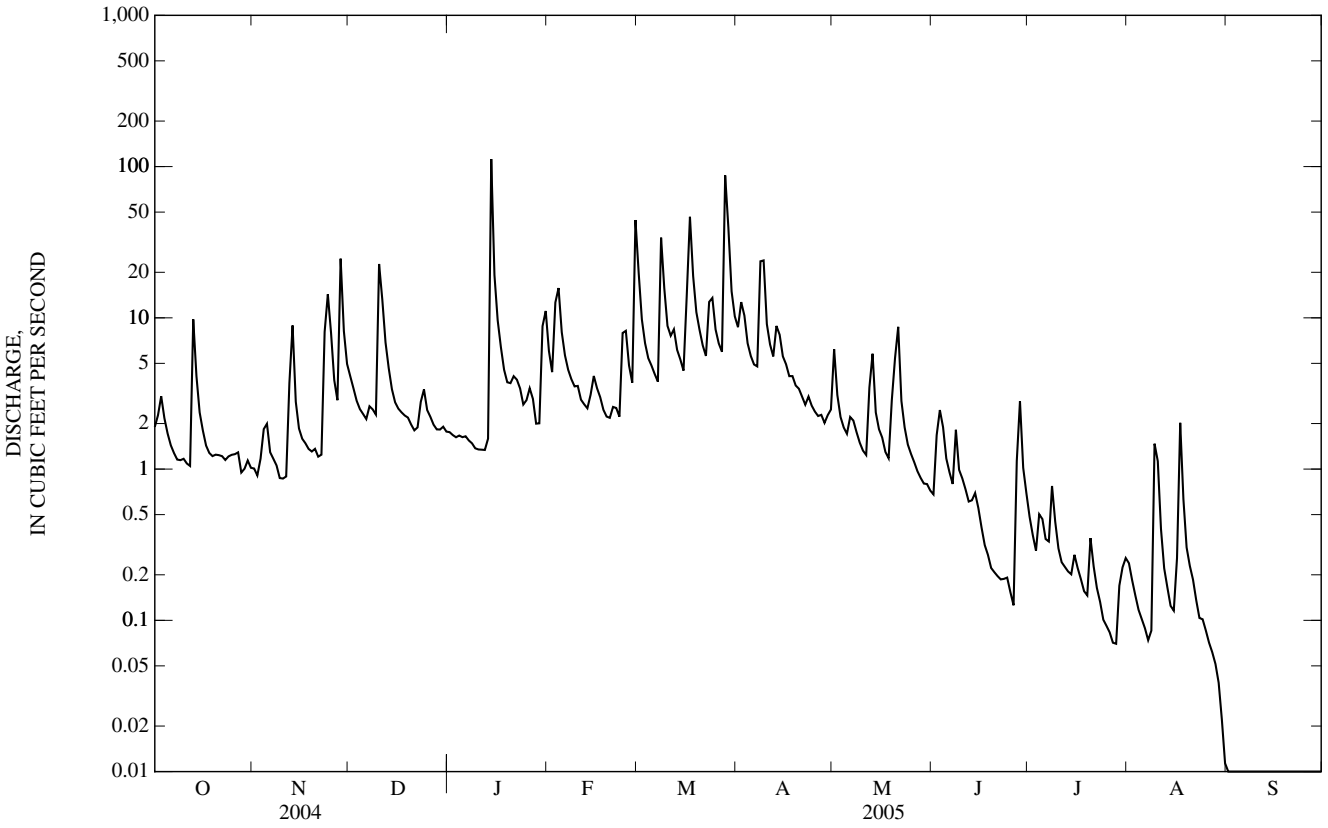
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	2.86	3.47	5.59	11.5	12.3	18.0	10.3	5.28	3.78	2.41	1.57	4.18
MAX	13.0	15.5	19.8	28.3	34.3	46.3	37.2	18.7	16.4	13.5	9.50	25.9
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(1995)	(2000)	(2004)	(1996)
MIN	0.01	0.01	0.29	1.93	2.15	2.68	1.06	0.13	0.02	0.04	0.04	0.00
(WY)	(1999)	(1999)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005	
ANNUAL TOTAL	1,529.56		1,443.86			
ANNUAL MEAN	4.18		3.96		6.60	
HIGHEST ANNUAL MEAN					14.3	2003
LOWEST ANNUAL MEAN					0.99	2002
HIGHEST DAILY MEAN	163	Aug 30	112	Jan 14	516	Mar 4, 1993
LOWEST DAILY MEAN	0.03	Jul 16	0.00	Sep 1	0.00	Sep 17, 1990
ANNUAL SEVEN-DAY MINIMUM	0.05	Jul 13	0.00	Sep 1	0.00	Sep 17, 1990
MAXIMUM PEAK FLOW			388	Jan 14	2,060*	Sep 6, 1996
MAXIMUM PEAK STAGE			3.93	Jan 14	7.90*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 2	0.00*	Sep 17, 1990
ANNUAL RUNOFF (CFSM)	0.554		0.525		0.875	
ANNUAL RUNOFF (INCHES)	7.55		7.12		11.89	
10 PERCENT EXCEEDS	8.2		8.7		12	
50 PERCENT EXCEEDS	1.8		1.7		1.8	
90 PERCENT EXCEEDS	0.19		0.07		0.07	

* See REMARKS.



02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT													
18...	1130	9	1.4	25	752	9.5	90	6.9	101	12.2	33	8.12	2.98
DEC													
09...	1030	9	2.2	35	751	10.1	90	7.4	90	9.9	31	7.66	2.85
FEB													
08...	1030	9	3.9	50	754	12.3	102	6.6	81	7.2	26	6.30	2.40
MAR													
28...	1000	9	287	200	734	9.2	89	6.3	65	12.5	20	4.64	1.99
APR													
13...	1230	9	9.0	50	744	9.6	91	7.1	74	12.1	27	6.77	2.35
JUN													
16...	1100	9	.41	50	744	7.1	83	6.9	107	22.0	39	10.1	3.26
16...	1105	R	--	50	744	7.1	83	6.9	107	22.0	38	10.0	3.25
AUG													
10...	1000	9	1.1	100	758	7.3	85	6.8	91	23.1	29	7.42	2.46

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
18...	1.65	5.89	30	37	7.46	E.1	16.2	3.3	72	.30	.010	.921	.002
DEC													
09...	1.32	5.80	24	29	7.31	E.1	14.5	4.0	68	.25	E.005	.636	.003
FEB													
08...	.89	5.99	29	35	6.77	E.1	12.4	5.3	62	.20	E.006	.578	.003
MAR													
28...	2.75	3.83	17	21	4.19	E.1	7.19	5.3	60	3.9	.307	.282	.007
APR													
13...	.86	5.06	22	27	5.42	<.1	10.7	3.0	53	.42	.045	.420	.006
JUN													
16...	1.18	5.77	35	43	5.32	E.1	16.9	1.8	85	.32	.022	.502	.003
16...	1.26	5.72	32	39	5.34	E.1	16.8	1.9	79	.34	.021	.507	.003
AUG													
10...	2.83	4.41	31	37	4.52	E.1	11.0	3.4	70	.51	.025	.194	.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)
OCT													
18...	.017	.042	4.6	53	<2	<.04	E.5	.254	1.3	680	.23	17	<.01
DEC													
09...	.008	.028	4.5	--	--	--	--	--	--	--	--	--	--
FEB													
08...	<.006	.022	4.6	--	--	--	--	--	--	--	--	--	--
MAR													
28...	.087	.70	49.5	4,770	<2	.10	3.0	8.68	10.8	9,680	11.0	1,240	.02
APR													
13...	<.006	.037	6.1	16	<2	<.04	<.8	.360	.8	350	.10	48	<.01
JUN													
16...	.013	.060	5.5	--	--	--	--	--	--	--	--	--	--
16...	.015	.062	5.1	--	--	--	--	--	--	--	--	--	--
AUG													
10...	.036	.113	7.9	--	--	--	--	--	--	--	--	--	--

02096846 CANE CREEK NEAR ORANGE GROVE, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)
OCT						
18...	<.2	.51	E.3	<.16	4	3
DEC						
09...	--	--	--	--	--	3
FEB						
08...	--	--	--	--	--	5
MAR						
28...	<.2	2.24	E.2	<.16	33	1,080
APR						
13...	<.2	.22	.5	<.16	E1	11
JUN						
16...	--	--	--	--	--	7
16...	--	--	--	--	--	8
AUG						
10...	--	--	--	--	--	12

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.
R -- Quality-control sample, surface water.

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC

LOCATION.--Lat 35°57'00", long 79°14'28", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, 0.7 mi above State Highway 54, and 3.6 mi northwest of White Cross.

DRAINAGE AREA.--31.4 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
22...	0945	9	20	1.0	.60	754	5.7	61	6.9	91	18.5	27	6.69
22...	0950	9	--	6.0	--	754	5.6	60	7.0	84	18.3	--	--
22...	0955	9	--	12.0	--	754	.3	3	7.3	138	9.8	--	--
APR													
15...	0930	9	30	1.0	.90	755	8.8	89	7.6	77	15.3	26	6.26
15...	0935	9	--	7.0	--	755	6.2	56	6.8	77	10.3	--	--
15...	0940	9	--	13.0	--	755	5.1	44	7.0	80	8.6	--	--
JUN													
17...	0945	9	15	1.0	3.10	746	7.5	97	8.6	103	27.1	25	6.07
17...	0950	9	--	6.0	--	746	.1	1	6.4	92	13.1	--	--
17...	0955	9	--	13.0	--	746	.3	3	6.7	117	9.5	--	--
AUG													
12...	1115	9	10	1.0	2.00	753	8.0	106	8.5	89	29.5	28	6.57
12...	1116	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1117	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1118	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1119	R	--	1.0	2.00	753	8.0	106	8.5	89	29.5	--	--
12...	1120	9	--	6.0	--	753	.2	2	6.2	99	13.8	--	--
12...	1125	9	--	12.0	--	753	.2	2	6.5	132	10.0	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
22...	2.48	2.73	4.10	30	37	5.22	E.1	8.52	2.9	61	.71	.055	.016
22...	--	--	--	--	--	--	--	--	--	--	.70	.056	.017
22...	--	--	--	--	--	--	--	--	--	--	1.8	1.37	E.008
APR													
15...	2.55	1.97	4.63	23	28	5.84	E.1	8.54	4.3	69	.55	.014	.325
15...	--	--	--	--	--	--	--	--	--	--	.49	.034	.340
15...	--	--	--	--	--	--	--	--	--	--	.63	.235	.359
JUN													
17...	2.49	1.86	4.87	22	27	5.98	E.1	5.56	4.2	60	.51	.011	.037
17...	--	--	--	--	--	--	--	--	--	--	.57	.129	.176
17...	--	--	--	--	--	--	--	--	--	--	1.2	.658	E.013
AUG													
12...	2.71	1.86	5.05	24	30	6.17	E.1	6.02	3.6	56	.44	E.008	<.016
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	24	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	.66	.182	<.016
12...	--	--	--	--	--	--	--	--	--	--	1.8	1.19	<.016

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

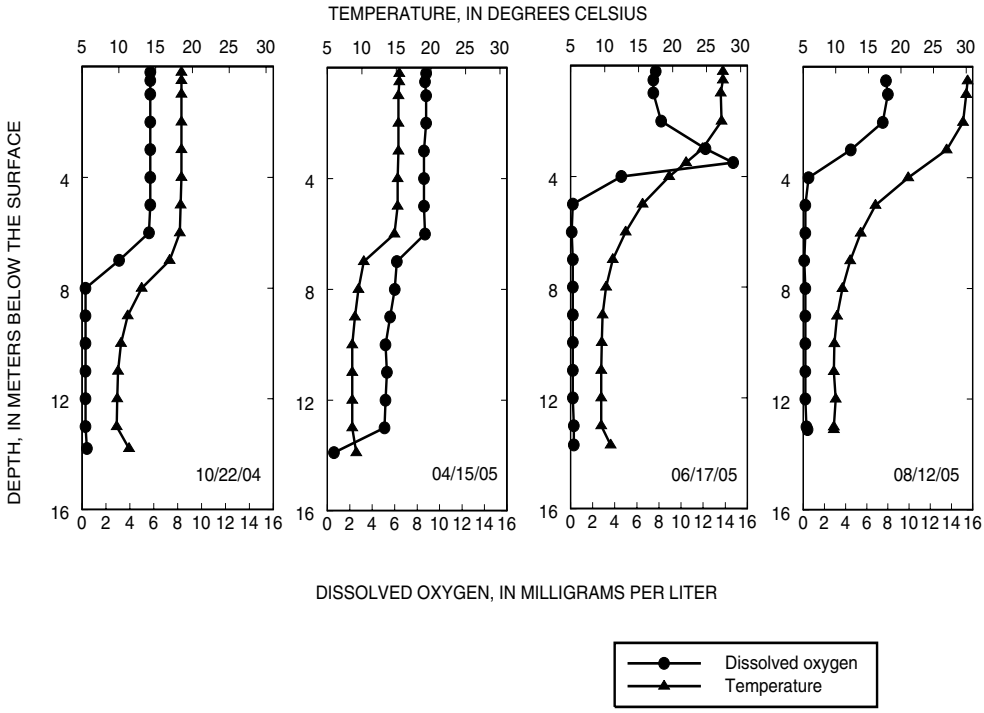
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
22...	E.001	<.006	.021	9.2	E4.2	<.1	11	<2	<.04	<.8	.185	E.4	130
22...	.002	<.006	.019	--	--	--	--	--	--	--	--	--	130
22...	.004	.068	.097	--	--	--	--	--	--	--	--	--	10,200
APR													
15...	.005	<.006	.029	7.4	2.7	<.1	54	<2	<.04	<.8	.169	1.4	200
15...	.006	<.006	.027	--	--	--	--	--	--	--	--	--	190
15...	.016	<.006	.020	--	--	--	--	--	--	--	--	--	220
JUN													
17...	.002	<.006	.018	6.4	2.5	<.1	--	--	--	--	--	--	80
17...	.064	<.006	.026	--	--	--	--	--	--	--	--	--	180
17...	.007	.010	.039	--	--	--	--	--	--	--	--	--	2,320
AUG													
12...	<.002	<.012	.008	7.7	2.7	<.1	--	--	--	--	--	--	50
12...	--	--	--	--	2.1	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	2.5	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	3.9	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	3.6	<.1	--	--	--	--	--	--	--
12...	<.002	<.012	.024	--	--	--	--	--	--	--	--	--	170
12...	.003	.016	.084	--	--	--	--	--	--	--	--	--	7,990

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
22...	.07	364	.02	E.1	E.10	E.3	<.16	2
22...	--	380	--	--	--	--	--	--
22...	--	3,780	--	--	--	--	--	--
APR								
15...	.10	61	.06	<.2	.25	.5	<.16	6
15...	--	62.0	--	--	--	--	--	--
15...	--	586	--	--	--	--	--	--
JUN								
17...	--	31.6	--	--	--	--	--	--
17...	--	774	--	--	--	--	--	--
17...	--	3,250	--	--	--	--	--	--
AUG								
12...	--	44.7	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	2,620	--	--	--	--	--	--
12...	--	4,300	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.
R -- Quality-control sample, surface water.

0209684980 CANE CREEK RESERVOIR AT DAM NEAR WHITE CROSS, NC—Continued



02096960 HAW RIVER NEAR BYNUM, NC

LOCATION.--Lat 35°45'55", long 79°08'09", Chatham County, Hydrologic Unit 03030002, on right bank 500 ft upstream from Pokeberry Creek, 0.9 mi south of Bynum, and 1.1 mi downstream of U.S. Highways 15 and 501.

DRAINAGE AREA.--1,275 mi^2.

PERIOD OF RECORD.--October 1973 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 283.31 ft above NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable regulation for short periods at low flow caused by power plant above station. Maximum discharge for period of record, from rating curve extended above 36,000 ft^3/s, on basis of slope-conveyance measurement of peak flow; maximum gage height, 21.76 ft, from floodmarks. Minimum discharge for period of record also occurred Sept. 27, 1983. Minimum discharge for each year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,860	295	1,270	532	1,330	5,170	1,880	645	252	172	554	123
2	2,550	285	1,130	531	1,050	2,770	1,890	1,060	295	193	409	115
3	1,750	286	968	531	1,020	1,590	1,940	716	572	174	301	106
4	1,120	310	760	531	2,690	1,290	1,430	586	836	168	189	101
5	717	e665	667	550	2,010	1,040	1,080	494	595	196	186	91
6	605	757	616	708	1,620	956	924	468	481	519	168	100
7	438	385	629	556	1,110	846	812	549	504	320	154	99
8	423	435	734	522	893	1,480	1,520	512	912	730	142	95
9	386	373	957	485	863	2,220	3,830	436	706	1,040	219	93
10	352	336	e8,860	465	819	1,470	1,940	416	1,060	361	1,100	89
11	336	338	e11,200	490	846	1,080	1,210	384	912	418	639	88
12	322	324	4,740	492	767	988	960	362	747	315	169	85
13	412	5,950	2,480	498	663	916	1,100	399	493	254	291	83
14	851	2,810	1,770	e8,300	692	798	1,380	397	477	1,540	270	68
15	735	1,390	1,320	e5,430	903	787	1,270	363	519	1,340	246	103
16	556	1,120	1,000	e2,420	980	910	963	346	392	857	230	64
17	290	876	846	e1,790	841	4,220	668	353	297	318	209	87
18	351	735	785	1,390	789	4,570	690	359	258	355	270	92
19	330	588	748	1,030	576	2,490	641	333	235	299	249	101
20	342	573	715	871	585	1,720	607	928	206	304	193	113
21	452	528	616	829	572	1,380	592	1,290	200	254	191	154
22	447	478	603	846	654	1,100	565	990	190	241	506	192
23	413	531	647	848	648	1,030	528	562	182	334	252	115
24	395	2,770	1,160	757	746	2,730	530	504	181	270	197	111
25	382	3,180	1,210	617	1,400	2,250	519	453	176	180	225	100
26	380	2,460	768	642	1,170	1,670	461	392	158	158	194	94
27	342	1,580	701	648	911	1,410	467	374	161	137	144	93
28	291	e2,770	604	610	2,380	6,230	448	291	187	147	145	115
29	308	e2,100	599	566	---	9,180	441	267	280	243	147	116
30	303	1,670	588	665	---	4,080	457	264	317	798	138	101
31	298	---	545	1,510	---	2,430	---	259	---	687	126	---
TOTAL	18,737	36,898	50,236	36,660	29,528	70,801	31,743	15,752	12,781	13,322	8,453	3,087
MEAN	604	1,230	1,621	1,183	1,055	2,284	1,058	508	426	430	273	103
MAX	2,550	5,950	11,200	8,300	2,690	9,180	3,830	1,290	1,060	1,540	1,100	192
MIN	290	285	545	465	572	787	441	259	158	137	126	64
CFSM	0.47	0.96	1.27	0.93	0.83	1.79	0.83	0.40	0.33	0.34	0.21	0.08
IN.	0.55	1.08	1.47	1.07	0.86	2.07	0.93	0.46	0.37	0.39	0.25	0.09

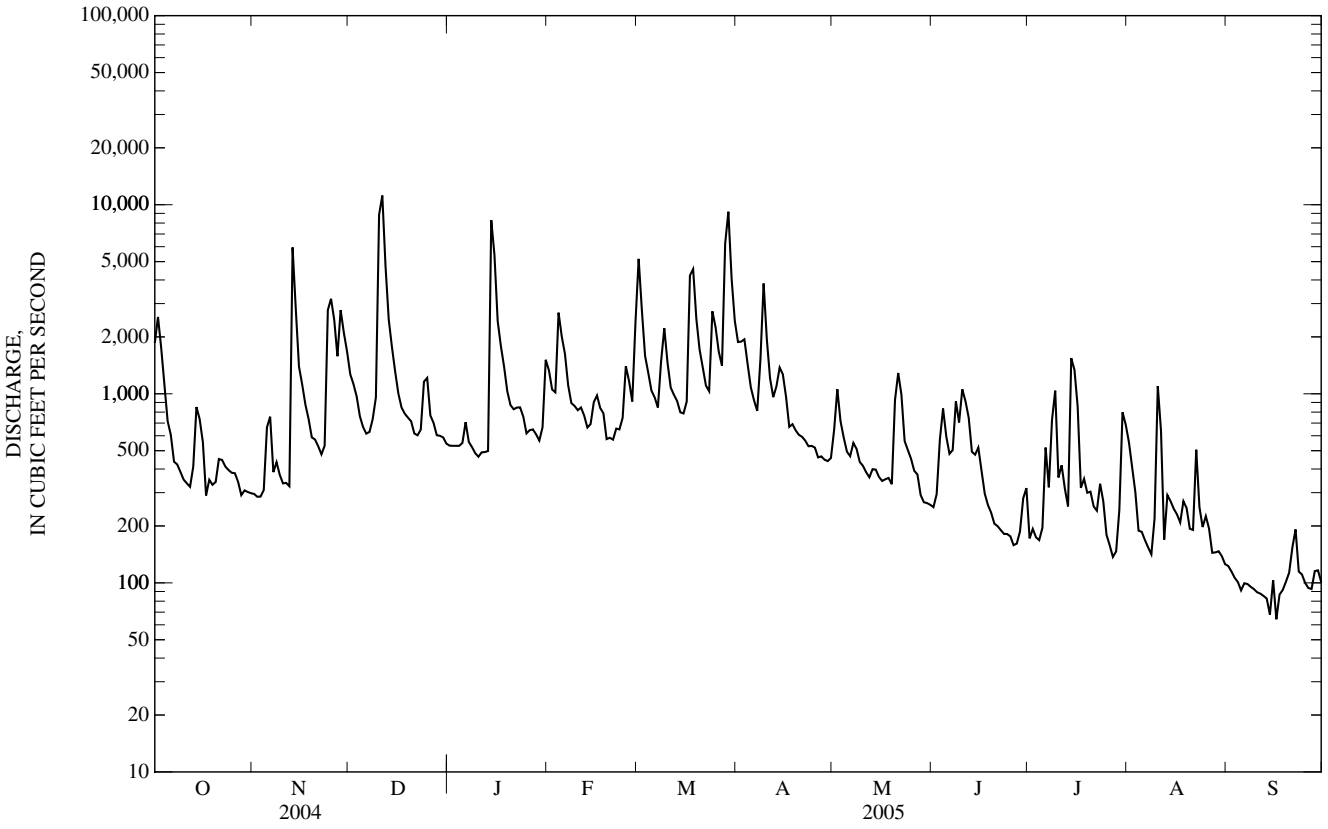
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2005, BY WATER YEAR (WY)

MEAN	687	754	1,160	2,075	2,085	2,521	1,737	1,121	902	787	603	949
MAX	2,906	2,888	2,929	5,895	5,465	6,110	5,363	3,936	4,632	4,477	2,422	4,904
(WY)	(1991)	(1986)	(2003)	(1978)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(2003)	(1996)
MIN	129	109	218	262	537	648	380	171	109	135	113	103
(WY)	(2002)	(2002)	(2002)	(1981)	(2002)	(1988)	(2002)	(2002)	(2002)	(1986)	(2002)	(2005)

02096960 HAW RIVER NEAR BYNUM, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1973 - 2005	
ANNUAL TOTAL	363,102		327,998			
ANNUAL MEAN	992		899		1,278	
HIGHEST ANNUAL MEAN					2,948	2003
LOWEST ANNUAL MEAN					370	2002
HIGHEST DAILY MEAN	11,200	Dec 11	11,200	Dec 11	58,000	Sep 6, 1996
LOWEST DAILY MEAN	174	Jul 17	64	Sep 16	0.18	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	223	Aug 7	83	Sep 11	46	Sep 7, 1983
MAXIMUM PEAK FLOW			NOT DETERMINED		76,700*	Sep 6, 1996
MAXIMUM PEAK STAGE			NOT DETERMINED		21.76*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			51	Sep 16	0.18*	Sep 10, 1983
ANNUAL RUNOFF (CFSM)	0.778		0.705		1.00	
ANNUAL RUNOFF (INCHES)	10.59		9.57		13.62	
10 PERCENT EXCEEDS	1,810		1,820		2,760	
50 PERCENT EXCEEDS	638		554		578	
90 PERCENT EXCEEDS	289		151		161	

* See REMARKS.
e Estimated.



0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC

LOCATION.--Lat 35°39'40", long 79°04'22", Chatham County, Hydrologic Unit 03030002, 0.5 mi above B. Everett Jordan Dam, and 1.4 mi southwest of Merry Oaks.

PERIOD OF RECORD.--Water years 1989 to current year. Prior to October 1993, published as Haw River at U.S. Highway 64 near Pittsboro (station 0209699980).

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
20...	1100	9	25	1.0	.50	755	11.0	124	9.0	161	20.8	33	8.00
20...	1105	9	--	2.0	--	755	10.9	124	9.0	161	20.8	--	--
20...	1110	9	--	4.0	--	755	8.6	94	8.3	233	19.2	--	--
APR													
20...	1415	9	50	1.0	.60	756	10.3	113	8.6	148	19.6	37	8.38
20...	1420	9	--	2.0	--	756	8.4	88	7.5	147	17.3	--	--
20...	1425	9	--	4.0	--	756	7.6	77	7.2	153	15.5	--	--
JUN													
24...	1500	9	38	1.0	.50	763	12.6	164	9.2	206	29.1	34	7.95
24...	1505	9	--	2.0	--	763	10.5	131	8.8	238	26.9	--	--
24...	1510	9	--	4.0	--	763	5.7	70	7.3	255	25.8	--	--
AUG													
08...	1000	9	40	1.0	.50	759	9.7	130	8.8	199	30.4	33	8.15
08...	1005	9	--	2.0	--	759	7.8	104	8.5	199	29.9	--	--
08...	1010	9	--	4.0	--	759	2.4	31	6.7	209	28.4	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
20...	3.05	3.90	16.4	35	43	13.7	.2	8.53	12.0	98	.97	E.006	<.016
20...	--	--	--	--	--	--	--	--	--	--	.99	.017	<.016
20...	--	--	--	--	--	--	--	--	--	--	.96	E.009	.020
APR													
20...	3.92	2.45	15.7	38	46	12.4	.1	8.91	12.2	103	.63	.020	.378
20...	--	--	--	--	--	--	--	--	--	--	.41	.024	.379
20...	--	--	--	--	--	--	--	--	--	--	.54	.077	.547
JUN													
24...	3.54	3.66	25.1	42	51	17.9	.3	8.27	17.3	130	1.0	.010	.164
24...	--	--	--	--	--	--	--	--	--	--	1.0	.012	.274
24...	--	--	--	--	--	--	--	--	--	--	.74	.089	.609
AUG													
08...	3.16	4.16	20.4	41	50	15.9	.2	6.65	15.3	110	1.1	<.050	E.069
08...	--	--	--	--	--	--	--	--	--	--	.98	<.050	.130
08...	--	--	--	--	--	--	--	--	--	--	.80	.109	.370

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

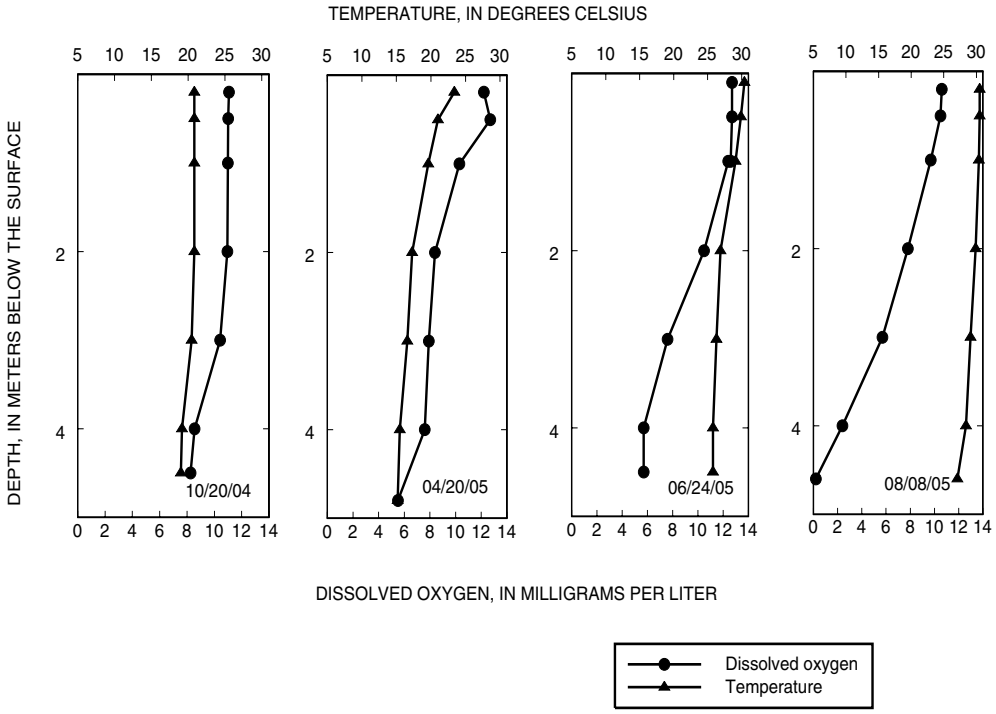
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
20...	E.001	E.003	.078	10.2	E12.8	<.1	72	<2	.04	<.8	.353	1.7	260
20...	E.001	E.003	.079	--	--	--	--	--	--	--	--	--	260
20...	E.001	<.006	.083	--	--	--	--	--	--	--	--	--	270
APR													
20...	.005	.007	.079	7.4	4.5	<.1	152	<2	E.03	E.4	.531	2.4	680
20...	.003	.007	.053	--	--	--	--	--	--	--	--	--	740
20...	.006	.008	.073	--	--	--	--	--	--	--	--	--	1,000
JUN													
24...	.005	<.030	.087	7.0	28.6	<.1	--	--	--	--	--	--	280
24...	.005	<.030	.111	--	--	--	--	--	--	--	--	--	420
24...	.006	.049	.148	--	--	--	--	--	--	--	--	--	820
AUG													
08...	E.007	<.030	.114	9.5	13.9	<.1	--	--	--	--	--	--	330
08...	E.006	<.030	.116	--	--	--	--	--	--	--	--	--	410
08...	.016	<.030	.117	--	--	--	--	--	--	--	--	--	700

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
20...	.23	66.4	E.01	2.6	.93	.8	<.16	5
20...	--	66.0	--	--	--	--	--	--
20...	--	71.2	--	--	--	--	--	--
APR								
20...	.44	80	.02	1.4	1.21	1.1	<.16	4
20...	--	59.3	--	--	--	--	--	--
20...	--	226	--	--	--	--	--	--
JUN								
24...	--	70.2	--	--	--	--	--	--
24...	--	93.6	--	--	--	--	--	--
24...	--	205	--	--	--	--	--	--
AUG								
08...	--	72.5	--	--	--	--	--	--
08...	--	90.6	--	--	--	--	--	--
08...	--	249	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0209719700 B. EVERETT JORDAN LAKE, HAW RIVER ARM, ABOVE B. EVERETT JORDAN DAM, NC—Continued



02097314 NEW HOPE CREEK NEAR BLANDS, NC

LOCATION.--Lat 35°53'06", long 78°57'55", Durham County, Hydrologic Unit 03030002, on right bank 15 ft downstream of bridge on Secondary Road 1107, 0.5 mi southwest of Blands, and 2 mi downstream of Third Fork Creek.

DRAINAGE AREA.--75.9 mi^2.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 215.19 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation at low flow. An average of 47.9 ft^3/s was diverted from the Neuse River Basin for Durham municipal water suppply; 16.2 ft^3/s was returned to the Cape Fear River Basin, and about 13.0 ft^3/s was returned to the Neuse River Basin. Maximum gage height for period of record occurred as a result of backwater from B. Everett Jordan Lake; maximum gage height unaffected by backwater from B. Everett Jordan Lake, 14.05 ft, Sept. 6, 1996. Minimum discharge for period of record not determined due to regulation. Minimum discharge unregulated, 4.2 ft^3/s, Apr. 28, 29, May 1, 2, and July 10, 1985. Minimum discharge for current water year due to regulation. Maximum discharge for period of record 12,700 ft^3/s, from rating curve extended above 3,500 ft^3/s by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	26	96	36	119	239	91	54	21	21	27	15
2	35	26	76	34	95	247	173	54	40	20	19	14
3	61	26	61	e27	86	176	337	37	92	20	17	13
4	84	36	51	32	145	154	145	33	104	20	16	13
5	43	60	45	33	152	69	e76	31	43	21	18	13
6	32	41	42	34	122	57	e74	53	31	20	16	13
7	27	33	47	34	95	52	99	54	27	21	14	13
8	25	29	50	33	78	131	394	35	200	185	13	13
9	23	28	45	33	67	329	402	31	124	79	131	14
10	21	27	124	32	60	274	e234	28	39	24	330	13
11	22	28	300	32	54	105	87	29	40	19	152	13
12	21	36	210	32	50	100	68	27	30	17	32	13
13	98	204	113	33	46	78	134	36	26	16	21	14
14	308	212	80	209	45	67	128	29	25	16	21	13
15	104	88	e62	781	51	60	77	29	25	17	20	14
16	50	51	e57	388	53	73	61	39	23	16	18	14
17	36	41	56	220	50	309	e47	32	21	15	47	14
18	23	37	47	183	47	401	50	26	20	53	33	e14
19	24	35	41	128	44	290	48	24	21	41	21	e15
20	28	33	e28	85	41	116	44	31	54	68	18	14
21	27	33	e27	70	41	80	42	57	24	32	16	69
22	27	32	e27	71	41	65	40	47	21	20	16	26
23	26	55	40	64	41	89	38	33	21	16	20	16
24	25	e83	108	56	55	123	38	27	21	15	28	14
25	28	e103	100	50	146	85	36	32	19	15	19	13
26	28	e63	e73	48	164	65	34	27	19	15	17	13
27	27	e80	e54	46	117	57	34	24	20	15	15	13
28	26	e88	e44	44	120	150	33	22	30	15	15	13
29	26	e139	42	42	---	406	31	21	29	60	15	13
30	26	e199	39	69	---	425	41	21	24	50	15	12
31	26	---	37	128	---	218	---	21	---	25	15	---
TOTAL	1,394	1,972	2,222	3,107	2,225	5,090	3,136	1,044	1,234	987	1,175	474
MEAN	45.0	65.7	71.7	100	79.5	164	105	33.7	41.1	31.8	37.9	15.8
MAX	308	212	300	781	164	425	402	57	200	185	330	69
MIN	21	26	27	27	41	52	31	21	19	15	13	12
CFSM	0.59	0.87	0.94	1.32	1.05	2.16	1.38	0.44	0.54	0.42	0.50	0.21
IN.	0.68	0.97	1.09	1.52	1.09	2.49	1.54	0.51	0.60	0.48	0.58	0.23

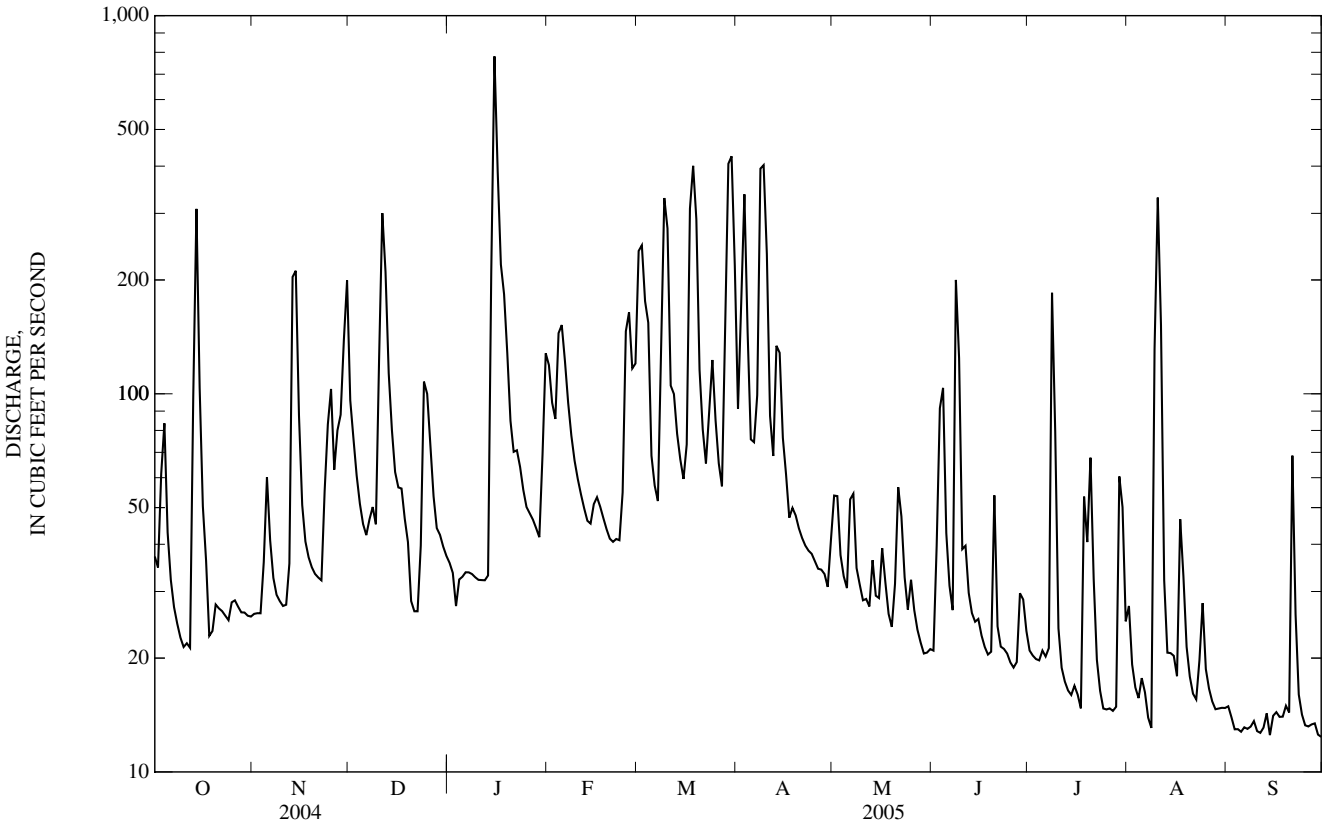
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	52.3	71.7	82.5	148	190	201	152	86.2	45.3	46.6	46.2	65.7
MAX	231	371	264	509	463	493	618	411	154	156	121	507
(WY)	(2003)	(1986)	(1984)	(1991)	(1998)	(1998)	(1987)	(1997)	(1995)	(1995)	(2004)	(1999)
MIN	12.8	16.1	17.0	31.6	58.2	42.0	13.5	18.1	13.1	12.9	14.5	10.8
(WY)	(1987)	(1985)	(1989)	(2001)	(2002)	(1985)	(1985)	(2002)	(2002)	(1993)	(1997)	(1984)

02097314 NEW HOPE CREEK NEAR BLANDS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	25,991		24,060			
ANNUAL MEAN	71.0		65.9		98.4	
HIGHEST ANNUAL MEAN					180	2003
LOWEST ANNUAL MEAN					38.3	2002
HIGHEST DAILY MEAN	652	Aug 31	781	Jan 15	6,300	Sep 6, 1996
LOWEST DAILY MEAN	15	May 22	12	Sep 30	0.39	Dec 30, 1988
ANNUAL SEVEN-DAY MINIMUM	17	May 16	13	Sep 24	4.1	Dec 20, 2001
MAXIMUM PEAK FLOW			923	Jan 15	12,700*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.55	Jan 15	18.96*	Apr 15, 2003
INSTANTANEOUS LOW FLOW			7.1	Sep 14	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	0.936		0.868		1.30	
ANNUAL RUNOFF (INCHES)	12.74		11.79		17.62	
10 PERCENT EXCEEDS	151		145		216	
50 PERCENT EXCEEDS	39		37		34	
90 PERCENT EXCEEDS	20		15		13	

* See REMARKS.
e Estimated.



0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC

LOCATION.--Lat 35°52'20", long 78°54'47", Durham County, Hydrologic Unit 03030002, on left bank at downstream side of bridge on Secondary Road 1100, 1.3 mi west of Genlee, and 1.6 mi downstream of Burdens Creek.

DRAINAGE AREA.--21.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1982 to January 1994, August 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 229.01 ft above NGVD of 1929, by levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. An average of 47.9 ft^3/s was diverted from the Neuse River basin for municipal water supply; 16.2 ft^3/s was returned to the Cape Fear River basin, of which 0.21 ft^3/s entered upstream from station as treated effluent. About 13.0 ft^3/s was returned to the Neuse River basin as treated effluent. Maximum discharge for period of record from rating curve extended above 2,000 ft^3/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e10	e7.2	e16	e8.7	e26	e56	17	17	6.4	8.2	46	4.5
2	e12	e7.2	e15	e8.6	e20	e40	86	13	14	12	10	4.2
3	e24	e8.3	e13	e8.8	e23	e26	120	9.3	12	11	7.2	3.8
4	e20	e11	e11	e8.7	e40	16	24	8.3	8.5	7.7	6.2	3.6
5	e9.4	e11	e10	e9.1	e31	14	16	7.9	6.8	7.7	5.6	3.8
6	e8.6	e8.9	e10	e9.9	e23	12	14	22	7.3	8.1	4.9	4.5
7	e7.7	e7.7	e12	e11	e18	12	16	16	7.3	12	4.5	4.3
8	e8.1	e7.4	e12	e9.9	e15	102	66	9.2	20	210	5.0	4.3
9	e7.2	e7.7	e16	e9.5	e14	114	173	8.5	13	20	214	4.3
10	e7.0	e7.5	e61	e9.4	e13	24	31	8.1	10	7.9	158	3.9
11	e7.1	e8.5	e69	e9.3	e13	18	19	7.9	9.5	6.8	17	4.0
12	e12	e23	e33	e9.3	e11	23	15	7.7	8.1	6.4	9.9	4.4
13	e62	e85	e18	e19	e11	16	33	7.8	8.5	6.3	22	5.4
14	e63	e35	e14	e157	e12	13	23	7.0	e8.2	5.9	65	5.9
15	e17	e14	e14	e169	e14	13	15	6.8	e7.8	5.4	11	6.7
16	e8.5	e8.9	e14	e53	e14	40	12	7.5	7.8	4.7	7.8	5.6
17	e5.8	e8.4	e13	e34	e13	282	11	7.3	6.9	6.2	20	5.0
18	e4.7	e8.6	e9.8	e28	e13	132	11	6.8	6.2	13	9.9	4.8
19	e6.4	e9.4	e8.7	e20	e11	29	11	6.7	6.6	9.8	7.5	5.4
20	e7.2	e8.3	e8.1	e16	e11	20	11	9.7	12	140	6.2	5.6
21	e6.7	e8.4	e8.3	e16	e11	15	11	10	8.3	13	5.5	18
22	e7.3	e11	e9.2	e15	e11	12	10	7.0	7.7	8.2	5.4	8.0
23	e6.7	e22	e16	e14	e13	44	9.5	7.1	8.2	6.2	6.1	6.3
24	e7.0	e29	e41	e13	e24	33	8.7	9.8	7.4	5.4	5.9	5.6
25	e7.9	e24	e22	e12	e54	18	8.8	8.4	6.5	5.8	5.7	5.3
26	e7.6	e17	e16	e12	e35	15	8.8	7.7	6.2	6.0	5.1	5.3
27	e7.3	e22	e12	e12	e25	13	8.6	6.0	7.0	5.3	4.6	5.0
28	e7.2	e26	e10	e12	e35	92	8.3	4.7	15	5.6	4.3	4.5
29	e7.7	e42	e9.3	e14	---	135	8.8	3.9	16	83	4.6	4.5
30	e7.1	e36	e9.3	e28	---	28	9.2	4.2	9.8	24	4.9	4.6
31	e7.1	---	e9.5	e38	---	18	---	5.7	---	18	4.9	---
TOTAL	387.3	530.4	540.2	794.2	554	1,425	815.7	269.0	279.0	689.6	694.7	161.1
MEAN	12.5	17.7	17.4	25.6	19.8	46.0	27.2	8.68	9.30	22.2	22.4	5.37
MAX	63	85	69	169	54	282	173	22	20	210	214	18
MIN	4.7	7.2	8.1	8.6	11	12	8.3	3.9	6.2	4.7	4.3	3.6
CFSM	0.59	0.84	0.83	1.21	0.94	2.18	1.29	0.41	0.44	1.05	1.06	0.25
IN.	0.68	0.94	0.95	1.40	0.98	2.51	1.44	0.47	0.49	1.22	1.22	0.28

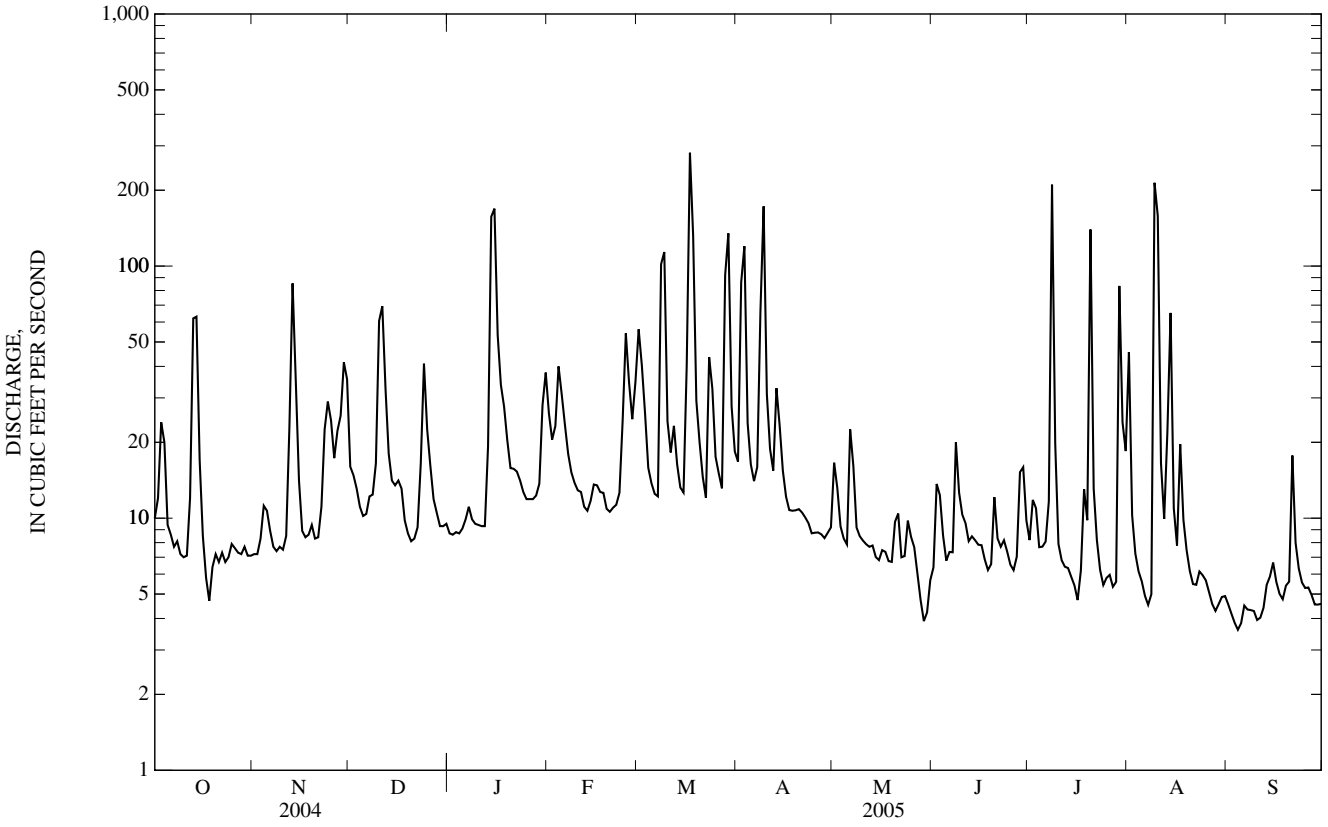
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,@ BY WATER YEAR (WY)

MEAN	20.6	24.6	32.0	51.4	54.8	58.0	35.2	18.7	12.5	15.1	17.4	31.5
MAX	83.8	82.7	86.7	134	111	128	84.5	59.1	44.4	48.6	66.7	247
(WY)	(2003)	(1993)	(2003)	(1998)	(1998)	(1998)	(1993)	(1990)	(1992)	(1989)	(1986)	(1999)
MIN	3.27	3.89	4.31	12.6	10.8	8.18	4.00	4.57	4.55	3.33	3.50	2.49
(WY)	(1986)	(1985)	(2002)	(1986)	(1991)	(1985)	(1985)	(2002)	(1987)	(1983)	(1983)	(1983)

0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005[@]	
ANNUAL TOTAL	7,565.1		7,140.2			
ANNUAL MEAN	20.7		19.6		31.2	
HIGHEST ANNUAL MEAN					49.1	1996
LOWEST ANNUAL MEAN					12.4	2002
HIGHEST DAILY MEAN	177	Aug 31	282	Mar 17	3,350	Sep 6, 1996
LOWEST DAILY MEAN	4.7	Oct 18	3.6	Sep 4	0.74	Jul 16, 1991
ANNUAL SEVEN-DAY MINIMUM	6.4	Oct 17	4.1	Sep 2	1.5	Oct 7, 1985
MAXIMUM PEAK FLOW			NOT DETERMINED		5,140*	Sep 6, 1996
MAXIMUM PEAK STAGE			NOT DETERMINED		13.92	Sep 6, 1996
INSTANTANEOUS LOW FLOW			2.3	Sep 7	0.76	Oct 7, 1985
ANNUAL RUNOFF (CFSM)	0.980		0.927		1.48	
ANNUAL RUNOFF (INCHES)	13.34		12.59		20.09	
10 PERCENT EXCEEDS	47		35		58	
50 PERCENT EXCEEDS	12		9.9		9.2	
90 PERCENT EXCEEDS	7.4		5.4		4.1	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated



0209741955 NORTHEAST CREEK AT SECONDARY ROAD 1100 NEAR GENLEE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1983-86, 1988-1995, 1999, 2001, 2004, 2005.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1982 to September 1985.
WATER TEMPERATURE: October 1982 to September 1985.

INSTRUMENTATION.--Water-quality monitor from October 1982 to September 1985.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

COOPERATION.--Sample for October 1994 and April 1995 were collected by the North Carolina Department of Environment, Health, and Natural Resources. A GC/FID scan for trace organic compounds was performed on these samples by the U.S. Geological Survey Water Quality Lab. Results may be obtained from the USGS Water Science Center, Raleigh, NC. Instantaneous discharge is not available for April and August 1994.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 872 microsiemens, Oct. 15, 1984; minimum, 29 microsiemens, Jan. 11, Apr. 5, 1984.
WATER TEMPERATURE: Maximum, 29.0°C, Aug. 23, 1983; minimum, 0.0°C, Dec. 28, 1983, Jan. 2, 22, 23, 1984.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
JUL 08...	0930	9	175	757	4.3	51	6.0	110	24.1	24	6.29	2.01	3.72

Date	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)
JUL 08...	9.88	33	40	9.66	.1	4.54	7.4	83	.96	.050	.308	.017	.026

Date	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)	Lead, water, unfltrd recover-able, ug/L (01051)	Manganese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molybdenum, water, unfltrd recover-able, ug/L (01062)
JUL 08...	.20	14.3	2,250	<2	.04	1.4	1.33	6.8	1,870	3.10	205	E.01	2.3

Date	Nickel, water, unfltrd recover-able, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)	Suspended sediment concentration mg/L (80154)
JUL 08...	2.83	E.4	<.16	18	91

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

02097464 MORGAN CREEK NEAR WHITE CROSS, NC

LOCATION.--Lat 35°55'25", long 79°06'54", Orange County, Hydrologic Unit 03020002, at downstream side of culvert on State Highway 54, 2 mi upstream from University Lake, and 3.5 mi east of White Cross.

DRAINAGE AREA.--8.35 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 420 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those above 100 ft^3/s and those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 2,700 ft^3/s, by logarithmic plotting. No flow occurs at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.9	e1.7	3.6	1.9	5.0	22	11	e3.0	0.70	0.27	0.44	0.04
2	4.0	e1.7	3.1	1.7	3.9	11	14	e2.6	1.7	0.23	0.23	0.14
3	6.3	e1.9	2.8	1.8	8.9	7.1	11	e2.1	3.6	0.22	0.23	0.09
4	3.2	e2.9	2.4	1.8	14	5.5	8.1	e1.8	1.9	0.42	0.22	0.05
5	2.4	e2.7	2.1	1.8	7.3	5.1	7.1	e1.6	1.2	0.51	0.22	0.02
6	1.9	e2.0	2.1	1.8	4.9	4.5	6.4	e3.9	0.95	0.46	0.20	0.01
7	1.6	e1.8	2.6	1.7	4.6	4.1	6.1	e3.1	0.82	0.79	0.17	0.00
8	1.6	e1.7	2.3	1.7	4.1	36	8.9	e2.2	0.86	1.1	0.16	0.01
9	1.6	e1.7	2.1	1.7	3.7	21	13	e1.7	1.2	0.35	3.3	0.01
10	1.6	e1.9	15	1.6	4.1	12	7.1	e1.6	0.91	0.25	0.39	0.00
11	1.5	e4.6	8.6	1.7	e3.4	9.2	5.9	e1.9	0.77	0.22	0.23	0.00
12	1.4	e12	5.4	2.1	e2.2	8.8	5.4	e3.0	0.58	0.23	0.18	0.00
13	8.0	9.5	3.6	2.7	e1.4	7.2	9.1	e3.2	0.62	0.25	0.16	0.00
14	3.9	2.9	2.7	89	e4.0	6.5	8.6	e2.0	0.55	0.26	0.19	0.00
15	2.7	2.0	2.4	23	e6.4	6.4	6.0	e2.6	0.52	0.30	0.17	0.00
16	2.5	1.8	2.1	13	e4.0	14	5.0	e2.7	0.44	0.24	0.16	0.00
17	1.7	1.7	2.1	7.3	e2.5	40	5.5	e1.7	0.37	0.19	0.53	0.00
18	1.5	1.7	2.1	4.9	e2.5	22	4.6	e2.5	0.35	0.16	0.18	0.00
19	1.6	2.2	2.0	4.5	e2.0	14	4.5	e3.2	0.34	0.15	0.17	0.00
20	e1.7	2.1	2.0	4.1	e1.6	10	e4.0	e5.0	0.39	0.49	0.21	0.00
21	e1.6	1.9	1.9	4.1	e5.1	8.3	e2.9	e4.9	0.34	0.37	0.19	0.00
22	e1.6	1.7	1.8	3.6	e3.1	7.3	e2.8	e3.3	0.35	0.28	0.15	0.00
23	e1.6	8.9	2.8	3.4	e5.8	11	e3.6	e2.5	0.34	0.21	0.15	0.00
24	e1.7	11	3.0	3.1	e16	11	e2.5	e2.0	0.35	0.16	0.14	0.00
25	e1.7	5.2	2.3	2.9	e13	8.1	e3.5	e1.6	0.33	0.15	0.11	0.00
26	e1.8	3.1	2.1	2.9	e7.1	7.0	e3.5	e1.9	0.34	0.12	0.09	0.00
27	e1.7	2.6	1.9	2.6	e3.1	6.6	e3.8	e1.1	0.35	e0.09	0.08	0.00
28	e1.6	20	1.8	2.1	45	75	e3.2	e1.0	0.64	e0.15	0.07	0.00
29	e1.6	6.7	1.8	2.2	---	34	e2.6	e0.97	0.36	0.78	0.06	0.00
30	e1.6	4.2	1.8	7.7	---	19	e2.0	e1.1	0.31	0.40	0.05	0.00
31	e1.6	---	1.8	8.4	---	13	---	e1.7	---	0.63	0.05	---
TOTAL	71.7	125.8	94.1	212.8	188.7	466.7	181.7	73.47	22.48	10.43	8.88	0.37
MEAN	2.31	4.19	3.04	6.86	6.74	15.1	6.06	2.37	0.75	0.34	0.29	0.01
MAX	8.0	20	15	89	45	75	14	5.0	3.6	1.1	3.3	0.14
MIN	1.4	1.7	1.8	1.6	1.4	4.1	2.0	0.97	0.31	0.09	0.05	0.00
CFSM	0.28	0.51	0.37	0.83	0.81	1.82	0.73	0.29	0.09	0.04	0.03	0.00
IN.	0.32	0.57	0.42	0.96	0.85	2.10	0.82	0.33	0.10	0.05	0.04	0.00

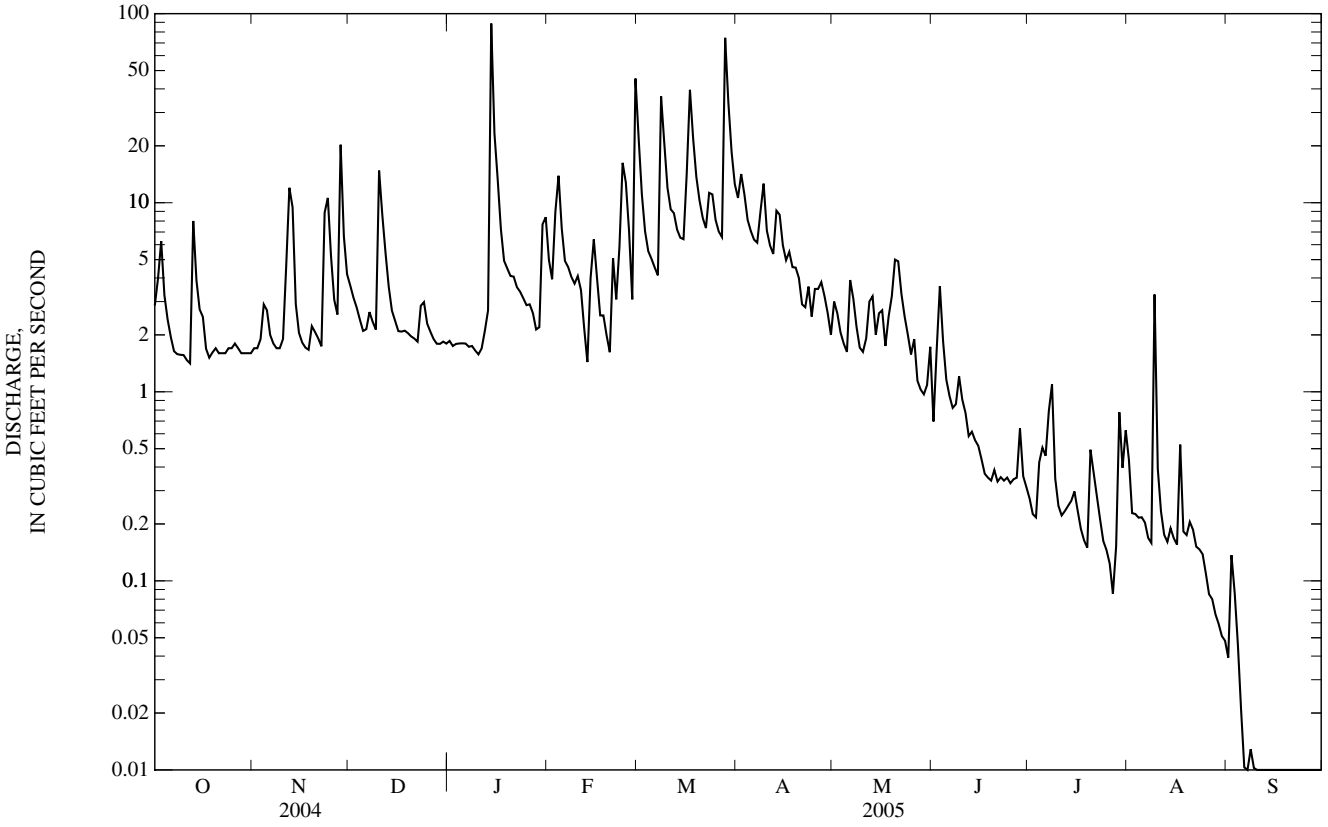
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	3.63	4.23	5.05	11.2	13.3	18.5	11.0	6.33	4.34	2.78	2.69	5.81
MAX	13.1	15.3	15.2	33.4	39.7	53.0	38.6	30.1	19.9	12.3	18.7	40.4
(WY)	(1990)	(1996)	(2003)	(1998)	(1998)	(1998)	(2003)	(1989)	(1995)	(2000)	(1995)	(1999)
MIN	0.13	0.13	0.28	2.02	3.63	4.11	1.95	0.72	0.03	0.04	0.01	0.01
(WY)	(2002)	(1999)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005	
ANNUAL TOTAL	1,374.30		1,457.13			
ANNUAL MEAN	3.75		3.99		7.21	
HIGHEST ANNUAL MEAN					12.5	1998
LOWEST ANNUAL MEAN					1.46	2002
HIGHEST DAILY MEAN	64	Sep 8	89	Jan 14	737	Sep 6, 1996
LOWEST DAILY MEAN	0.15	Jul 17	0.00	Sep 7	0.00	Jun 16, 2002
ANNUAL SEVEN-DAY MINIMUM	0.24	Jul 15	0.00	Sep 10	0.00	Aug 8, 2002
MAXIMUM PEAK FLOW			276	Jan 14	3,100*	Aug 27, 1995
MAXIMUM PEAK STAGE			5.86	Jan 14	11.20	Aug 27, 1995
INSTANTANEOUS LOW FLOW			0.00	Sep 11	0.00	Jun 16, 2002
ANNUAL RUNOFF (CFSM)	0.453		0.482		0.870	
ANNUAL RUNOFF (INCHES)	6.17		6.55		11.82	
10 PERCENT EXCEEDS	7.6		8.9		14	
50 PERCENT EXCEEDS	2.1		1.9		2.6	
90 PERCENT EXCEEDS	0.39		0.10		0.23	

* See REMARKS.
e Estimated.



02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1989 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 2002 to November 2003.

INSTRUMENTATION.--Logging pressure transducer with water temperature probe.

REMARKS.--Station operated as part of a six county regional surface-water quality assessment and the NAWQA Urban Land Use Gradient study.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 27.6°C, Aug. 30, 2003; minimum recorded, 0.0°C, Jan. 19, 23-26, 28, 2003.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT													
18...	1245	9	1.6	50	752	9.2	87	6.9	120	12.4	37	9.43	3.32
DEC													
09...	1115	9	2.1	35	752	8.8	79	7.4	108	9.9	38	9.56	3.37
FEB													
08...	1145	9	4.1	62	755	11.2	94	7.2	99	7.6	32	8.21	2.90
APR													
13...	1345	9	9.0	38	746	9.6	92	7.3	89	12.2	33	8.53	2.94
JUN													
16...	1215	9	.44	50	745	5.5	64	6.7	139	22.1	48	12.6	4.00
AUG													
10...	1100	9	.36	50	759	6.0	69	6.7	108	22.8	35	9.10	3.00

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
18...	3.33	6.07	36	43	8.12	E.1	14.3	4.3	86	--	.35	.012	.464
DEC													
09...	2.02	6.11	34	41	7.96	E.1	13.5	4.6	73	--	.26	E.005	.575
FEB													
08...	1.71	6.39	35	43	7.74	E.1	11.8	5.6	67	--	.27	E.005	.550
APR													
13...	1.45	5.72	29	35	6.67	E.1	9.58	3.6	61	--	.35	.011	.300
JUN													
16...	2.74	6.50	42	52	6.81	E.1	18.6	2.4	92	.39	.41	.063	.737
AUG													
10...	4.15	4.38	35	42	4.90	E.1	12.3	4.0	83	--	.67	.064	.564

Date	Nitrite water, fltrd, mg/L as N (00613)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, unfltrd recoverable, ug/L (01055)
OCT													
18...	E.001	.023	.061	6.1	40	<2	<.04	<.8	.242	1.2	690	.13	42
DEC													
09...	.005	.017	.050	3.7	--	--	--	--	--	--	--	--	--
FEB													
08...	.005	E.005	.046	5.3	--	--	--	--	--	--	--	--	--
APR													
13...	.003	E.004	.055	5.4	122	<2	<.04	<.8	.406	.8	1,140	.33	66
JUN													
16...	.006	.040	.138	5.7	--	--	--	--	--	--	--	--	--
AUG													
10...	.011	.030	.150	9.8	--	--	--	--	--	--	--	--	--

02097464 MORGAN CREEK NEAR WHITE CROSS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb- denum, water, unfltrd recover -able, ug/L (01062)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen- ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)	Sus- pended sedi- ment concen- tration mg/L (80154)
OCT							
18...	<.01	E.1	.56	.5	<.16	2	3
DEC							
09...	--	--	--	--	--	--	3
FEB							
08...	--	--	--	--	--	--	6
APR							
13...	<.01	E.1	.42	E.4	<.16	E2	11
JUN							
16...	--	--	--	--	--	--	7
AUG							
10...	--	--	--	--	--	--	19

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'49", long 79°05'32", Orange County, Hydrologic Unit 03030002, at Orange Water and Sewage Authority intakes, and 1.8 mi southwest of Chapel Hill.

DRAINAGE AREA.--30 mi^2.

PERIOD OF RECORD.--Water years 1989 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
22...	1130	9	20	1.0	.60	759	4.0	43	6.9	107	18.3	32	8.51
22...	1135	9	--	4.0	--	759	.2	2	7.0	114	17.8	--	--
22...	1140	9	--	7.0	--	759	.1	1	8.2	494	14.1	--	--
APR													
15...	1115	9	40	1.0	.80	755	8.8	88	7.4	85	14.8	28	7.15
15...	1120	9	--	4.0	--	755	4.7	46	6.7	85	13.6	--	--
15...	1125	9	--	8.0	--	755	.3	3	6.8	108	9.2	--	--
JUN													
17...	1130	9	30	1.0	.70	746	6.9	90	7.5	114	27.9	31	7.83
17...	1135	9	--	4.0	--	746	.1	1	6.7	137	17.0	--	--
17...	1140	9	--	8.0	--	746	.3	3	7.0	252	12.7	--	--
AUG													
12...	0915	9	20	1.0	.40	753	7.7	102	8.4	104	29.1	30	7.34
12...	0916	R	--	1.0	.40	753	7.7	102	8.4	104	29.1	--	--
12...	0917	R	--	1.0	.40	753	7.7	102	8.4	104	29.1	--	--
12...	0918	R	--	1.0	.40	753	7.7	102	8.4	104	29.1	--	--
12...	0919	R	--	1.0	.40	753	7.7	102	8.4	104	29.1	--	--
12...	0920	9	--	3.0	--	753	.1	2	6.7	118	25.9	--	--
12...	0925	9	--	7.0	--	753	.2	2	7.3	304	12.8	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
22...	2.71	2.82	6.23	32	39	6.51	.1	15.5	5.4	86	.62	.046	<.016
22...	--	--	--	--	--	--	--	--	--	--	.77	.160	<.016
22...	--	--	--	--	--	--	--	--	--	--	12	10.3	.030
APR													
15...	2.54	1.72	6.24	25	31	6.29	<.1	13.4	7.1	69	.53	E.009	.020
15...	--	--	--	--	--	--	--	--	--	--	.51	E.006	.030
15...	--	--	--	--	--	--	--	--	--	--	.86	.413	.109
JUN													
17...	2.68	1.89	7.03	33	40	6.75	E.1	15.3	5.6	72	.56	<.010	<.016
17...	--	--	--	--	--	--	--	--	--	--	.50	.047	<.016
17...	--	--	--	--	--	--	--	--	--	--	2.9	1.91	<.016
AUG													
12...	2.77	2.13	7.03	24	29	6.47	E.1	15.3	4.7	77	.82	E.006	<.016
12...	--	--	--	24	29	--	--	--	--	--	--	--	--
12...	--	--	--	24	29	--	--	--	--	--	--	--	--
12...	--	--	--	24	29	--	--	--	--	--	--	--	--
12...	--	--	--	24	29	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	.94	.162	<.016
12...	--	--	--	--	--	--	--	--	--	--	6.1	4.21	<.016

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

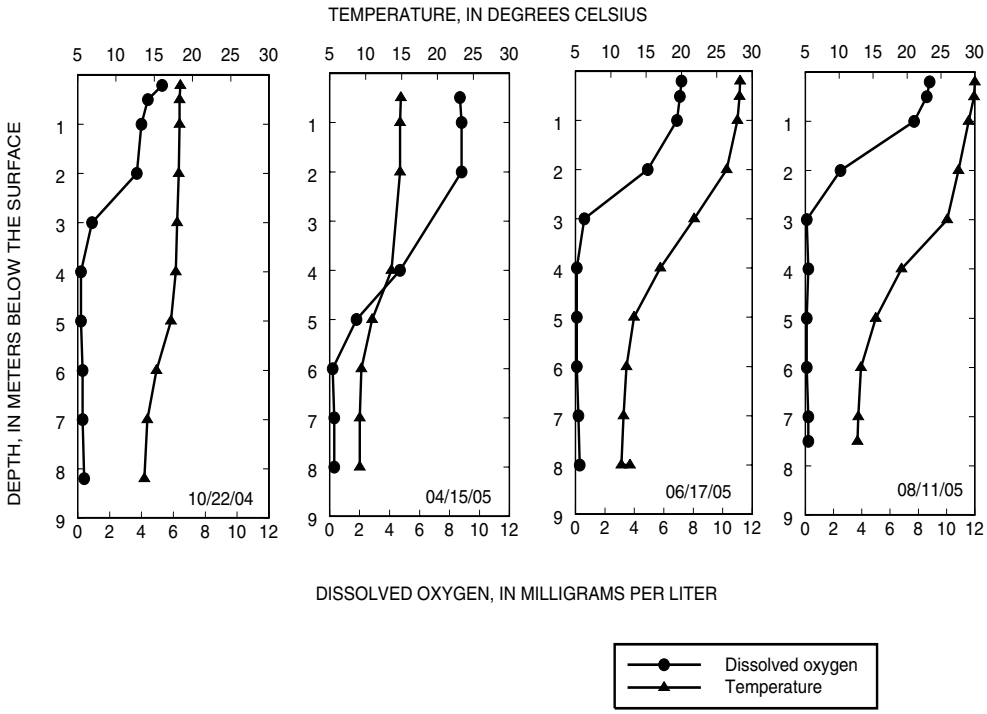
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
22...	E.001	<.006	.033	9.7	E11.3	E.6	18	<2	<.04	<.8	.190	.8	530
22...	E.001	<.006	.043	--	--	--	--	--	--	--	--	--	920
22...	.003	<.006	.133	--	--	--	--	--	--	--	--	--	71,100
APR													
15...	.002	<.006	.039	7.8	3.2	<.1	62	<2	<.04	<.8	.181	1.7	450
15...	.002	<.006	.037	--	--	--	--	--	--	--	--	--	460
15...	.006	<.006	.067	--	--	--	--	--	--	--	--	--	1,320
JUN													
17...	<.002	<.006	.038	6.8	3.4	<.1	--	--	--	--	--	--	290
17...	<.002	<.006	.042	--	--	--	--	--	--	--	--	--	280
17...	.009	.111	.14	--	--	--	--	--	--	--	--	--	15,300
AUG													
12...	<.004	<.012	.019	10.7	E6.4	<.1	--	--	--	--	--	--	150
12...	--	--	--	--	E5.8	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	E6.0	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	E7.8	<.1	--	--	--	--	--	--	--
12...	--	--	--	--	E11.0	<.1	--	--	--	--	--	--	--
12...	<.002	<.012	.116	--	--	--	--	--	--	--	--	--	480
12...	<.004	.056	.169	--	--	--	--	--	--	--	--	--	34,500

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
22...	.09	332	E.01	.3	.24	<.4	<.16	E2
22...	--	908	--	--	--	--	--	--
22...	--	10,300	--	--	--	--	--	--
APR								
15...	.17	91	.01	E.2	.36	.5	<.16	E2
15...	--	96.9	--	--	--	--	--	--
15...	--	1,360	--	--	--	--	--	--
JUN								
17...	--	118	--	--	--	--	--	--
17...	--	884	--	--	--	--	--	--
17...	--	5,000	--	--	--	--	--	--
AUG								
12...	--	81.3	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--
12...	--	1,810	--	--	--	--	--	--
12...	--	7,360	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.
R -- Quality-control sample, surface water.

0209749990 UNIVERSITY LAKE AT INTAKES NEAR CHAPEL HILL, NC—Continued



02097517 MORGAN CREEK NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°53'36", long 79°01'11", Orange County, Hydrologic Unit 03030002, on left bank 2.5 mi southeast of Chapel Hill, and 3.8 mi downstream of U.S. Highway 501.

DRAINAGE AREA.--41.0 mi^2

PERIOD OF RECORD.--November 1982 to current year.

GAGE.--Water-stage recorder. Datum of gage is 239.02 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. The City of Chapel Hill diverted an average of 13.4 ft^3/s for water supply upstream of station, and an average of 12.5 ft^3/s was returned as treated effluent upstream of station. Considerable diurnal fluctuation and occasional slight regulation caused by small reservoir and treated effluent outfall upstream from station. Maximum discharge for period of record from rating curve extended above 1,700 ft^3/s, by logarithmic plotting; maximum gage height, 16.18 ft, from floodmark.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	44	12	39	115	55	32	13	11	14	10
2	35	20	35	12	32	63	89	23	32	22	12	10
3	30	22	31	13	57	48	70	20	32	10	12	9.4
4	33	31	28	13	69	41	50	18	17	18	22	8.9
5	24	29	26	13	45	37	43	18	18	11	16	9.3
6	16	22	25	12	36	35	42	29	17	10	12	10
7	13	21	33	12	31	32	53	21	15	67	9.9	9.8
8	12	20	29	12	31	134	54	19	18	67	10	10
9	12	20	25	12	31	97	59	17	18	13	196	9.5
10	10	19	105	12	32	58	45	16	16	11	22	9.7
11	12	18	63	13	28	49	38	16	12	10	13	9.8
12	12	61	44	13	25	44	36	18	12	12	12	11
13	76	60	37	33	24	38	54	18	12	12	21	17
14	43	36	28	e568	28	37	45	16	12	11	13	16
15	32	28	22	e150	33	33	37	17	11	12	10	12
16	24	24	20	e100	29	67	31	18	10	11	10	11
17	19	23	19	e66	25	231	29	15	11	9.5	27	12
18	19	22	17	e50	25	117	28	16	9.1	10	11	12
19	20	22	14	38	22	70	25	17	11	15	10	11
20	21	22	16	36	20	55	24	27	11	101	18	16
21	19	21	14	36	24	47	21	29	9.8	15	13	25
22	20	21	13	32	22	41	20	21	11	12	9.9	14
23	19	63	30	32	24	51	22	18	11	9.6	15	12
24	21	66	22	24	51	46	20	15	8.8	9.2	10	12
25	22	45	16	24	46	39	18	14	8.9	9.9	9.9	11
26	25	31	15	24	36	36	18	15	8.5	9.3	9.7	10
27	23	30	15	24	32	34	18	13	10	9.5	8.9	10
28	20	141	14	21	166	342	18	13	11	15	9.5	10
29	18	64	13	21	---	182	20	13	12	35	10	10
30	19	52	12	58	---	88	21	14	11	14	9.6	9.0
31	19	---	12	49	---	65	---	15	---	16	10	---
TOTAL	706	1,075	837	1,535	1,063	2,372	1,103	571	409.1	598.0	586.4	347.4
MEAN	22.8	35.8	27.0	49.5	38.0	76.5	36.8	18.4	13.6	19.3	18.9	11.6
MAX	76	141	105	568	166	342	89	32	32	101	196	25
MIN	10	18	12	12	20	32	18	13	8.5	9.2	8.9	8.9
CFSM	0.56	0.87	0.66	1.21	0.93	1.87	0.90	0.45	0.33	0.47	0.46	0.28
IN.	0.64	0.98	0.76	1.39	0.96	2.15	1.00	0.52	0.37	0.54	0.53	0.32

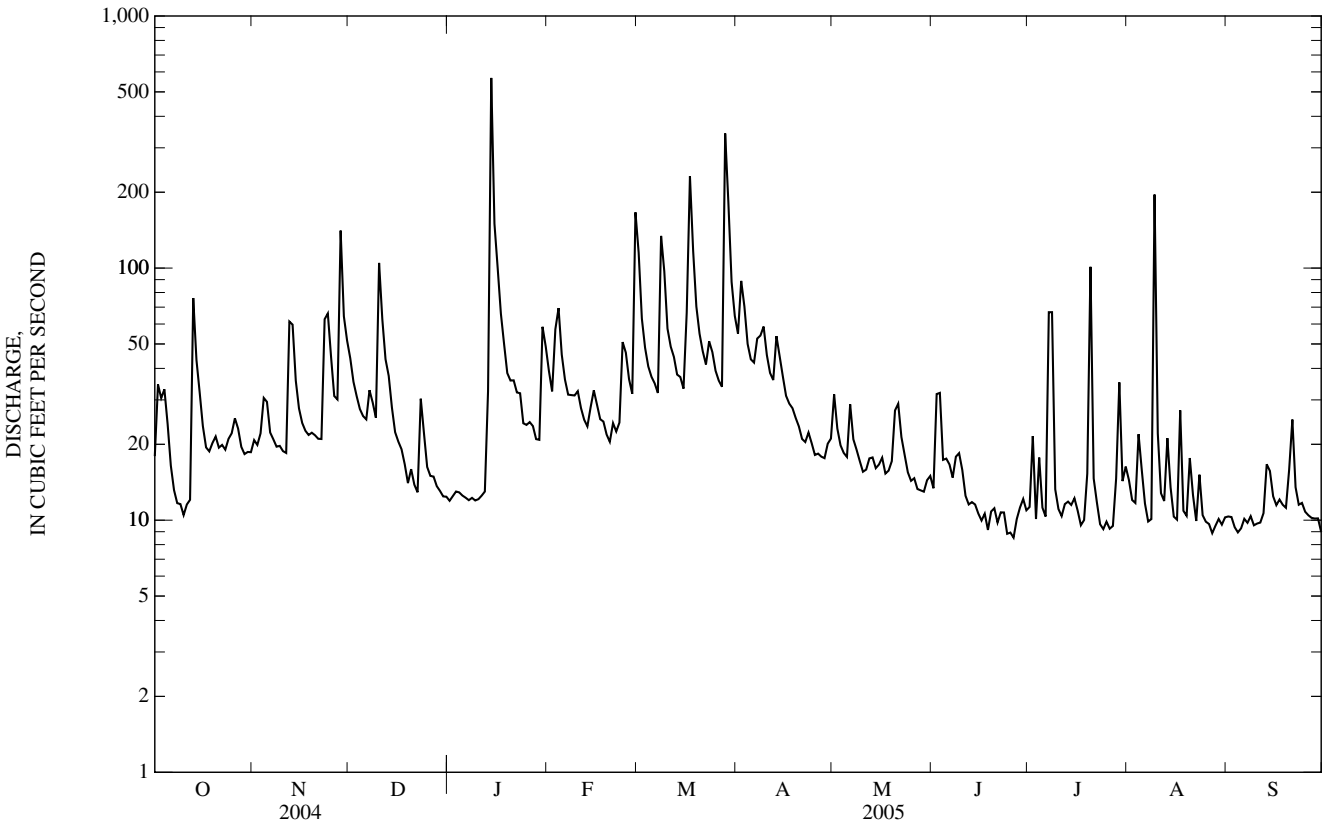
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005, BY WATER YEAR (WY)

MEAN	25.4	34.5	37.0	64.3	75.4	94.9	59.0	32.6	25.2	21.9	22.9	33.3
MAX	54.9	141	105	184	206	226	194	91.2	84.9	53.8	65.0	272
(WY)	(2003)	(1986)	(1984)	(1998)	(1998)	(1993)	(2003)	(1990)	(1992)	(2003)	(1985)	(1999)
MIN	12.9	10.5	12.9	13.3	17.2	18.0	17.5	14.5	11.1	8.93	12.1	8.77
(WY)	(1999)	(1983)	(1989)	(2004)	(1991)	(1988)	(1986)	(1986)	(1986)	(1988)	(1988)	(1983)

02097517 MORGAN CREEK NEAR CHAPEL HILL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005	
ANNUAL TOTAL	10,750.1		11,202.9			
ANNUAL MEAN	29.4		30.7		43.1	
HIGHEST ANNUAL MEAN					80.2	2003
LOWEST ANNUAL MEAN					21.7	1988
HIGHEST DAILY MEAN	377	Aug 30	568	Jan 14	2,600	Sep 6, 1996
LOWEST DAILY MEAN	8.7	Aug 11	8.5	Jun 26	0.60	Nov 26, 1982
ANNUAL SEVEN-DAY MINIMUM	11	Jul 5	9.6	Sep 3	2.1	Nov 22, 1982
MAXIMUM PEAK FLOW			1,060	Aug 9	4210*	Sep 6, 1996
MAXIMUM PEAK STAGE			9.82	Aug 9	16.18*	Sep 6, 1996
INSTANTANEOUS LOW FLOW			2.7	Jun 19	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	0.716		0.749		1.05	
ANNUAL RUNOFF (INCHES)	9.75		10.16		14.28	
10 PERCENT EXCEEDS	49		57		78	
50 PERCENT EXCEEDS	21		20		20	
90 PERCENT EXCEEDS	13		10		12	

* See REMARKS.
e Estimated.



0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC

LOCATION.--Lat 35°47'56", long 79°00'21", Chatham County, Hydrologic Unit 03030002, .02 mi above Secondary Road 1008, and 0.2 mi east of Farrington.

PERIOD OF RECORD.--Water years 1992 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
19...	1145	9	20	1.0	.50	755	8.1	89	7.8	156	19.7	33	8.37
19...	1150	9	--	2.0	--	755	7.4	81	7.4	157	19.4	--	--
19...	1155	9	--	4.0	--	755	6.4	69	7.2	162	18.9	--	--
APR													
21...	0900	9	60	1.0	.50	755	8.4	87	7.5	146	16.6	34	8.56
21...	0905	9	--	2.0	--	755	7.6	77	6.9	145	15.3	--	--
21...	0910	9	--	4.0	--	755	6.4	63	6.8	145	14.6	--	--
JUN													
24...	1245	9	15	1.0	.10	763	11.7	151	9.3	203	28.6	40	10.2
24...	1250	9	--	2.0	--	763	7.8	97	8.6	193	26.9	--	--
24...	1255	9	--	4.0	--	763	.8	9	6.8	180	24.9	--	--
AUG													
08...	1215	9	40	1.0	.40	759	8.1	108	8.5	198	29.9	39	10.2
08...	1220	9	--	2.0	--	759	5.8	76	7.5	197	29.4	--	--
08...	1225	9	--	4.0	--	759	3.5	46	6.9	196	28.9	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
19...	2.91	3.65	16.0	34	41	14.4	.2	5.88	10.7	94	1.0	E.009	.023
19...	--	--	--	--	--	--	--	--	--	--	1.1	.030	.034
19...	--	--	--	--	--	--	--	--	--	--	1.1	.040	.037
APR													
21...	3.05	2.87	14.2	30	36	13.8	.2	3.99	11.1	91	.91	.035	.096
21...	--	--	--	--	--	--	--	--	--	--	1.0	.074	.167
21...	--	--	--	--	--	--	--	--	--	--	1.0	.152	.210
JUN													
24...	3.44	3.80	19.2	40	44	18.7	.2	2.88	13.5	131	1.3	<.010	<.016
24...	--	--	--	--	--	--	--	--	--	--	1.0	<.010	<.016
24...	--	--	--	--	--	--	--	--	--	--	.75	<.010	<.016
AUG													
08...	3.30	4.15	18.5	42	52	18.5	.3	4.29	13.2	119	1.0	<.050	<.080
08...	--	--	--	--	--	--	--	--	--	--	1.1	<.050	<.080
08...	--	--	--	--	--	--	--	--	--	--	1.2	.084	<.080

0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

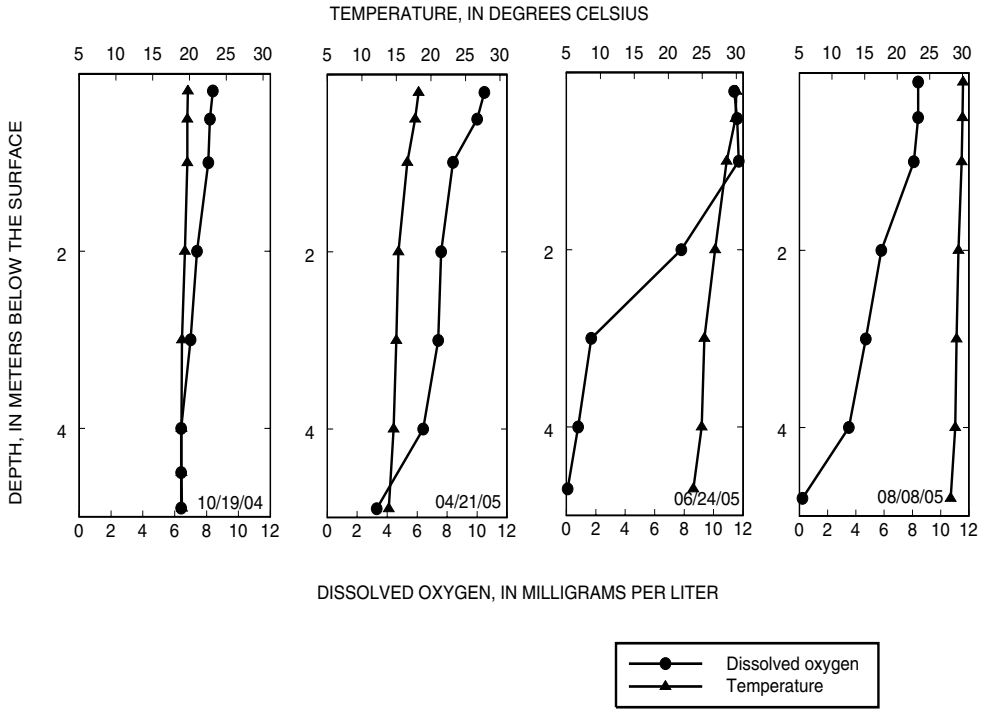
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
19...	.002	<.006	.065	12.3	E10.4	E.6	99	<2	<.04	<.8	.242	1.2	220
19...	.003	<.006	.069	--	--	--	--	--	--	--	--	--	250
19...	.003	E.005	.073	--	--	--	--	--	--	--	--	--	250
APR													
21...	.007	<.006	.079	12.2	11.7	<.1	263	<2	<.04	E.8	.408	2.0	600
21...	.008	<.006	.091	--	--	--	--	--	--	--	--	--	630
21...	.009	<.006	.095	--	--	--	--	--	--	--	--	--	800
JUN													
24...	<.002	<.030	.103	11.9	28.6	<.1	--	--	--	--	--	--	440
24...	<.002	<.030	.089	--	--	--	--	--	--	--	--	--	280
24...	<.002	<.02	.066	--	--	--	--	--	--	--	--	--	310
AUG													
08...	<.010	<.030	.083	12.1	33.5	<.1	--	--	--	--	--	--	260
08...	<.010	<.02	.081	--	--	--	--	--	--	--	--	--	230
08...	<.010	<.04	.081	--	--	--	--	--	--	--	--	--	270

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
19...	.31	127	.01	3.3	.77	.4	<.16	4
19...	--	130	--	--	--	--	--	--
19...	--	131	--	--	--	--	--	--
APR								
21...	.82	141	.06	2.0	1.00	.6	<.16	6
21...	--	157	--	--	--	--	--	--
21...	--	212	--	--	--	--	--	--
JUN								
24...	--	186	--	--	--	--	--	--
24...	--	141	--	--	--	--	--	--
24...	--	308	--	--	--	--	--	--
AUG								
08...	--	196	--	--	--	--	--	--
08...	--	197	--	--	--	--	--	--
08...	--	458	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0209768310 B. EVERETT JORDAN LAKE AT BUOY 12 AT FARRINGTON, NC—Continued



0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC

LOCATION.--Lat 35°45'37", long 78°55'13", Wake County, Hydrologic Unit 03030002, on left bank on Secondary Road 1603, 1.8 mi south-southwest of Green Level.

DRAINAGE AREA.--11.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year. October 1999 to September 2003 published as "0209782520, White Oak Creek at Green Level, NC".

GAGE.--Water-stage recorder. Elevation of gage is 245 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs at times most years.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.4	e1.4	e7.3	e2.8	8.9	49	16	6.9	0.31	0.06	4.5	0.12
2	4.8	e1.3	e5.5	e3.1	7.5	20	74	4.7	1.1	0.04	1.8	0.10
3	6.4	e1.4	e4.2	e3.5	30	17	39	2.0	3.9	0.03	1.2	0.07
4	4.5	e9.1	e3.9	e3.7	37	14	18	2.1	1.1	0.02	0.90	0.04
5	3.1	e13	e3.4	e3.8	15	13	14	2.3	0.67	0.01	0.77	0.02
6	2.5	e3.4	e3.1	e4.2	11	11	11	8.5	0.46	0.01	0.58	0.01
7	1.8	e1.6	e4.8	e3.7	9.0	10	10	6.0	43	0.07	0.49	0.01
8	1.5	e1.6	e4.4	e2.7	8.4	94	11	2.4	130	43	0.43	0.00
9	1.3	e1.5	e9.0	e2.2	8.1	35	60	1.6	10	3.1	144	0.00
10	1.2	e1.1	e99	e1.4	7.7	18	16	1.3	4.2	0.64	50	0.00
11	1.1	e1.0	e16	e1.5	6.3	15	11	1.00	1.4	0.32	8.4	0.00
12	1.0	e14	e8.3	e1.8	5.9	16	8.7	1.6	0.68	0.25	2.9	0.00
13	23	e95	e5.3	e1.3	4.8	13	49	3.4	0.53	0.17	1.3	0.00
14	15	e11	e3.5	e180	6.1	19	21	2.0	0.42	0.21	1.3	0.00
15	5.5	e4.7	e2.1	e28	7.7	14	12	1.5	0.32	0.23	0.82	0.00
16	3.5	e4.0	e1.3	e12	6.6	56	9.0	1.2	0.25	0.17	0.60	0.00
17	2.3	e3.7	e1.8	e9.8	4.6	210	7.5	0.94	0.20	0.12	0.59	0.00
18	1.8	e2.6	e2.1	e5.1	4.0	65	6.9	0.78	0.19	0.09	0.75	0.00
19	e1.5	e2.4	e3.5	e4.1	3.4	28	5.2	0.76	0.15	0.08	0.55	0.00
20	e2.4	e1.9	e7.7	e5.3	3.4	22	5.2	2.5	0.14	23	0.58	0.00
21	e2.3	e1.4	e1.7	e7.3	5.1	18	3.9	9.0	0.15	2.1	0.57	0.00
22	e1.6	e1.2	e1.4	e6.2	5.1	16	3.7	2.1	0.11	0.45	0.41	0.00
23	e1.4	e56	e12	e13	3.8	69	3.4	1.0	0.09	4.0	0.36	0.00
24	e1.3	e28	e15	e3.7	50	30	2.9	0.79	0.08	0.66	0.39	0.00
25	e1.6	e12	e5.8	e3.1	20	20	2.3	0.64	0.08	0.29	0.36	0.00
26	e1.7	e5.7	e8.4	e4.7	11	17	2.1	0.53	0.07	0.17	0.28	0.00
27	e1.5	e3.3	e8.4	e5.9	8.6	15	2.0	0.44	0.05	0.11	0.24	0.00
28	e1.3	e98	e4.5	e3.6	127	46	1.8	0.39	0.06	0.11	0.20	0.00
29	e1.3	e17	e3.7	e2.3	---	28	1.8	0.41	0.08	41	0.18	0.00
30	e1.4	e8.1	e4.6	22	---	17	2.2	0.37	0.08	15	0.16	0.00
31	e1.6	---	e3.9	12	---	16	---	0.34	---	8.2	0.14	---
TOTAL	107.6	406.4	265.6	363.8	426.0	1,031	430.6	69.49	199.87	143.71	225.75	0.37
MEAN	3.47	13.5	8.57	11.7	15.2	33.3	14.4	2.24	6.66	4.64	7.28	0.01
MAX	23	98	99	180	127	210	74	9.0	130	43	144	0.12
MIN	1.0	1.0	1.3	1.3	3.4	10	1.8	0.34	0.05	0.01	0.14	0.00
CFSM	0.29	1.14	0.72	0.99	1.28	2.79	1.21	0.19	0.56	0.39	0.61	0.00
IN.	0.34	1.27	0.83	1.14	1.33	3.22	1.35	0.22	0.62	0.45	0.71	0.00

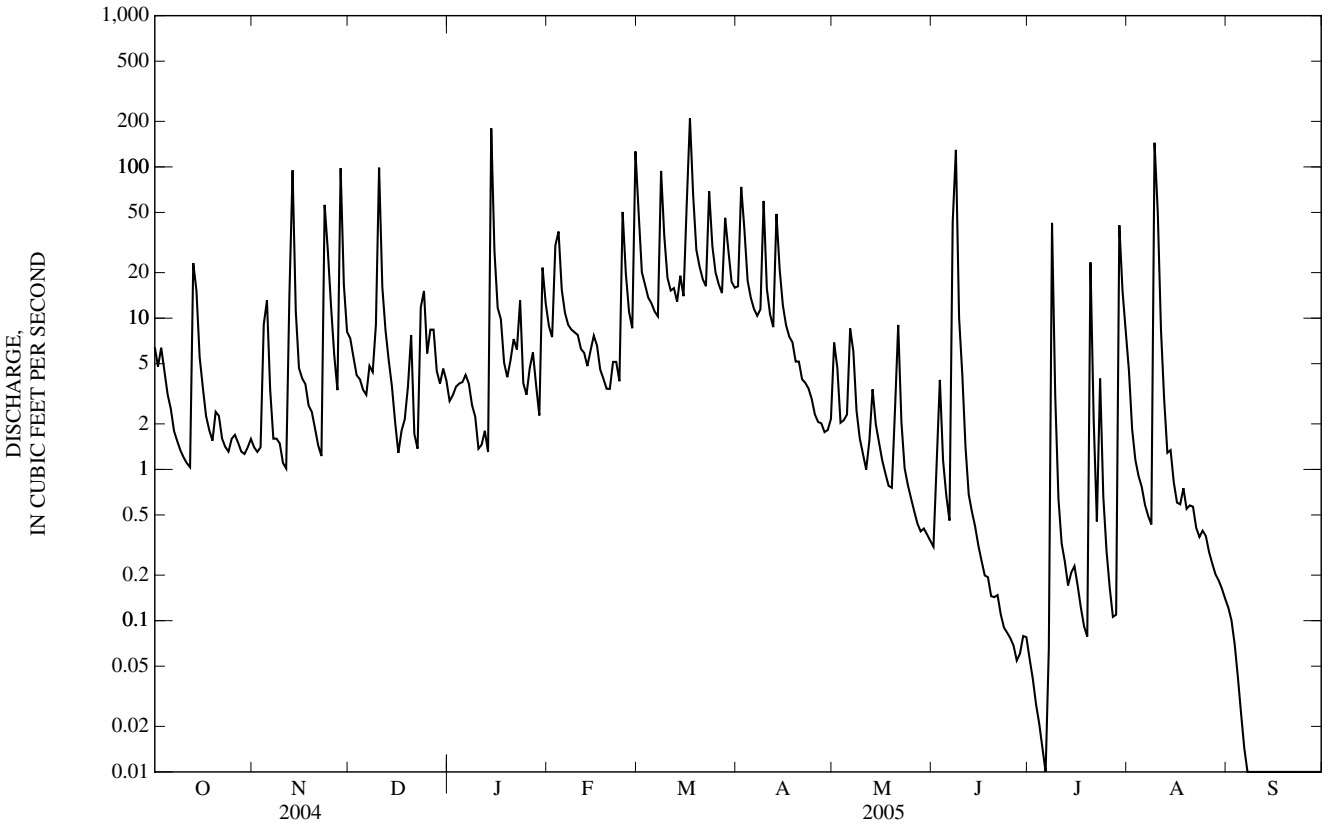
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	7.27	8.33	14.2	14.5	23.1	27.3	18.0	3.68	6.98	3.29	11.5	9.94
MAX	23.8	25.1	43.5	28.6	51.4	56.4	44.8	9.68	17.6	5.19	30.2	27.4
(WY)	(2003)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2004)	(2003)	(2001)	(2004)	(2004)
MIN	0.77	0.21	2.35	3.26	7.77	7.49	5.52	0.20	0.00	0.01	0.84	0.01
(WY)	(2002)	(2002)	(2001)	(2001)	(2002)	(2000)	(2004)	(2002)	(2002)	(2002)	(2002)	(2005)

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	4,515.27		3,670.19			
ANNUAL MEAN	12.3		10.1		12.3	
HIGHEST ANNUAL MEAN					25.3	2003
LOWEST ANNUAL MEAN					5.51	2002
HIGHEST DAILY MEAN	207	Aug 14	210	Mar 17	472	Apr 10, 2003
LOWEST DAILY MEAN	0.00	Jun 21	0.00	Sep 8	0.00	May 28, 2002
ANNUAL SEVEN-DAY MINIMUM	0.00	Jun 21	0.00	Sep 8	0.00	May 28, 2002
MAXIMUM PEAK FLOW			431	Aug 9	1,140	Oct 11, 2002
MAXIMUM PEAK STAGE			8.14	Aug 9	10.51	Oct 11, 2002
INSTANTANEOUS LOW FLOW			0.00*	Sep 8	0.00*	May 28, 2002
ANNUAL RUNOFF (CFSM)	1.04		0.845		1.03	
ANNUAL RUNOFF (INCHES)	14.11		11.47		14.02	
10 PERCENT EXCEEDS	29		21		27	
50 PERCENT EXCEEDS	3.3		2.6		2.8	
90 PERCENT EXCEEDS	0.05		0.07		0.03	

* See REMARKS.
e Estimated.



0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Instantaneous discharge, cfs (00061)	Color, water, fltrd, Pt-Co units (00080)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
OCT													
18...	1400	9	1.7	50	759	8.3	82	6.6	98	14.8	26	6.56	2.43
DEC													
09...	1315	9	33	100	757	8.1	73	6.9	87	10.5	24	5.88	2.35
FEB													
08...	1345	9	8.3	80	760	10.1	87	6.5	83	9.0	20	4.82	1.89
24...	1245	9	59	120	755	9.5	81	6.0	79	8.0	20	4.86	1.92
APR													
13...	0830	9	99	160	751	8.1	78	6.6	77	13.1	23	5.84	2.15
JUN													
16...	1345	9	.28	100	751	5.1	62	6.4	105	23.8	26	6.26	2.54
AUG													
10...	1300	9	25	250	759	6.2	74	5.6	61	23.9	14	3.56	1.30

Date	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
18...	3.75	6.65	27	33	8.67	.1	7.71	3.4	68	.45	E.009	E.009	E.001
DEC													
09...	3.71	6.71	20	25	8.82	.1	8.11	5.3	67	.59	E.005	E.011	.002
FEB													
08...	2.48	7.64	19	23	9.09	E.1	7.51	8.7	62	.45	.010	.063	.002
24...	2.59	7.04	12	15	11.5	.1	5.13	6.4	67	1.0	.042	.082	.004
APR													
13...	2.47	5.99	25	30	6.39	.1	4.72	4.1	73	.83	.032	.035	.002
JUN													
16...	2.48	6.43	28	34	6.25	.1	7.79	4.3	71	.88	.058	.090	.005
AUG													
10...	2.73	4.19	8	10	4.60	E.1	5.82	8.3	61	.85	.030	.042	.002

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chromium, water, unfltrd recoverable, ug/L (01034)	Cobalt water, unfltrd recoverable, ug/L (01037)	Copper, water, unfltrd recoverable, ug/L (01042)	Iron, water, unfltrd recoverable, ug/L (01045)	Lead, water, unfltrd recoverable, ug/L (01051)	Manganese, water, unfltrd recoverable, ug/L (01055)	Mercury water, unfltrd recoverable, ug/L (71900)
OCT													
18...	E.005	.028	10.7	82	<2	<.04	<.8	.503	.8	1,460	.33	151	<.01
DEC													
09...	E.004	.047	9.7	--	--	--	--	--	--	--	--	--	--
FEB													
08...	E.003	.040	8.7	--	--	--	--	--	--	--	--	--	--
24...	.007	.118	17.4	1,430	<2	E.03	1.5	4.22	2.6	4,680	3.90	777	.01
APR													
13...	E.005	.143	17.6	1,250	<2	E.03	1.2	3.09	11.7	4,500	3.98	526	.01
JUN													
16...	<.006	.043	E10.8	--	--	--	--	--	--	--	--	--	--
AUG													
10...	E.005	.103	13.5	--	--	--	--	--	--	--	--	--	--

0209782609 WHITE OAK CREEK AT MOUTH NEAR GREEN LEVEL, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Nickel, water, unfltrd recoverable, ug/L (01067)	Selenium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recoverable, ug/L (01077)	Zinc, water, unfltrd recoverable, ug/L (01092)	Suspended sediment concentration mg/L (80154)
OCT						
18...	<.2	.75	.4	<.16	E1	5
DEC						
09...	--	--	--	--	--	12
FEB						
08...	--	--	--	--	--	10
24...	<.2	1.56	.6	<.16	10	199
APR						
13...	<.2	1.63	.8	<.16	8	154
JUN						
16...	--	--	--	--	--	6
AUG						
10...	--	--	--	--	--	54

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC

LOCATION.--Lat 35°44'30", long 79°01'09", Chatham County, Hydrologic Unit 03030002, 0.2 mi above bridge on U.S. Highway 64, and 1.1 mi west of Wilsonville.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.-- Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
19...	1045	9	18	1.0	.60	755	7.1	80	7.2	158	20.5	31	7.77
19...	1050	9	--	4.0	--	755	5.2	58	6.8	155	20.0	--	--
19...	1055	9	--	8.0	--	755	4.7	53	7.0	156	20.0	--	--
APR													
21...	1045	9	30	1.0	.90	756	9.6	101	8.3	143	17.3	30	7.27
21...	1050	9	--	4.0	--	756	4.9	48	6.7	144	14.3	--	--
21...	1055	9	--	7.0	--	756	4.9	48	6.8	147	14.3	--	--
JUN													
24...	1145	9	25	1.0	.70	763	8.5	109	8.8	164	27.8	34	8.42
24...	1150	9	--	4.0	--	763	4.1	50	7.1	161	25.0	--	--
24...	1155	9	--	8.0	--	763	.2	2	6.9	186	20.1	--	--
AUG													
08...	1445	9	15	1.0	.80	759	6.3	83	7.6	169	29.3	34	8.43
08...	1446	R	--	1.0	.80	759	6.3	83	7.6	169	29.3	--	--
08...	1447	R	--	1.0	.80	759	6.3	83	7.6	169	29.3	--	--
08...	1448	R	--	1.0	.80	759	6.3	83	7.6	169	29.3	--	--
08...	1449	R	--	1.0	.80	759	6.3	83	7.6	169	29.3	--	--
08...	1450	9	--	5.0	--	759	2.6	34	6.7	172	28.6	--	--
08...	1455	9	--	9.0	--	759	.1	1	6.5	211	21.1	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
19...	2.89	3.52	15.9	32	39	14.3	.2	5.74	10.4	92	.84	E.005	<.016
19...	--	--	--	--	--	--	--	--	--	--	1.0	.088	E.010
19...	--	--	--	--	--	--	--	--	--	--	.92	.137	<.016
APR													
21...	2.84	3.02	15.1	29	35	14.1	.2	3.26	11.6	94	.85	.061	.091
21...	--	--	--	--	--	--	--	--	--	--	.94	.186	.108
21...	--	--	--	--	--	--	--	--	--	--	.98	.241	.123
JUN													
24...	3.19	3.21	15.1	34	42	14.4	.2	1.28	11.5	101	.68	.015	<.016
24...	--	--	--	--	--	--	--	--	--	--	.65	E.007	<.016
24...	--	--	--	--	--	--	--	--	--	--	1.3	.512	<.016
AUG													
08...	3.15	3.42	15.5	38	46	15.7	.2	2.31	11.1	98	.64	<.050	<.080
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	.62	<.050	<.080
08...	--	--	--	--	--	--	--	--	--	--	1.9	1.25	<.080

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

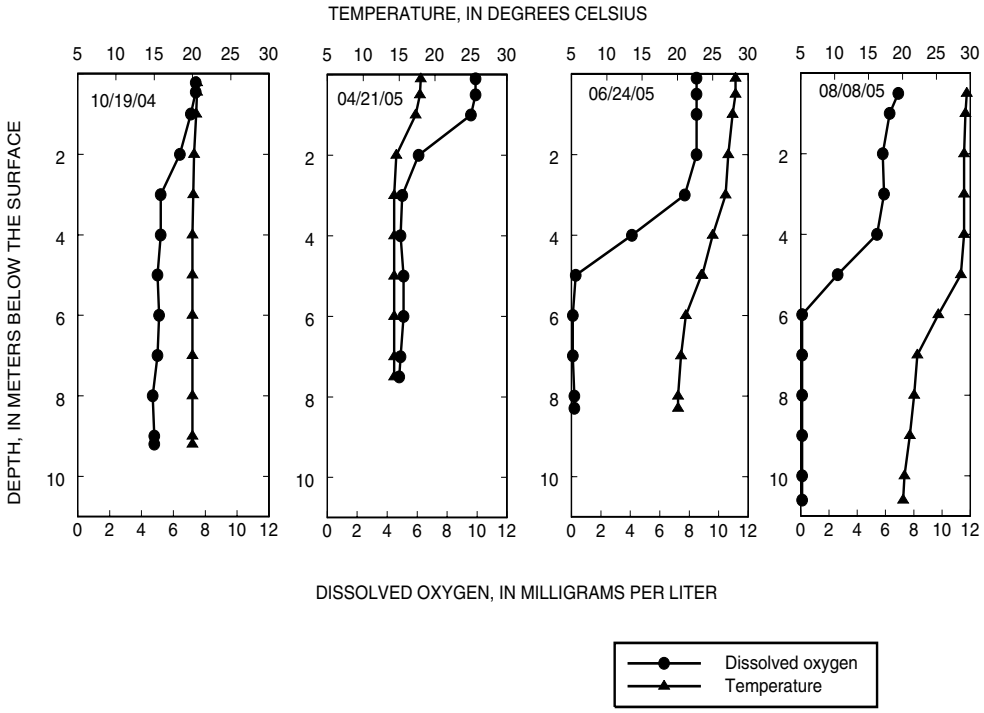
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
19...	<.002	<.006	.048	10.1	E20.3	<.1	58	<2	<.04	<.8	.186	1.2	170
19...	E.001	<.006	.062	--	--	--	--	--	--	--	--	--	350
19...	E.001	<.006	.053	--	--	--	--	--	--	--	--	--	280
APR													
21...	.008	<.006	.058	10.6	8.8	<.1	81	<2	<.04	<.8	.229	1.8	160
21...	.009	<.006	.067	--	--	--	--	--	--	--	--	--	310
21...	.011	<.006	.074	--	--	--	--	--	--	--	--	--	430
JUN													
24...	<.002	<.030	.036	8.5	6.2	<.1	--	--	--	--	--	--	50
24...	<.002	<.030	.037	--	--	--	--	--	--	--	--	--	70
24...	<.002	.032	.167	--	--	--	--	--	--	--	--	--	2,240
AUG													
08...	<.010	<.030	.034	8.6	7.3	<.1	--	--	--	--	--	--	60
08...	--	--	--	--	4.5	<.1	--	--	--	--	--	--	--
08...	--	--	--	--	12.6	<.1	--	--	--	--	--	--	--
08...	--	--	--	--	12.4	<.1	--	--	--	--	--	--	--
08...	--	--	--	--	17.6	<.1	--	--	--	--	--	--	--
08...	<.010	<.030	.035	--	--	--	--	--	--	--	--	--	90
08...	<.010	.110	.18	--	--	--	--	--	--	--	--	--	3,650

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
19...	.18	129	E.01	2.8	.70	.8	<.16	4
19...	--	350	--	--	--	--	--	--
19...	--	256	--	--	--	--	--	--
APR								
21...	.25	66	.09	1.6	.86	.9	<.16	2
21...	--	177	--	--	--	--	--	--
21...	--	260	--	--	--	--	--	--
JUN								
24...	--	48.8	--	--	--	--	--	--
24...	--	74.1	--	--	--	--	--	--
24...	--	2,410	--	--	--	--	--	--
AUG								
08...	--	101	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	196	--	--	--	--	--	--
08...	--	3,830	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.
R -- Quality-control sample, surface water.

0209799150 B. EVERETT JORDAN LAKE ABOVE U.S. HIGHWAY 64 NEAR WILSONVILLE, NC—Continued



0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC

LOCATION.--Lat 35°43'39", long 79°02'34", Chatham County, Hydrologic Unit 03030002, at Bells Landing and 2.0 mi southeast of Griffins Crossroads.

PERIOD OF RECORD.--Water years 1991-1995, 1999 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in November 1994 and May 1995. Results may be obtained from the USGS Water Science Center, Raleigh. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sampling depth, meters (00098)	Transparency Secchi disc, meters (00078)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
20...	1000	9	20	1.0	.70	755	8.8	99	8.1	156	21.1	30	7.46
20...	1005	9	--	3.0	--	755	8.6	97	7.9	155	21.1	--	--
20...	1010	9	--	6.0	--	755	6.3	71	7.2	156	20.6	--	--
APR													
21...	1000	9	30	1.0	.90	755	11.8	126	9.1	145	18.4	30	7.13
21...	1005	9	--	3.0	--	755	10.2	106	8.3	142	16.8	--	--
21...	1010	9	--	6.0	--	755	6.6	66	7.0	144	14.4	--	--
JUN													
24...	1045	9	25	1.0	.60	763	9.0	113	9.0	162	27.2	32	7.79
24...	1050	9	--	3.0	--	763	8.0	98	8.6	159	26.1	--	--
24...	1055	9	--	6.0	--	763	.1	2	6.8	170	21.5	--	--
AUG													
08...	1415	9	15	1.0	.80	759	8.4	113	8.6	167	30.9	33	7.95
08...	1420	9	--	3.0	--	759	5.3	70	7.2	165	29.8	--	--
08...	1425	9	--	6.0	--	759	.2	2	6.7	184	26.9	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
20...	2.65	3.45	15.2	35	43	14.5	.2	5.76	10.8	94	.77	E.005	<.016
20...	--	--	--	--	--	--	--	--	--	--	.81	E.005	<.016
20...	--	--	--	--	--	--	--	--	--	--	.81	E.006	<.016
APR													
21...	2.86	2.99	15.3	28	34	13.6	.2	3.26	11.8	95	.86	E.006	.040
21...	--	--	--	--	--	--	--	--	--	--	.88	E.008	.063
21...	--	--	--	--	--	--	--	--	--	--	.72	.073	.134
JUN													
24...	3.08	3.10	15.1	29	36	13.9	.2	1.72	12.1	88	.64	E.008	<.016
24...	--	--	--	--	--	--	--	--	--	--	.68	<.010	<.016
24...	--	--	--	--	--	--	--	--	--	--	.83	.198	<.016
AUG													
08...	3.16	3.31	15.8	36	43	15.0	.2	1.84	11.7	89	.60	.011	E.013
08...	--	--	--	--	--	--	--	--	--	--	.59	<.050	<.080
08...	--	--	--	--	--	--	--	--	--	--	.59	<.050	<.080

0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

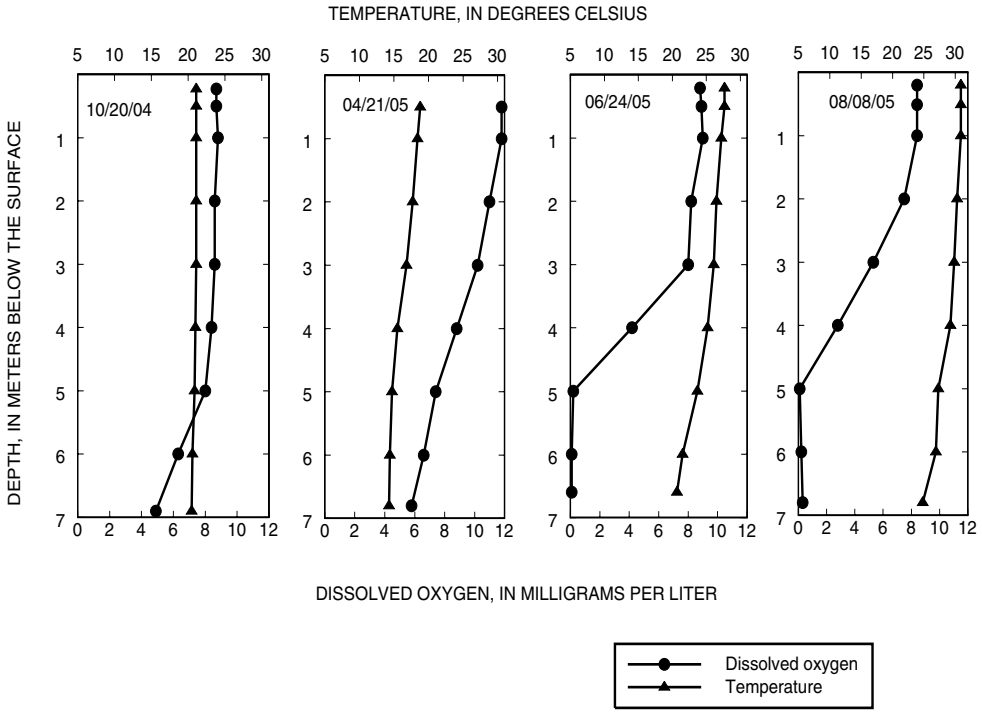
Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank-ton, fluoro, ug/L (70954)	Alum-inum, water, unfltrd recover-able, ug/L (01105)	Arsenic water unfltrd ug/L (01002)	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)	Cobalt water, unfltrd recover-able, ug/L (01037)	Copper, water, unfltrd recover-able, ug/L (01042)	Iron, water, unfltrd recover-able, ug/L (01045)
OCT													
20...	<.002	<.006	.046	10.1	E15.6	<.1	51	<2	<.04	<.8	.193	.7	150
20...	<.002	E.003	.045	--	--	--	--	--	--	--	--	--	150
20...	E.001	<.006	.045	--	--	--	--	--	--	--	--	--	160
APR													
21...	.007	<.006	.053	9.8	8.7	<.1	35	<2	<.04	<.8	.182	1.6	90
21...	.007	<.006	.051	--	--	--	--	--	--	--	--	--	110
21...	.010	<.006	.045	--	--	--	--	--	--	--	--	--	150
JUN													
24...	<.002	<.030	.031	10.2	2.8	<.1	--	--	--	--	--	--	50
24...	<.002	<.030	.034	--	--	--	--	--	--	--	--	--	90
24...	<.002	<.030	.053	--	--	--	--	--	--	--	--	--	420
AUG													
08...	E.001	<.006	.030	8.3	8.9	1.9	--	--	--	--	--	--	60
08...	<.010	<.030	.032	--	--	--	--	--	--	--	--	--	130
08...	<.010	<.04	.039	--	--	--	--	--	--	--	--	--	160

Date	Lead, water, unfltrd recover-able, ug/L (01051)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mercury water, unfltrd recover-able, ug/L (71900)	Molyb-denum, water, unfltrd recover-able, ug/L (01062)	Nickel, water, unfltrd recover-able, ug/L (01067)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover-able, ug/L (01077)	Zinc, water, unfltrd recover-able, ug/L (01092)
OCT								
20...	.17	95.4	E.01	2.8	.76	.9	<.16	2
20...	--	95.5	--	--	--	--	--	--
20...	--	104	--	--	--	--	--	--
APR								
21...	.14	39	.07	1.5	.80	.7	<.16	E2
21...	--	42.8	--	--	--	--	--	--
21...	--	64.2	--	--	--	--	--	--
JUN								
24...	--	38.1	--	--	--	--	--	--
24...	--	55.5	--	--	--	--	--	--
24...	--	1,690	--	--	--	--	--	--
AUG								
08...	--	54.5	--	--	--	--	--	--
08...	--	96.5	--	--	--	--	--	--
08...	--	742	--	--	--	--	--	--

Remark codes used in this table:
< -- Less than.
E -- Estimated.

Medium codes used in this table:
9 -- Surface water.

0209801100 B. EVERETT JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC—Continued



02098197 B. EVERETT JORDAN LAKE AT DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'17", long 79°04'06", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi^2.

PERIOD OF RECORD.--May 1987 to current year.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Lake elevations controlled by reservoir operations at B. Everett Jordan Dam. Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft^3 at 240.0 ft, of which 23,454,011,000 ft^3 is controlled flood storage. (See station 02098198.)

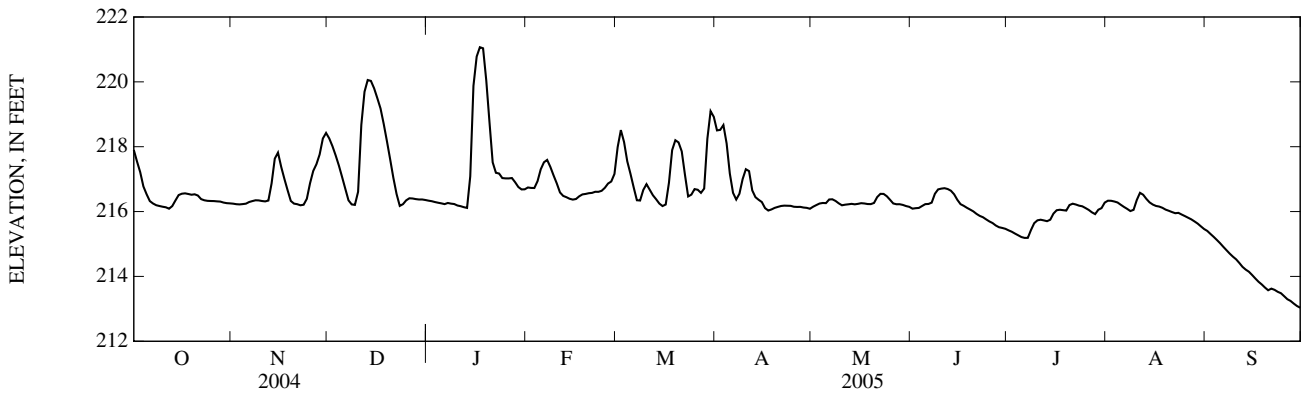
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 233.83 ft, Apr. 15, 2003; minimum relevation, 207.85 ft, Nov. 12, 1986.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 221.22 ft, Jan. 18; minimum elevation, 212.98 ft, Sept. 30.

COOPERATION.--Some records furnished by U.S. Army Corps of Engineers.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	217.90	216.24	218.25	216.34	216.74	217.99	218.50	216.15	216.09	215.42	216.33	215.40
2	217.55	216.23	218.01	216.32	216.73	218.51	218.52	216.20	216.10	215.38	216.33	215.31
3	217.22	216.22	217.73	216.29	216.73	218.14	218.67	216.25	216.11	215.32	216.31	215.22
4	216.77	216.23	217.42	216.27	216.94	217.55	218.10	216.26	216.17	215.27	216.28	215.12
5	216.53	216.24	217.07	216.25	217.30	217.16	217.17	216.26	216.23	215.21	216.21	215.02
6	216.32	216.29	216.70	216.23	217.52	216.74	216.58	216.37	216.23	215.19	216.14	214.91
7	216.25	216.32	216.35	216.26	217.59	216.35	216.37	216.38	216.28	215.19	216.08	214.81
8	216.20	216.35	216.22	216.24	217.38	216.34	216.55	216.33	216.55	215.43	216.02	214.70
9	216.17	216.34	216.21	216.23	217.11	216.67	217.00	216.25	216.68	215.64	216.05	214.61
10	216.15	216.32	216.61	216.19	216.87	216.84	217.31	216.19	216.71	215.73	216.36	214.53
11	216.13	216.31	218.67	216.17	216.59	216.67	217.25	216.21	216.72	215.75	216.58	214.41
12	216.09	216.34	219.69	216.14	216.48	216.50	216.65	216.22	216.69	215.73	216.52	214.29
13	216.17	216.87	220.06	216.11	216.44	216.38	216.44	216.24	216.64	215.70	216.39	214.21
14	216.34	217.63	220.03	217.09	216.39	216.25	216.36	216.22	216.53	215.75	216.28	214.14
15	216.51	217.82	219.80	219.88	216.37	216.17	216.29	216.24	216.36	215.94	216.22	214.04
16	216.55	217.38	219.49	220.78	216.39	216.22	216.11	216.26	216.23	216.04	216.17	213.94
17	216.56	217.01	219.18	221.07	216.47	216.89	216.03	216.25	216.18	216.06	216.15	213.83
18	216.54	216.66	218.70	221.03	216.53	217.89	216.07	216.23	216.11	216.04	216.12	213.75
19	216.52	216.33	218.17	220.04	216.54	218.20	216.11	216.23	216.06	216.03	216.06	213.66
20	216.53	216.24	217.61	218.76	216.57	218.13	216.14	216.27	216.01	216.20	216.02	213.57
21	216.49	216.23	217.04	217.52	216.58	217.86	216.17	216.45	215.93	216.24	215.98	213.62
22	216.38	216.19	216.54	217.20	216.61	217.14	216.18	216.55	215.87	216.22	215.95	213.59
23	216.35	216.21	216.17	217.17	216.61	216.47	216.18	216.54	215.82	216.18	215.96	213.52
24	216.33	216.39	216.23	217.03	216.64	216.52	216.18	216.47	215.76	216.16	215.91	213.48
25	216.33	216.87	216.34	217.02	216.73	216.69	216.15	216.36	215.70	216.11	215.86	213.39
26	216.32	217.25	216.41	217.02	216.86	216.67	216.14	216.25	215.65	216.05	215.81	213.30
27	216.31	217.46	216.40	217.03	216.93	216.58	216.15	216.23	215.57	215.98	215.76	213.24
28	216.31	217.76	216.38	216.90	217.16	216.71	216.12	216.23	215.52	215.92	215.70	213.16
29	216.28	218.25	216.37	216.76	---	218.25	216.11	216.20	215.49	216.06	215.63	213.09
30	216.26	218.42	216.37	216.68	---	219.10	216.09	216.17	215.47	216.11	215.54	213.03
31	216.25	---	216.36	216.69	---	218.92	---	216.15	---	216.28	215.46	---
MEAN	216.47	216.75	217.50	217.31	216.78	217.18	216.66	216.28	216.12	215.82	216.07	214.10
MAX	217.90	218.42	220.06	221.07	217.59	219.10	218.67	216.55	216.72	216.28	216.58	215.40
MIN	216.09	216.19	216.17	216.11	216.37	216.17	216.03	216.15	215.47	215.19	215.46	213.03



02098198 HAW RIVER BELOW B. EVERETT JORDAN LAKE DAM NEAR MONCURE, NC

LOCATION.--Lat 35°39'07", long 79°04'02", Chatham County, Hydrologic Unit 0303002, on right bank 300 ft downstream from B. Everett Jordan Lake Dam, 2.5 mi north of Moncure, and 4.2 mi upstream from mouth.

DRAINAGE AREA.--1,689 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1965 to current year. Discharge records, October 1965 to September 1992. Gage height records only, October 1992 to current year. October 1965 to September 1978, published as "Haw River nr Haywood, NC" (02098200).

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 155.00 ft above NGVD of 1929 (U.S. Corps of Engineers bench mark). Prior to Oct. 1, 1978, water-stage recorder at site 0.3 mi. downstream at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

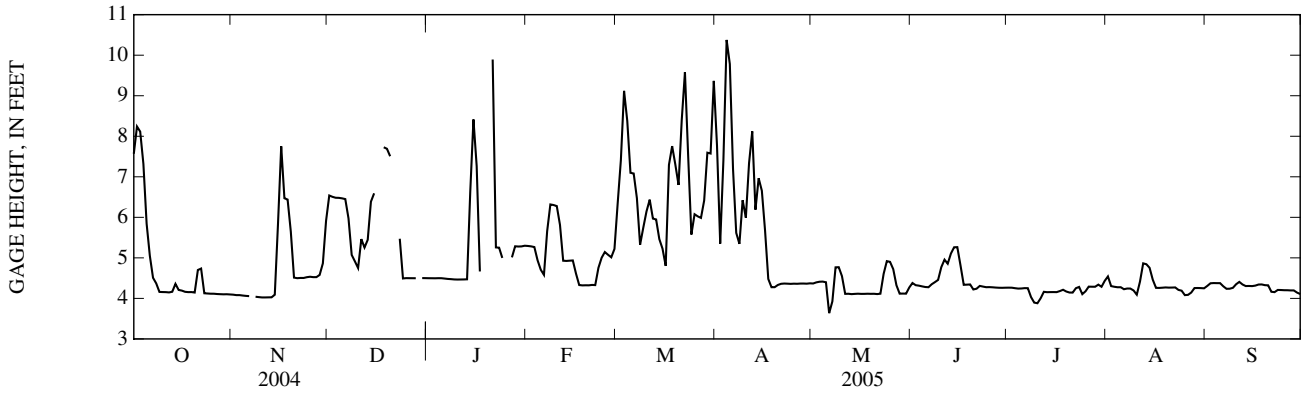
EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 22.41 ft, Oct. 25, 1971 at site 0.3 mi downstream; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 12.58 ft, Jan. 20; minimum gage height, 3.23 ft, Aug. 23.

REMARKS.--Stage regulated by B. Everett Jordan Lake Dam (Station 02098197).

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.57	4.09	6.54	4.50	5.29	6.34	7.77	4.37	4.38	4.26	4.54	4.31
2	8.24	4.08	6.51	4.50	5.28	7.41	5.35	4.40	4.33	4.26	4.30	4.37
3	8.12	4.08	6.48	4.50	5.27	9.12	7.41	4.41	4.31	4.25	4.29	4.38
4	7.32	4.07	6.48	4.50	4.94	8.38	10.38	4.41	4.30	4.24	4.28	4.38
5	5.84	4.06	6.47	4.50	4.71	7.10	9.78	4.40	4.28	4.24	4.28	4.38
6	5.05	4.06	6.45	4.49	4.58	7.08	7.19	3.64	4.28	4.25	4.23	4.30
7	4.51	---	5.98	4.48	5.66	6.47	5.62	3.92	4.35	4.25	4.24	4.24
8	4.37	4.04	5.07	4.47	6.32	5.32	5.35	4.77	4.40	4.03	4.24	4.24
9	4.16	4.03	4.91	4.47	6.30	5.75	6.42	4.77	4.46	3.90	4.20	4.26
10	4.16	4.02	4.75	4.47	6.28	6.14	5.99	4.55	4.77	3.88	4.09	4.35
11	4.15	4.02	5.46	4.47	5.81	6.44	7.34	4.11	4.96	4.00	4.41	4.41
12	4.15	4.03	5.26	4.47	4.93	5.97	8.12	4.11	4.86	4.16	4.86	4.34
13	4.16	4.03	5.45	4.47	4.92	5.95	6.19	4.11	5.11	4.15	4.84	4.30
14	4.36	4.09	6.39	6.63	4.93	5.46	6.96	4.11	5.26	4.16	4.75	4.31
15	4.21	5.83	6.59	8.41	4.94	5.23	6.66	4.12	5.26	4.16	4.46	4.30
16	4.19	7.75	---	7.26	4.61	4.80	5.67	4.11	4.81	4.15	4.26	4.32
17	4.16	6.47	---	4.66	4.33	7.29	4.48	4.11	4.33	4.18	4.26	4.34
18	4.15	6.44	7.73	---	4.32	7.76	4.28	4.11	4.34	4.21	4.26	4.34
19	4.16	5.65	7.69	---	4.32	7.30	4.28	4.11	4.34	4.17	4.27	4.33
20	4.14	4.51	7.51	---	4.32	6.80	4.33	4.11	4.22	4.14	4.27	4.32
21	4.70	4.50	---	9.89	4.33	8.40	4.36	4.11	4.24	4.14	4.27	4.16
22	4.74	4.50	---	5.26	4.33	9.58	4.37	4.12	4.31	4.25	4.27	4.15
23	4.13	4.50	5.47	5.25	4.75	7.53	4.36	4.61	4.29	4.28	4.21	4.21
24	4.12	4.52	4.49	5.00	5.00	5.58	4.36	4.92	4.28	4.10	4.19	4.21
25	4.12	4.53	4.50	---	5.14	6.08	4.36	4.90	4.28	4.17	4.08	4.20
26	4.11	4.52	4.50	---	5.08	6.02	4.36	4.72	4.27	4.29	4.09	4.20
27	4.11	4.53	4.50	5.01	5.01	5.99	4.37	4.32	4.27	4.29	4.14	4.20
28	4.10	4.58	4.50	5.29	5.22	6.42	4.37	4.12	4.26	4.29	4.25	4.20
29	4.10	4.86	---	5.28	---	7.59	4.36	4.12	4.26	4.34	4.26	4.14
30	4.10	5.91	4.50	5.28	---	7.57	4.37	4.12	4.26	4.29	4.25	4.11
31	4.10	---	4.50	5.30	---	9.37	---	4.27	---	4.43	4.25	---
MEAN	4.76	---	---	---	5.03	6.85	5.77	4.29	4.47	4.19	4.31	4.28
MAX	8.24	---	---	---	6.32	9.58	10.38	4.92	5.26	4.43	4.86	4.41
MIN	4.10	---	---	---	4.32	4.80	4.28	3.64	4.22	3.88	4.08	4.11



02098198 HAW RIVER BELOW B. EVERETT JORDAN DAM NEAR MONCURE, NC—Continued

PRECIPITATION RECORDS

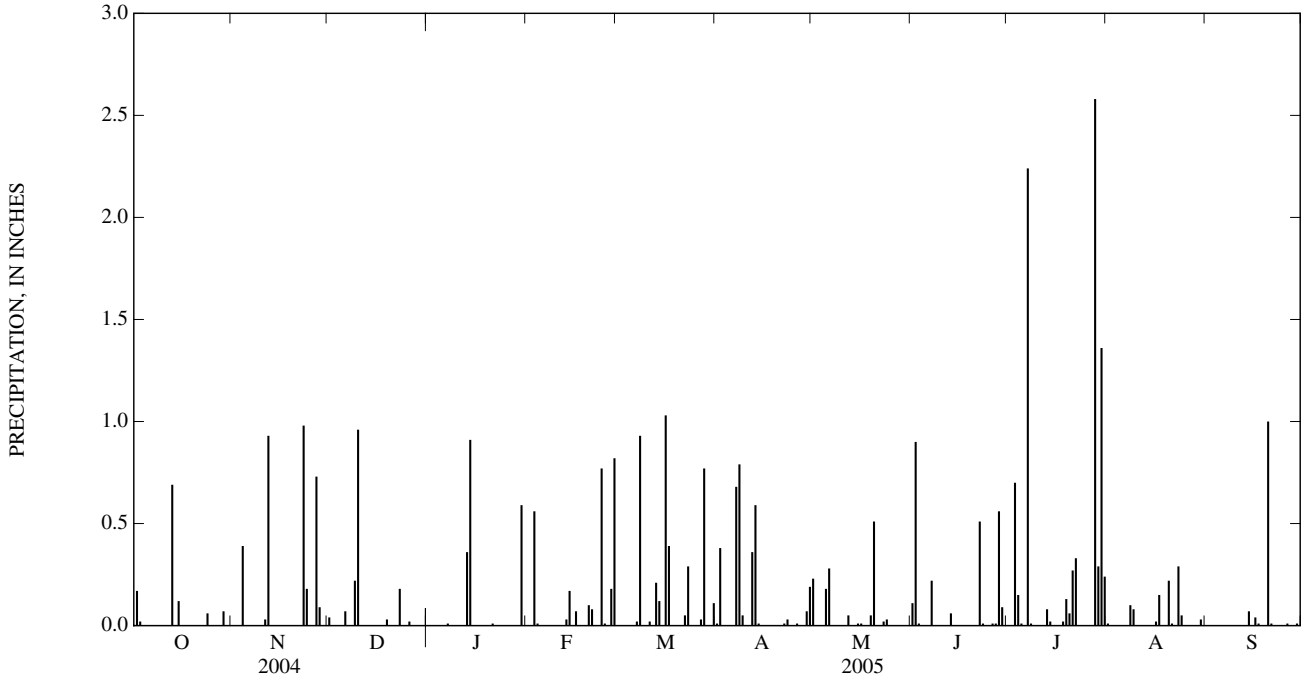
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Records fair. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.23	0.11	0.00	0.01	0.00
2	0.17	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.90	0.00	0.00	0.00
3	0.02	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.01	0.70	0.00	0.00
4	0.00	0.39	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.15	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.01	0.00	0.00
6	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.02	0.68	0.00	0.22	2.24	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.93	0.79	0.00	0.00	0.01	0.10	0.00
9	0.00	0.00	0.22	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.08	0.00
10	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.93	0.00	0.00	0.00	0.00	0.36	0.05	0.00	0.00	0.00	0.00
13	0.69	0.00	0.00	0.36	0.03	0.21	0.59	0.00	0.06	0.08	0.00	0.00
14	0.00	0.00	0.00	0.91	0.17	0.12	0.01	0.00	0.00	0.02	0.00	0.07
15	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.07	1.03	0.00	0.01	0.00	0.00	0.02	0.04
17	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.15	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
19	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.05	0.00	0.13	0.00	0.00
20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.51	0.00	0.06	0.22	1.00
21	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00	0.00	0.27	0.01	0.01
22	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.51	0.33	0.00	0.00
23	0.00	0.98	0.18	0.00	0.00	0.29	0.03	0.02	0.01	0.00	0.29	0.00
24	0.06	0.18	0.00	0.00	0.77	0.00	0.00	0.03	0.00	0.00	0.05	0.00
25	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01
27	0.00	0.73	0.00	0.00	0.18	0.03	0.00	0.00	0.01	0.00	0.00	0.00
28	0.00	0.09	0.00	0.00	0.82	0.77	0.00	0.00	0.56	2.58	0.00	0.00
29	0.07	0.00	0.00	0.00	---	0.00	0.07	0.00	0.09	0.29	0.00	0.01
30	0.00	0.00	0.00	0.59	---	0.00	0.19	0.00	0.00	1.36	0.03	0.00
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	0.24	0.00	---
TOTAL	1.13	3.33	1.52	1.88	2.80	3.97	3.18	1.37	2.49	8.49	0.96	1.15



02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC

LOCATION.--Lat 36°02'14", long 79°56'44", Guilford County, Hydrologic Unit 03030003, on right bank on downstream side of culvert on Secondary Road 1541, 3.3 mi upstream from High Point Dam, and 5.2 mi northeast of High Point College, High Point.

DRAINAGE AREA.--14.8 mi^2.

PERIOD OF RECORD.--July 1928 to March 1994, October 1997 to current year.

REVISED RECORDS.--WSP 1723: 1929(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 764.02 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge, 6,300 ft^3/s, gage height, 10.87 ft, from floodmark, from rating curve extended above 1,600 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for period of record also occurred on Aug. 8, 2002. Minimum discharge for current water year also occurred Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	5.2	21	6.8	13	36	14	40	4.0	5.3	18	2.0
2	21	5.5	14	6.9	9.6	18	33	13	43	5.2	9.6	2.1
3	22	6.2	9.2	6.9	66	13	18	9.3	83	11	7.4	1.8
4	9.7	55	6.1	6.7	32	11	13	7.7	26	22	6.4	1.6
5	7.6	19	5.4	7.3	17	9.6	12	7.1	15	13	6.0	1.5
6	7.1	7.2	5.4	7.4	13	8.7	8.4	23	9.9	7.7	5.7	1.5
7	9.1	5.5	16	7.6	11	7.7	24	11	10	39	5.7	1.4
8	8.6	4.7	7.7	7.4	9.3	32	34	8.8	54	35	6.2	1.4
9	7.1	4.4	35	6.9	8.5	17	35	7.3	42	12	29	1.3
10	5.7	4.4	412	7.0	17	11	15	6.2	29	7.0	14	1.1
11	6.1	4.4	61	7.4	12	9.4	12	5.1	15	5.8	7.1	1.1
12	5.6	162	32	7.5	9.0	8.8	13	5.2	10	5.7	6.0	1.1
13	7.6	48	24	7.6	7.7	7.5	14	6.0	10	9.4	5.1	1.1
14	5.9	18	18	146	14	9.9	24	5.5	8.2	68	4.7	1.1
15	5.5	11	12	25	15	8.2	12	6.0	6.5	31	4.2	1.2
16	5.2	8.8	11	18	13	31	9.2	6.6	5.8	12	4.5	1.1
17	5.2	7.5	10	13	8.0	68	7.6	6.0	5.1	7.7	8.2	0.96
18	5.4	5.4	9.8	e11	7.2	27	7.5	5.0	4.7	6.0	8.6	0.99
19	7.5	7.5	8.8	e9.3	6.8	16	5.7	5.0	4.6	5.9	7.7	0.85
20	8.2	5.3	e8.7	8.9	6.8	12	5.9	8.4	4.7	20	14	1.3
21	5.9	4.4	e8.6	9.0	8.7	12	5.7	12	4.4	9.2	17	11
22	6.3	4.1	8.5	8.4	8.2	12	5.7	7.5	4.3	7.9	5.4	2.5
23	5.6	39	35	8.1	7.5	46	9.3	13	4.3	5.4	4.4	1.8
24	8.4	59	21	6.9	36	29	7.5	8.4	3.9	4.7	3.8	1.4
25	7.1	62	13	6.9	21	15	6.4	7.5	3.7	4.4	3.4	1.5
26	6.2	22	9.7	7.1	14	11	5.8	5.5	3.7	4.2	2.8	1.8
27	6.3	17	8.4	6.6	11	10	6.3	4.5	4.7	4.0	2.6	1.7
28	7.9	55	7.8	6.0	117	267	6.1	4.2	24	16	2.5	1.5
29	7.4	18	7.9	e6.4	---	49	8.5	4.1	9.9	97	2.4	1.4
30	5.7	13	8.5	e36	---	22	8.8	3.8	6.2	43	2.6	1.3
31	4.9	---	7.0	20	---	17	---	3.7	---	38	2.7	---
TOTAL	246.8	688.5	862.5	446.0	519.3	851.8	387.4	266.4	459.6	562.5	227.7	52.40
MEAN	7.96	22.9	27.8	14.4	18.5	27.5	12.9	8.59	15.3	18.1	7.35	1.75
MAX	22	162	412	146	117	267	35	40	83	97	29	11
MIN	4.9	4.1	5.4	6.0	6.8	7.5	5.7	3.7	3.7	4.0	2.4	0.85
CFSM	0.54	1.55	1.88	0.97	1.25	1.86	0.87	0.58	1.04	1.23	0.50	0.12
IN.	0.62	1.73	2.17	1.12	1.31	2.14	0.97	0.67	1.16	1.41	0.57	0.13

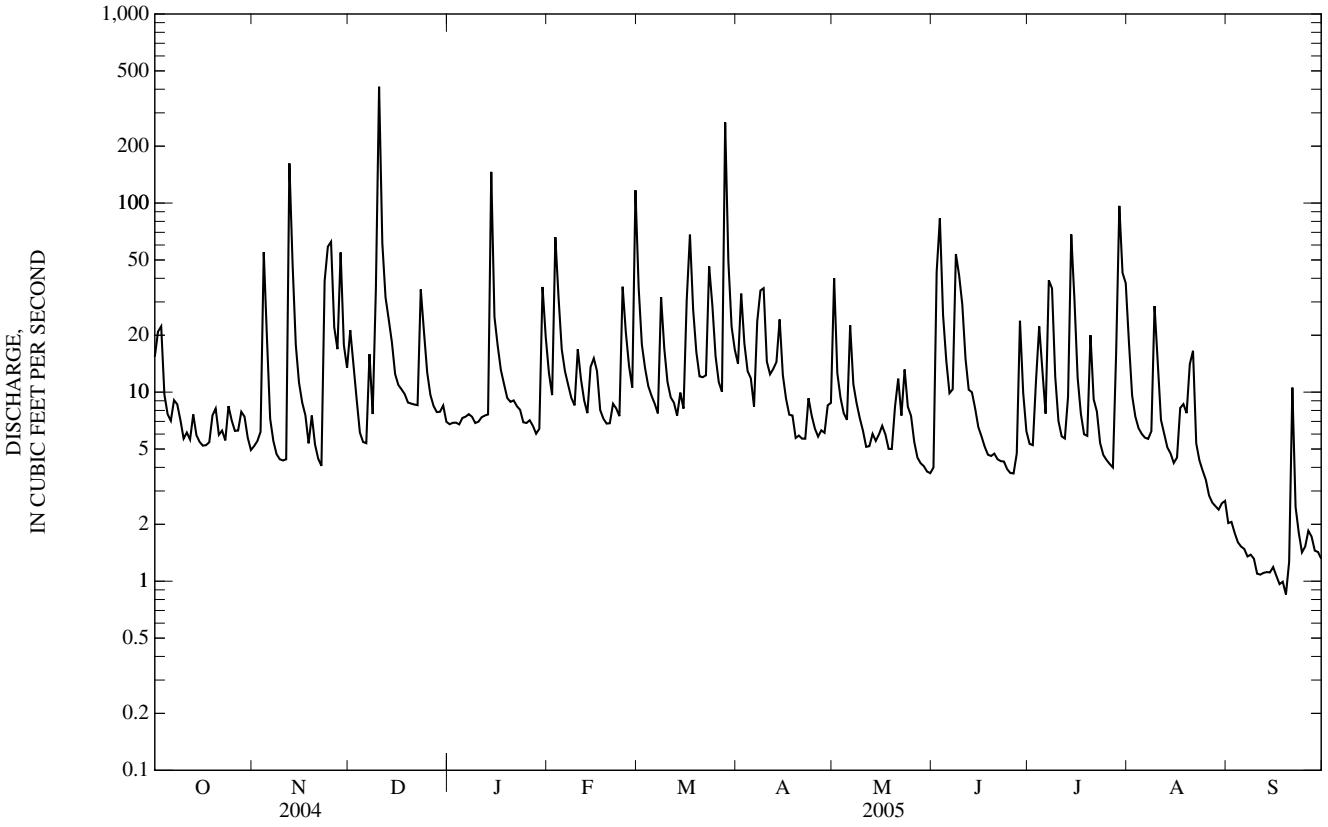
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2005,@ BY WATER YEAR (WY)

MEAN	12.0	12.0	16.7	24.0	27.5	26.9	21.3	15.5	12.6	13.1	12.8	15.4
MAX	79.5	39.2	48.6	82.9	83.0	106	71.6	58.8	61.5	97.5	55.9	124
(WY)	(1960)	(1980)	(1933)	(1978)	(1979)	(1975)	(1987)	(1978)	(1969)	(1975)	(1949)	(2000)
MIN	1.88	2.35	3.53	4.32	6.48	6.76	5.52	4.57	3.41	2.93	2.87	1.74
(WY)	(1942)	(1942)	(1942)	(1942)	(1931)	(1967)	(1942)	(1941)	(1986)	(1977)	(1941)	(1954)

02099000 EAST FORK DEEP RIVER NEAR HIGH POINT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1929 - 2005[@]	
ANNUAL TOTAL	7,047.0		5,570.90			
ANNUAL MEAN	19.3		15.3		17.4	
HIGHEST ANNUAL MEAN					40.4	2003
LOWEST ANNUAL MEAN					7.28	1967
HIGHEST DAILY MEAN	662	Sep 28	412	Dec 10	1,670	Sep 24, 1947
LOWEST DAILY MEAN	1.8	Jul 16	0.85	Sep 19	0.61	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	3.4	Jun 19	1.0	Sep 13	0.65	Aug 7, 2002
MAXIMUM PEAK FLOW			1,380	Dec 10	6,300*	Sep 24, 1947
MAXIMUM PEAK STAGE			10.45	Dec 10	13.46	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.77*	Sep 19	0.41*	Aug 7, 2002
ANNUAL RUNOFF (CFSM)	1.30		1.03		1.18	
ANNUAL RUNOFF (INCHES)	17.71		14.00		15.99	
10 PERCENT EXCEEDS	32		32		26	
50 PERCENT EXCEEDS	7.5		7.9		7.1	
90 PERCENT EXCEEDS	3.9		3.6		3.6	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02100500 DEEP RIVER AT RAMSEUR, NC

LOCATION.--Lat 35°43'35", long 79°39'20", Randolph County, Hydrologic Unit 03030003, on right bank 0.2 mi downstream of Main Street bridge in Ramseur, 0.5 mi downstream of mill dam, and 1.5 mi downstream of Sandy Creek.

DRAINAGE AREA.--349 mi^2.

PERIOD OF RECORD.--November 1922 to current year.

REVISED RECORDS.--WSP 1032: 1923-24, 1925(M), 1926, 1927-28(M), 1929, 1930(M), 1932-33, 1934(M), 1935, 1936-37(M), 1944(M). WSP 1383: 1923(m), 1925, 1927, 1930, 1936. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 419.50 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow slightly regulated by Oak Hollow Reservoir (station 02098495), High Point Municipal Lake (station 02099096), and small power plant reservoirs. Prior to January 1963, diurnal fluctuation caused by power plant immediately upstream from station. Town of Asheboro diverted an average of 7.1 ft^3/s from Yadkin River Basin for water supply and discharged an average of 6.8 ft^3/s of treated effluent upstream from the station. Maximum discharge for period of record from rating curve extended above 18,000 ft^3/s, on basis of slope-area measurement of peak flow; gage height, 34.04 ft. Minimum discharge for period of record occurred frequently in 1941.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1901 reached a stage of 28.75 ft, from floodmarks, 0.2 mi upstream; discharge, 30,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	727	103	267	159	312	1,560	414	179	56	74	506	48
2	797	129	262	158	232	599	367	230	135	67	357	43
3	404	118	238	156	248	397	436	189	301	68	130	38
4	303	80	189	156	904	305	345	155	306	110	139	35
5	219	307	162	153	475	270	290	151	194	67	75	31
6	177	238	205	142	331	228	231	88	109	119	79	30
7	151	137	180	140	255	217	292	143	135	85	52	29
8	119	108	212	162	234	511	893	158	104	259	39	29
9	123	103	186	119	218	792	920	132	130	261	1,000	28
10	117	104	3,060	146	216	396	492	103	237	98	1,160	29
11	112	104	3,070	133	257	305	308	108	432	109	781	28
12	107	192	821	141	213	258	235	112	252	101	491	28
13	240	1,520	480	150	182	257	276	161	78	102	175	27
14	251	489	355	4,330	186	248	436	144	123	76	69	28
15	176	274	276	1,730	289	235	408	130	139	77	95	27
16	145	183	236	592	275	321	209	90	130	79	109	27
17	101	181	184	405	217	1,530	209	99	66	85	86	28
18	100	167	193	299	198	1,140	202	105	68	79	142	27
19	92	138	181	243	182	563	172	99	42	68	159	27
20	109	127	171	221	172	406	185	115	73	140	114	28
21	128	142	168	216	173	328	186	179	45	177	86	27
22	116	128	166	206	211	279	167	142	42	100	64	27
23	109	191	188	198	198	375	158	115	23	58	61	27
24	106	477	489	186	301	793	157	108	84	35	118	27
25	109	718	292	163	552	492	154	135	34	15	106	27
26	111	525	215	195	336	362	151	114	32	35	69	28
27	105	308	183	183	255	301	143	130	41	35	35	27
28	102	618	170	175	1,340	2,030	115	32	57	42	9.9	28
29	70	538	155	144	---	2,530	143	112	104	182	14	26
30	98	336	160	190	---	1,560	162	67	91	576	44	25
31	107	---	162	463	---	574	---	47	---	618	51	---
TOTAL	5,731	8,783	13,276	12,054	8,962	20,162	8,856	3,872	3,663	3,997	6,415.9	884
MEAN	185	293	428	389	320	650	295	125	122	129	207	29.5
MAX	797	1,520	3,070	4,330	1,340	2,530	920	230	432	618	1,160	48
MIN	70	80	155	119	172	217	115	32	23	15	9.9	25
CFSM	0.53	0.84	1.23	1.11	0.92	1.86	0.85	0.36	0.35	0.37	0.59	0.08
IN.	0.61	0.94	1.42	1.28	0.96	2.15	0.94	0.41	0.39	0.43	0.68	0.09

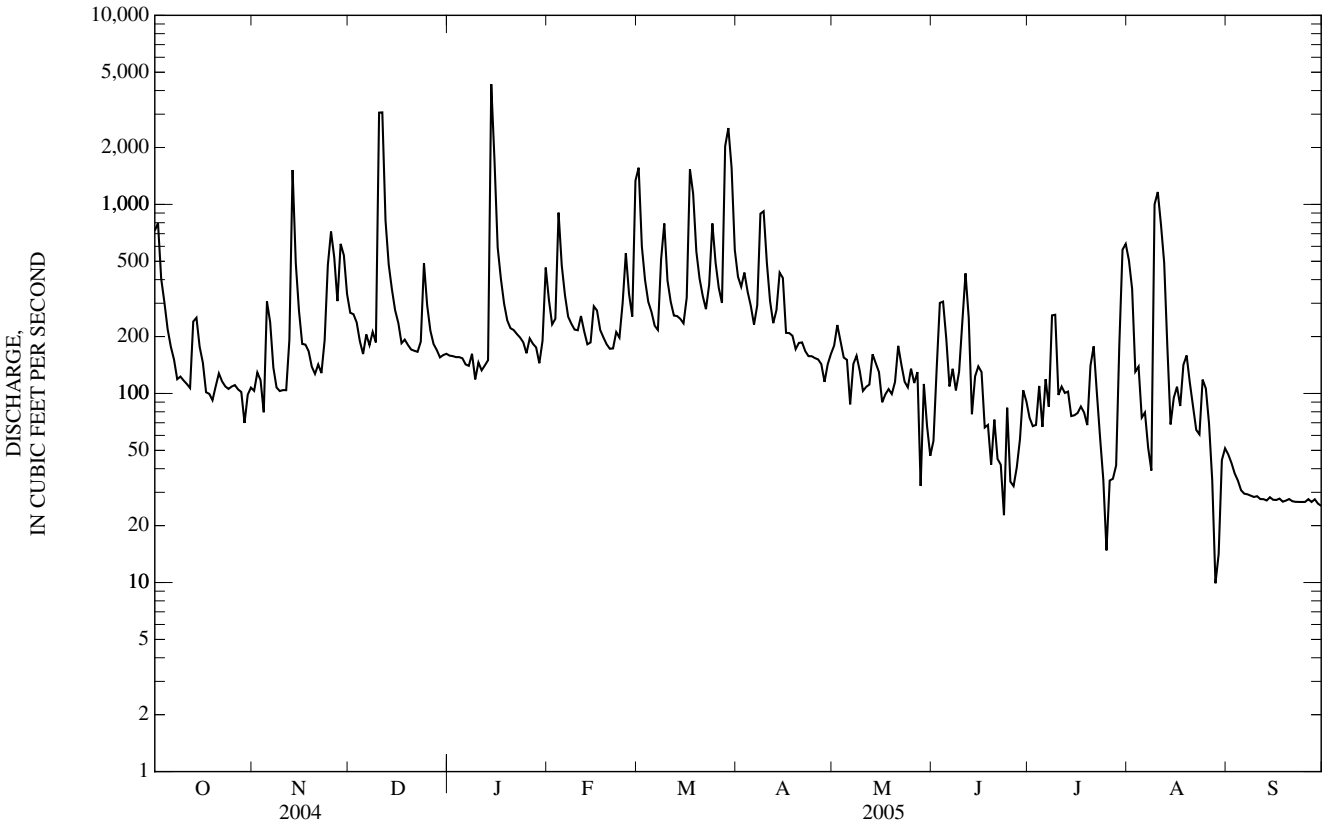
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1923 - 2005, BY WATER YEAR (WY)

MEAN	211	217	345	544	643	646	496	288	216	220	206	255
MAX	1,193	1,237	1,050	1,660	1,642	1,842	1,493	944	978	1,434	896	1,934
(WY)	(1991)	(1986)	(1933)	(1937)	(1979)	(1975)	(2003)	(1978)	(1982)	(1975)	(1939)	(1928)
MIN	8.69	14.1	39.1	40.8	119	144	97.8	45.6	48.1	36.5	32.4	17.7
(WY)	(1942)	(1942)	(1934)	(1942)	(2002)	(1967)	(2002)	(2002)	(1933)	(1986)	(1956)	(1954)

02100500 DEEP RIVER AT RAMSEUR, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1923 - 2005	
ANNUAL TOTAL	111,164		96,655.9			
ANNUAL MEAN	304		265		356	
HIGHEST ANNUAL MEAN					875	2003
LOWEST ANNUAL MEAN					116	2002
HIGHEST DAILY MEAN	5,440	Sep 28	4,330	Jan 14	27,800	Sep 18, 1945
LOWEST DAILY MEAN	36	Aug 29	9.9	Aug 28	0.70	Nov 29, 1941
ANNUAL SEVEN-DAY MINIMUM	45	Aug 23	27	Sep 24	3.6	Oct 19, 1941
MAXIMUM PEAK FLOW			7,640	Jan 14	43,000*	Sep 18, 1945
MAXIMUM PEAK STAGE			12.88	Jan 14	34.04*	Sep 18, 1945
INSTANTANEOUS LOW FLOW			9.2	Aug 28	0.40*	May 27, 1941
ANNUAL RUNOFF (CFSM)	0.870		0.759		1.02	
ANNUAL RUNOFF (INCHES)	11.85		10.30		13.85	
10 PERCENT EXCEEDS	526		498		685	
50 PERCENT EXCEEDS	168		158		151	
90 PERCENT EXCEEDS	73		35		36	

* See REMARKS.



0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC

LOCATION.--Lat 35°48'25", long 79°31'39", Chatham County, Hydrologic Unit 03030003, on right bank at downstream side of culvert on Secondary Road 1300, and 5.5 mi west of Crutchfield Crossroads.

DRAINAGE AREA.--7.42 mi^2.

REVISIONS.--WDR NC-98-1(M).

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 620 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurred several days in Aug. 1988, July, Aug. 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.7	1.4	4.5	1.3	4.9	29	7.4	3.8	0.87	0.52	5.7	1.4
2	50	1.4	3.5	1.3	4.0	9.9	9.5	2.3	4.5	0.43	2.6	1.4
3	17	1.5	2.7	1.3	23	6.9	6.9	1.9	4.0	0.46	1.5	1.4
4	5.9	4.1	2.2	1.2	19	5.8	4.9	1.7	2.3	0.46	1.0	1.3
5	3.2	4.2	1.8	1.3	7.7	4.9	4.3	1.5	1.7	1.9	0.72	1.2
6	2.0	1.8	2.0	1.4	5.8	4.2	3.8	1.8	1.4	1.0	0.65	1.0
7	1.6	1.3	7.6	1.3	4.9	4.0	9.6	1.8	1.3	0.69	1.5	1.0
8	1.2	1.1	3.2	1.4	4.2	41	24	1.5	1.1	5.2	1.1	1.0
9	1.0	0.87	3.9	1.2	3.9	17	14	1.3	0.94	1.2	11	1.0
10	1.0	0.84	78	1.1	4.0	7.9	5.7	1.3	1.2	0.59	4.7	1.0
11	0.96	0.87	27	1.2	3.4	6.5	4.4	1.4	1.1	0.47	2.4	1.0
12	1.1	16	8.5	1.1	2.9	6.0	3.8	1.5	1.0	0.47	1.7	1.0
13	36	30	5.2	3.3	2.9	6.4	6.6	2.2	0.98	0.48	1.0	1.0
14	7.4	5.5	3.8	205	5.3	5.9	18	1.6	0.99	0.77	0.71	1.1
15	2.2	3.2	2.6	34	7.4	4.9	5.9	1.5	0.93	0.62	0.64	1.1
16	1.6	2.1	2.0	12	6.5	30	4.2	1.5	0.70	0.53	0.59	1.1
17	1.0	1.7	1.8	7.6	5.5	72	3.4	1.3	0.56	0.47	2.4	0.83
18	0.83	1.5	1.7	5.7	4.0	30	3.1	1.1	0.54	0.40	1.3	0.46
19	0.83	1.4	1.7	4.9	3.3	12	2.9	1.0	0.51	0.34	0.95	0.33
20	1.5	1.2	1.5	4.5	3.3	9.4	2.7	1.3	0.47	11	13	0.38
21	1.5	1.1	1.3	4.5	4.0	7.2	2.4	1.4	e0.46	1.9	11	0.44
22	1.5	1.0	1.4	4.0	4.1	6.0	2.3	1.2	e0.40	0.73	3.2	0.66
23	1.4	25	3.6	3.7	3.5	21	2.2	2.5	e0.37	0.46	7.2	0.65
24	1.4	34	3.6	3.2	18	10	e2.1	1.5	e0.34	0.33	3.3	0.63
25	1.6	21	2.1	3.2	8.4	6.9	e2.0	1.8	e0.32	0.29	2.2	0.55
26	1.3	6.2	2.2	3.6	5.3	5.7	e1.9	1.5	e0.31	0.25	1.9	0.43
27	1.3	4.0	1.8	3.3	4.4	5.3	1.9	1.2	e0.30	0.21	1.6	0.41
28	1.1	48	1.5	2.7	65	144	e1.8	1.0	0.57	0.50	1.4	0.40
29	1.3	10	1.4	2.6	---	44	1.7	1.0	0.81	17	1.3	0.38
30	1.7	4.7	1.3	12	---	14	2.0	1.0	0.65	5.5	1.1	0.35
31	1.6	---	1.3	7.7	---	8.7	---	0.88	---	38	1.2	---
TOTAL	161.72	236.98	186.7	342.6	238.6	586.5	165.4	48.28	31.62	93.17	90.56	24.90
MEAN	5.22	7.90	6.02	11.1	8.52	18.9	5.51	1.56	1.05	3.01	2.92	0.83
MAX	50	48	78	205	65	144	24	3.8	4.5	38	13	1.4
MIN	0.83	0.84	1.3	1.1	2.9	4.0	1.7	0.88	0.30	0.21	0.59	0.33
CFSM	0.70	1.06	0.81	1.49	1.15	2.55	0.74	0.21	0.14	0.41	0.39	0.11
IN.	0.81	1.19	0.94	1.72	1.20	2.94	0.83	0.24	0.16	0.47	0.45	0.12

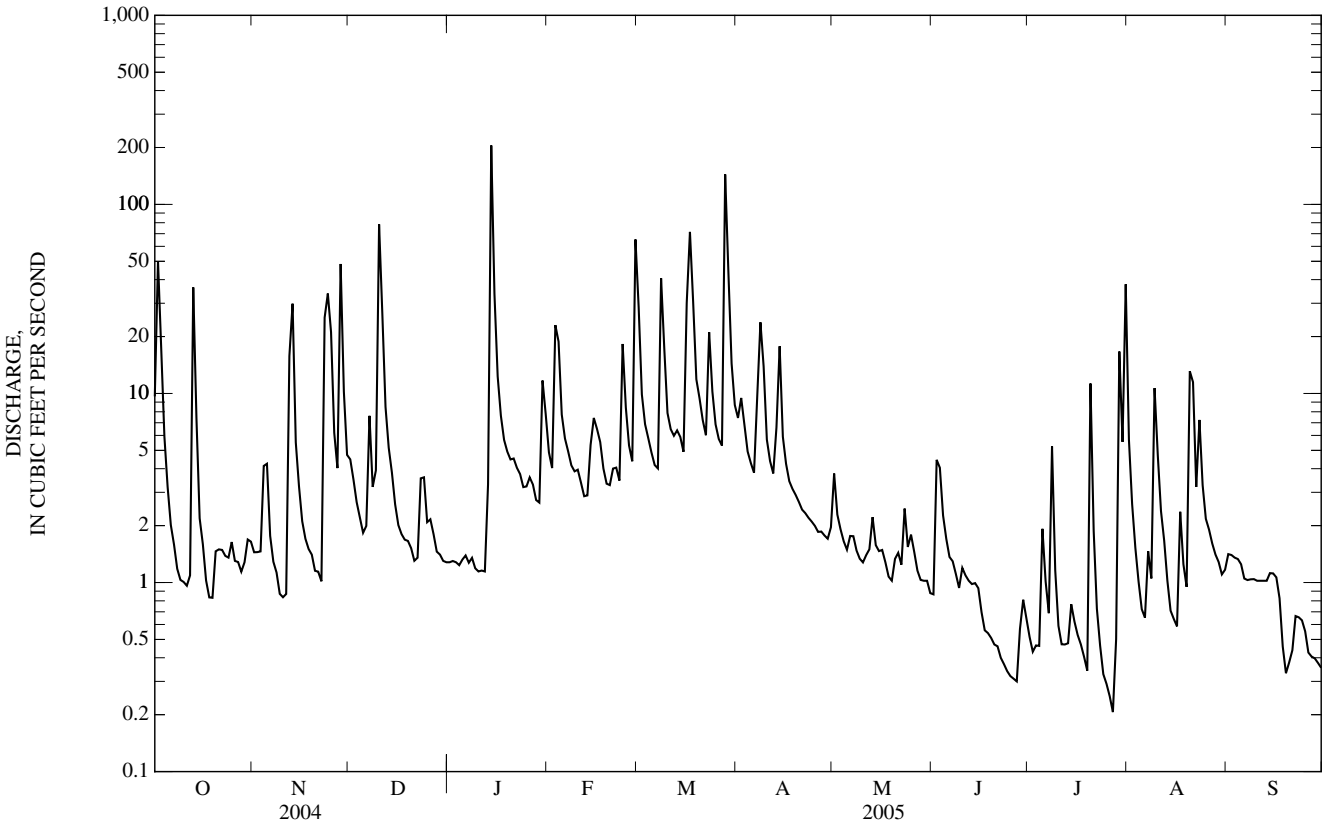
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	5.74	5.16	6.05	12.5	12.9	16.8	10.1	5.27	3.71	3.54	3.41	5.19
MAX	18.7	18.2	25.3	37.3	32.9	42.4	36.9	19.2	20.5	14.8	28.7	23.7
(WY)	(2003)	(1996)	(2003)	(1998)	(1998)	(2003)	(2003)	(1990)	(1995)	(1989)	(2003)	(1996)
MIN	0.28	0.17	0.46	2.33	2.26	4.46	1.80	0.54	0.37	0.10	0.33	0.25
(WY)	(1999)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1998)	(2001)

0210166029 ROCKY RIVER NEAR CRUTCHFIELD CROSSROADS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	1,908.06		2,207.03			
ANNUAL MEAN	5.21		6.05		7.57	
HIGHEST ANNUAL MEAN					20.5	2003
LOWEST ANNUAL MEAN					2.06	2002
HIGHEST DAILY MEAN	88	Sep 8	205	Jan 14	531	Sep 6, 1996
LOWEST DAILY MEAN	0.35	Aug 23	0.21	Jul 27	0.00	Aug 20, 1988
ANNUAL SEVEN-DAY MINIMUM	0.45	Aug 22	0.36	Jun 21	0.00	Jul 17, 2002
MAXIMUM PEAK FLOW			468	Jan 14	1,670	Sep 6, 1996
MAXIMUM PEAK STAGE			6.91	Jan 14	11.91	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.17	Jul 28	0.00	Aug 19, 1988
ANNUAL RUNOFF (CFSM)	0.703		0.815		1.02	
ANNUAL RUNOFF (INCHES)	9.57		11.06		13.87	
10 PERCENT EXCEEDS	10		11		14	
50 PERCENT EXCEEDS	2.5		1.8		2.2	
90 PERCENT EXCEEDS	0.79		0.55		0.33	

e Estimated.



02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC

LOCATION.--Lat 35°39'35", long 79°24'06", Chatham County, Hydrologic Unit 03030003, on right bank 200 ft upstream from bridge on U.S. Highway 421, 1.5 mi east of Mount Vernon Springs, and 4 mi upstream from mouth.

DRAINAGE AREA.--15.5 mi^2

PERIOD OF RECORD.--June 1958 to September 1981, January 1994 to current year.

GAGE.--Water-stage recorder and v-notch sharp-crested weir. Datum of gage is 455 ft above NGVD of 1929, by barometer. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 2,200 ft^3/s, on basis of contracted-opening measurement of peak flow. No flow occurs at times most years. Minimum discharge for current water year also occurred Aug. 10, 11, 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	6.9	9.1	4.5	11	49	16	6.3	0.65	0.18	7.3	0.29
2	531	6.7	7.5	4.6	8.8	24	19	4.6	3.2	0.15	2.3	0.21
3	36	7.1	6.5	4.6	32	17	14	3.6	4.8	0.15	1.1	0.15
4	16	13	5.9	4.9	34	14	9.7	3.3	3.1	0.17	0.68	0.10
5	9.5	11	5.3	4.6	17	12	8.5	2.9	1.9	0.16	0.44	0.06
6	6.9	7.6	4.9	4.6	13	10	7.7	3.0	1.4	0.16	0.28	0.03
7	5.5	6.8	7.1	4.6	11	9.6	8.4	3.2	1.3	1.4	0.20	0.02
8	4.7	6.7	6.3	4.9	11	115	22	3.0	8.3	8.5	0.67	0.01
9	4.1	4.6	5.3	5.1	9.8	39	43	3.0	8.0	1.3	1.2	0.01
10	3.8	2.8	55	4.8	9.6	22	15	2.4	9.5	0.60	1.6	0.01
11	3.4	2.6	22	4.8	8.0	17	11	2.3	4.3	0.36	0.82	0.00
12	3.1	8.2	12	5.1	7.3	15	8.8	2.2	2.4	0.30	0.50	0.00
13	64	15	9.1	14	7.0	12	35	2.2	1.9	0.24	0.36	0.00
14	17	5.6	7.1	487	9.3	21	52	2.7	1.9	0.27	0.49	0.00
15	11	4.1	5.8	51	14	15	18	2.4	1.4	0.32	0.47	0.00
16	8.1	3.8	5.5	25	11	90	11	2.2	1.1	0.34	0.40	0.00
17	5.8	3.9	5.5	17	10	186	9.2	2.0	0.75	0.32	3.9	0.00
18	4.9	3.9	5.4	12	8.3	54	8.1	1.6	0.57	0.60	1.8	0.00
19	4.4	3.9	5.5	10	7.3	28	7.3	1.7	0.46	1.7	0.94	0.00
20	4.2	4.1	5.2	9.9	7.1	21	6.8	2.0	0.43	1.1	0.60	0.00
21	4.1	4.3	4.5	10	9.3	17	5.6	3.1	0.36	0.45	0.56	0.00
22	4.0	4.4	4.8	8.8	9.7	14	5.0	2.0	0.31	2.9	0.45	0.00
23	3.7	29	11	7.9	8.3	26	5.2	1.8	0.27	6.9	0.37	0.00
24	3.6	24	14	6.2	34	19	5.0	1.4	0.23	1.4	0.45	0.00
25	3.9	12	7.7	6.5	24	14	4.4	1.2	0.20	0.75	0.48	0.00
26	3.7	7.2	6.2	7.3	14	12	4.1	1.2	0.20	0.40	0.46	0.00
27	3.4	6.1	5.5	6.6	11	12	4.2	1.1	0.18	0.23	0.45	0.00
28	3.8	63	4.8	6.0	156	188	3.8	0.98	0.19	0.16	0.39	0.00
29	4.4	17	4.8	6.5	---	47	3.7	0.88	0.28	0.47	0.28	0.00
30	5.9	11	4.9	22	---	22	4.4	0.76	0.23	0.39	0.22	0.00
31	7.6	---	4.6	18	---	16	---	0.72	---	13	0.28	---
TOTAL	839.5	306.3	268.8	788.8	512.8	1,157.6	375.9	71.74	59.81	45.37	30.44	0.89
MEAN	27.1	10.2	8.67	25.4	18.3	37.3	12.5	2.31	1.99	1.46	0.98	0.03
MAX	531	63	55	487	156	188	52	6.3	9.5	13	7.3	0.29
MIN	3.1	2.6	4.5	4.5	7.0	9.6	3.7	0.72	0.18	0.15	0.20	0.00
CFSM	1.75	0.66	0.56	1.64	1.18	2.41	0.81	0.15	0.13	0.09	0.06	0.00
IN.	2.01	0.74	0.65	1.89	1.23	2.78	0.90	0.17	0.14	0.11	0.07	0.00

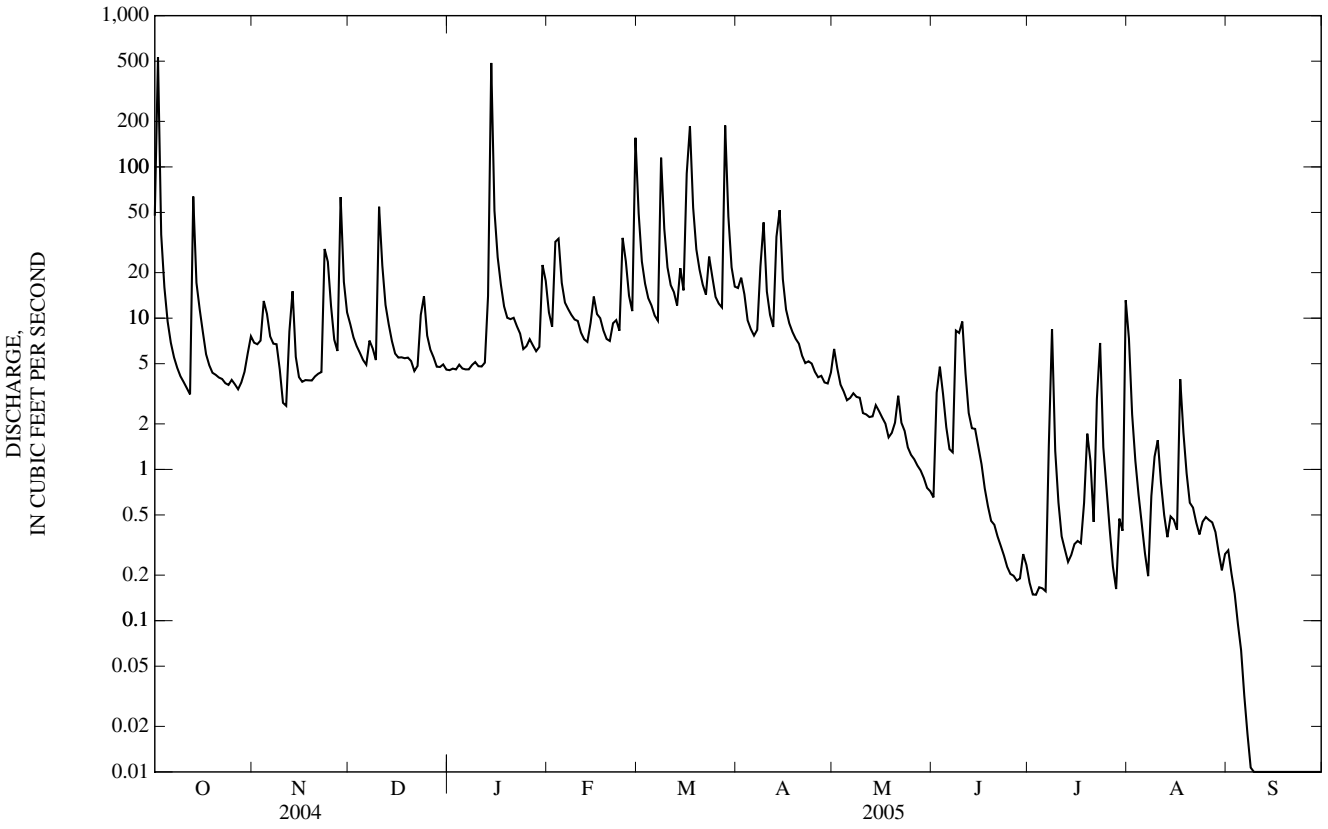
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005,@ BY WATER YEAR (WY)

MEAN	8.20	6.82	11.4	25.2	31.2	30.1	18.3	9.11	7.06	7.98	7.62	7.55
MAX	56.6	33.0	53.4	80.4	81.0	74.8	67.1	39.1	48.0	66.6	55.3	75.2
(WY)	(1972)	(1980)	(1973)	(1978)	(1960)	(1998)	(2003)	(1978)	(1973)	(1975)	(1964)	(1996)
MIN	0.00	0.16	0.59	1.27	5.11	4.80	2.45	0.38	0.02	0.04	0.00	0.00
(WY)	(1964)	(1974)	(2002)	(1981)	(2001)	(1981)	(1981)	(2002)	(2002)	(2002)	(1977)	(1980)

02101800 TICK CREEK NEAR MOUNT VERNON SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005[@]	
ANNUAL TOTAL	4,035.39		4,457.95			
ANNUAL MEAN	11.0		12.2		14.3	
HIGHEST ANNUAL MEAN					29.5	2003
LOWEST ANNUAL MEAN					3.84	1981
HIGHEST DAILY MEAN	531	Oct 2	531	Oct 2	1,570	Sep 6, 1996
LOWEST DAILY MEAN	0.01	Aug 9	0.00	Sep 11	0.00	Sep 2, 1962
ANNUAL SEVEN-DAY MINIMUM	0.02	Aug 6	0.00	Sep 11	0.00	Sep 2, 1962
MAXIMUM PEAK FLOW			2,370	Oct 2	4,010*	Sep 6, 1996
MAXIMUM PEAK STAGE			8.57	Oct 2	13.41	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.00*	Sep 12	0.00*	Sep 2, 1962
ANNUAL RUNOFF (CFSM)	0.711		0.788		0.923	
ANNUAL RUNOFF (INCHES)	9.68		10.70		12.54	
10 PERCENT EXCEEDS	17		21		25	
50 PERCENT EXCEEDS	5.0		4.6		3.7	
90 PERCENT EXCEEDS	0.31		0.19		0.11	

[@] See PERIOD OF RECORD.
* See REMARKS.



02102000 DEEP RIVER AT MONCURE, NC

LOCATION.--Lat 35°37'37", long 79°06'58", Lee County, Hydrologic Unit 03030003, on right bank 1.0 mi upstream from Lockville Dam, 1.2 mi upstream from bridge on U.S. Highway 1, 1.5 mi northwest of Moncure, 2.2 mi downstream of Rocky River, and 4.5 mi upstream from confluence with Haw River.

DRAINAGE AREA.--1,434 mi^2.

PERIOD OF RECORD.--July 1930 to current year. Records for May 1898 to December 1899 published in 21st Annual Report, Part 4, and in Bulletins 34 and 39 of North Carolina Department of Conservation and Development have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 1082: (1930-46 not previously published). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 185.06 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records above 250 ft^3/s are fair. Records below 250 ft^3/s, and those for estimated daily discharges, are poor. Diurnal fluctuation and some regulation at low flow caused by small power plants upstream from station.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,620	213	1,020	384	1,370	8,810	2,190	532	213	e160	2,560	e82
2	3,430	231	735	386	1,090	4,740	2,030	627	238	e141	1,390	e77
3	2,630	232	641	373	897	2,310	2,150	684	1,500	e126	848	e71
4	1,400	240	599	363	2,730	1,530	1,760	633	1,250	e122	568	e66
5	932	295	542	366	2,860	1,190	1,350	538	796	e140	329	e61
6	640	294	459	364	1,730	1,010	1,100	475	613	260	e200	e62
7	492	473	407	368	1,170	893	1,000	467	420	e228	e111	e62
8	406	383	465	390	923	1,810	1,330	425	537	e614	e104	e61
9	302	295	491	324	781	4,530	7,140	413	849	977	e147	e59
10	282	246	1,640	364	725	2,950	4,900	455	1,480	e299	732	e57
11	278	229	6,170	350	652	1,730	2,210	410	2,590	e361	1,740	e55
12	278	234	4,970	293	631	1,280	1,520	513	1,260	266	1,170	e54
13	775	383	2,030	337	616	1,070	2,480	434	806	250	e700	e51
14	2,610	1,610	1,210	10,100	530	1,040	6,760	392	511	e288	e380	e46
15	1,240	1,190	876	14,500	577	1,370	4,990	446	360	241	e220	e54
16	680	655	692	10,800	735	1,730	2,410	409	283	e245	e175	e46
17	491	455	576	2,630	847	11,500	1,540	386	e235	e251	e162	e50
18	383	368	533	1,490	694	10,600	1,120	350	e226	e303	e181	e54
19	301	355	446	1,100	602	4,700	1,010	284	e213	e245	e181	e62
20	291	330	440	846	527	2,510	904	304	e179	e234	e157	e70
21	229	289	435	782	498	1,810	794	320	e160	e205	e152	e91
22	236	257	405	742	508	1,410	740	342	e147	e192	269	e113
23	258	346	411	684	565	1,390	687	382	e138	1,530	e223	e92
24	263	970	579	630	1,140	2,030	625	370	e133	373	e177	e78
25	249	1,250	870	531	2,830	2,190	569	330	e127	e157	e200	e67
26	245	1,270	863	521	2,240	1,650	550	278	e117	e121	e142	e62
27	266	1,130	598	513	1,360	1,270	532	278	e115	e101	e115	e60
28	229	1,890	498	493	4,260	4,230	524	263	133	e102	e102	e68
29	221	2,480	440	476	---	10,500	501	273	180	1,380	e99	e72
30	234	1,660	411	564	---	6,010	476	225	e209	555	e95	e68
31	226	---	387	1,130	---	3,280	---	185	---	2,110	e88	---
TOTAL	24,117	20,253	30,839	53,194	34,088	103,073	55,892	12,423	16,018	12,577	13,717	1,971
MEAN	778	675	995	1,716	1,217	3,325	1,863	401	534	406	442	65.7
MAX	3,620	2,480	6,170	14,500	4,260	11,500	7,140	684	2,590	2,110	2,560	113
MIN	221	213	387	293	498	893	476	185	115	101	88	46
CFSM	0.54	0.47	0.69	1.20	0.85	2.32	1.30	0.28	0.37	0.28	0.31	0.05
IN.	0.63	0.53	0.80	1.38	0.88	2.67	1.45	0.32	0.42	0.33	0.36	0.05

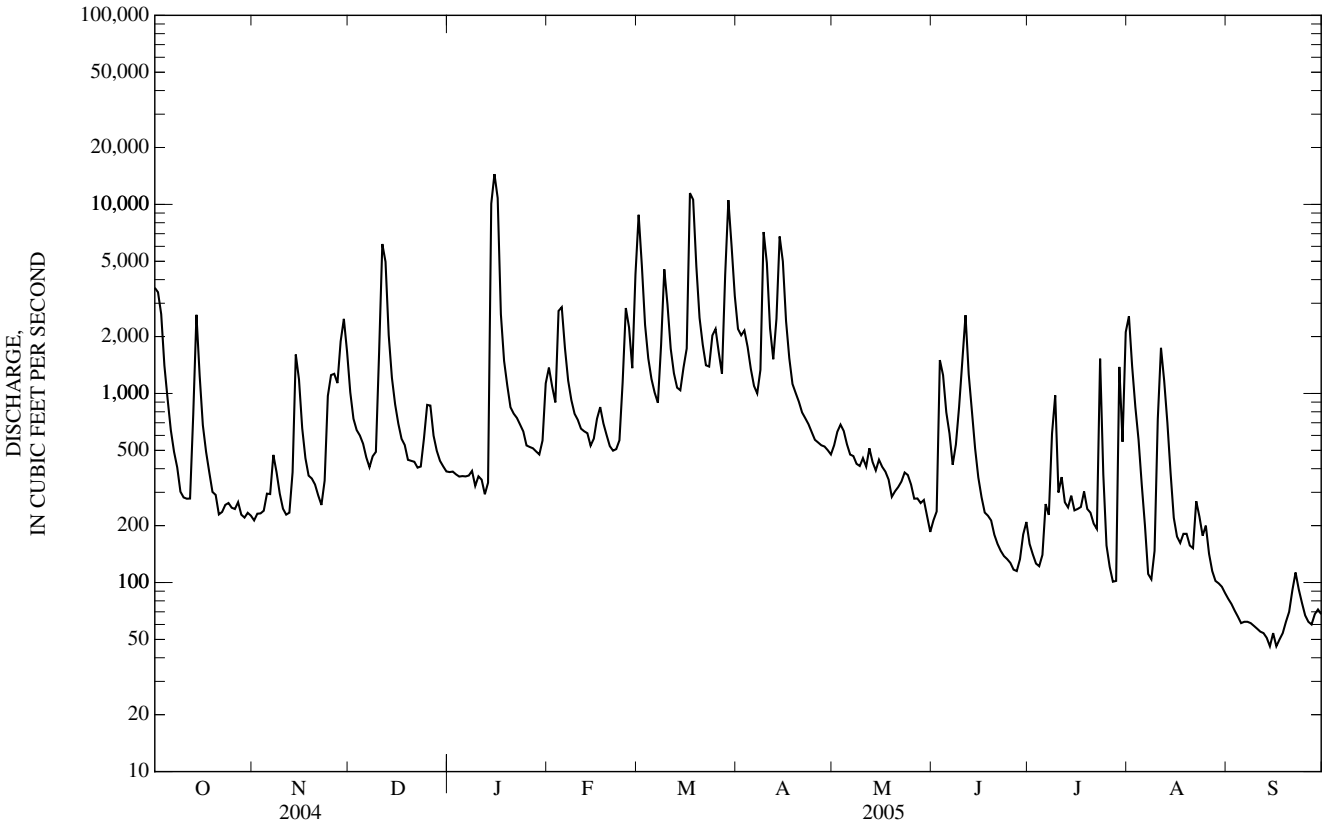
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	740	835	1,304	2,351	2,822	2,866	2,062	1,103	785	828	826	829
MAX	3,590	4,789	4,765	7,182	7,945	7,582	6,455	3,590	4,147	5,528	3,861	10,580
(WY)	(1965)	(1986)	(1973)	(1978)	(1960)	(1998)	(1936)	(1989)	(1982)	(1975)	(1931)	(1945)
MIN	28.2	14.1	34.6	130	424	566	393	125	68.6	79.7	46.9	24.1
(WY)	(1931)	(1942)	(1934)	(1934)	(1931)	(1981)	(1981)	(2002)	(2002)	(1986)	(2002)	(1968)

02102000 DEEP RIVER AT MONCURE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	373,341		378,162			
ANNUAL MEAN	1,020		1,036		1,441	
HIGHEST ANNUAL MEAN					2,999	2003
LOWEST ANNUAL MEAN					391	2002
HIGHEST DAILY MEAN	13,000	Sep 9	14,500	Jan 15	66,400	Sep 18, 1945
LOWEST DAILY MEAN	105	Aug 12	46	Sep 14	6.0	Oct 9, 1954
ANNUAL SEVEN-DAY MINIMUM	144	Aug 7	51	Sep 12	6.6	Oct 8, 1954
MAXIMUM PEAK FLOW			19,000	Jan 14	80,300	Sep 18, 1945
MAXIMUM PEAK STAGE			8.37	Jan 14	17.20	Sep 18, 1945
INSTANTANEOUS LOW FLOW			NOT DETERMINED		5.5	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	0.711		0.722		1.00	
ANNUAL RUNOFF (INCHES)	9.68		9.81		13.65	
10 PERCENT EXCEEDS	2,360		2,270		3,300	
50 PERCENT EXCEEDS	537		467		533	
90 PERCENT EXCEEDS	213		108		98	

e Estimated.



02102192 BUCKHORN CREEK NEAR CORINTH, NC

LOCATION.--Lat 35°33'35", long 78°58'25", Chatham County, Hydrologic Unit 03030004, on left bank at upstream side of bridge on State Highway 42, 0.2 mi downstream of White Oak Creek, 1.2 mi downstream of Harris Lake, and 2 mi east of Corinth.

DRAINAGE AREA.--76.3 mi^2.

PERIOD OF RECORD.--June 1972 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 154.63 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Since Dec. 1, 1980, considerable regulation by Harris Lake (station 02102190). Maximum discharge prior to regulation: 6,920 ft^3/s, Feb. 2, 1973; gage height: 20.02 ft. Minimum discharge prior to regulation: 0.01 ft^3/s, Sept. 2, 1976. Minimum discharge for period of record also occurred Sept. 10-13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	8.4	12	4.3	35	131	116	25	0.86	0.32	0.51	0.27
2	45	9.3	10	4.1	33	123	110	24	2.1	0.28	0.23	0.28
3	42	9.4	8.8	3.7	41	114	105	22	1.7	1.0	0.20	0.27
4	38	11	7.3	3.3	60	102	95	20	1.2	0.35	0.20	0.24
5	34	12	6.1	3.0	58	95	85	18	1.0	0.26	0.22	0.19
6	26	8.5	5.5	2.9	55	84	74	26	0.85	0.23	0.20	0.13
7	21	9.2	6.3	4.6	51	75	67	19	0.97	0.23	0.19	0.09
8	17	10	6.4	2.6	48	114	70	17	1.0	0.77	0.20	0.08
9	14	8.3	6.8	3.3	45	139	107	15	0.81	0.26	0.25	0.06
10	12	6.0	16	2.8	44	131	93	12	0.86	0.19	0.27	0.06
11	11	5.6	15	2.2	38	119	84	11	0.77	0.18	0.24	0.06
12	8.2	7.6	14	1.8	34	109	76	9.5	0.71	0.18	0.21	0.06
13	7.4	16	13	2.0	31	100	124	8.7	0.65	0.19	0.20	0.06
14	7.5	8.6	12	62	30	104	140	6.5	0.68	0.20	0.18	0.07
15	6.9	5.2	11	48	30	96	133	5.5	0.60	0.18	0.17	0.08
16	6.0	5.0	7.4	67	28	128	115	6.5	0.55	0.16	0.16	0.10
17	6.8	5.5	6.6	68	28	282	95	4.4	0.51	0.15	0.41	0.21
18	5.1	6.4	6.2	62	25	284	84	3.1	0.47	0.16	0.22	0.18
19	5.0	6.5	6.1	54	22	261	74	2.2	0.44	0.26	0.23	0.14
20	6.6	6.5	7.2	50	20	238	66	2.7	0.49	0.26	0.31	0.20
21	6.3	6.9	3.4	47	21	218	59	4.1	0.45	0.18	0.30	1.00
22	6.2	7.0	3.3	42	21	197	52	1.8	0.41	0.22	0.26	0.37
23	6.6	12	5.8	44	20	203	45	1.5	0.44	0.55	0.36	0.32
24	6.3	13	10	33	41	206	38	2.3	0.43	0.21	0.42	0.33
25	7.5	14	6.9	30	53	190	32	1.7	0.39	0.21	0.40	0.32
26	7.4	11	9.0	28	50	172	28	1.1	0.40	0.20	0.34	0.31
27	7.3	9.8	6.5	28	49	155	26	1.0	0.40	0.18	0.33	0.35
28	8.4	18	5.0	24	110	147	23	0.94	0.43	0.20	0.30	0.32
29	9.1	14	4.6	21	---	146	21	0.91	0.79	0.65	0.31	0.25
30	11	12	5.0	35	---	133	20	0.86	0.56	0.44	0.31	0.22
31	9.6	---	4.4	37	---	123	---	0.87	---	0.42	0.32	---
TOTAL	455.2	282.7	247.6	820.6	1,121	4,719	2,257	275.18	21.92	9.27	8.45	6.62
MEAN	14.7	9.42	7.99	26.5	40.0	152	75.2	8.88	0.73	0.30	0.27	0.22
MAX	50	18	16	68	110	284	140	26	2.1	1.0	0.51	1.0
MIN	5.0	5.0	3.3	1.8	20	75	20	0.86	0.39	0.15	0.16	0.06
CFSM	0.19	0.12	0.10	0.35	0.52	2.00	0.99	0.12	0.01	0.00	0.00	0.00
IN.	0.22	0.14	0.12	0.40	0.55	2.30	1.10	0.13	0.01	0.00	0.00	0.00

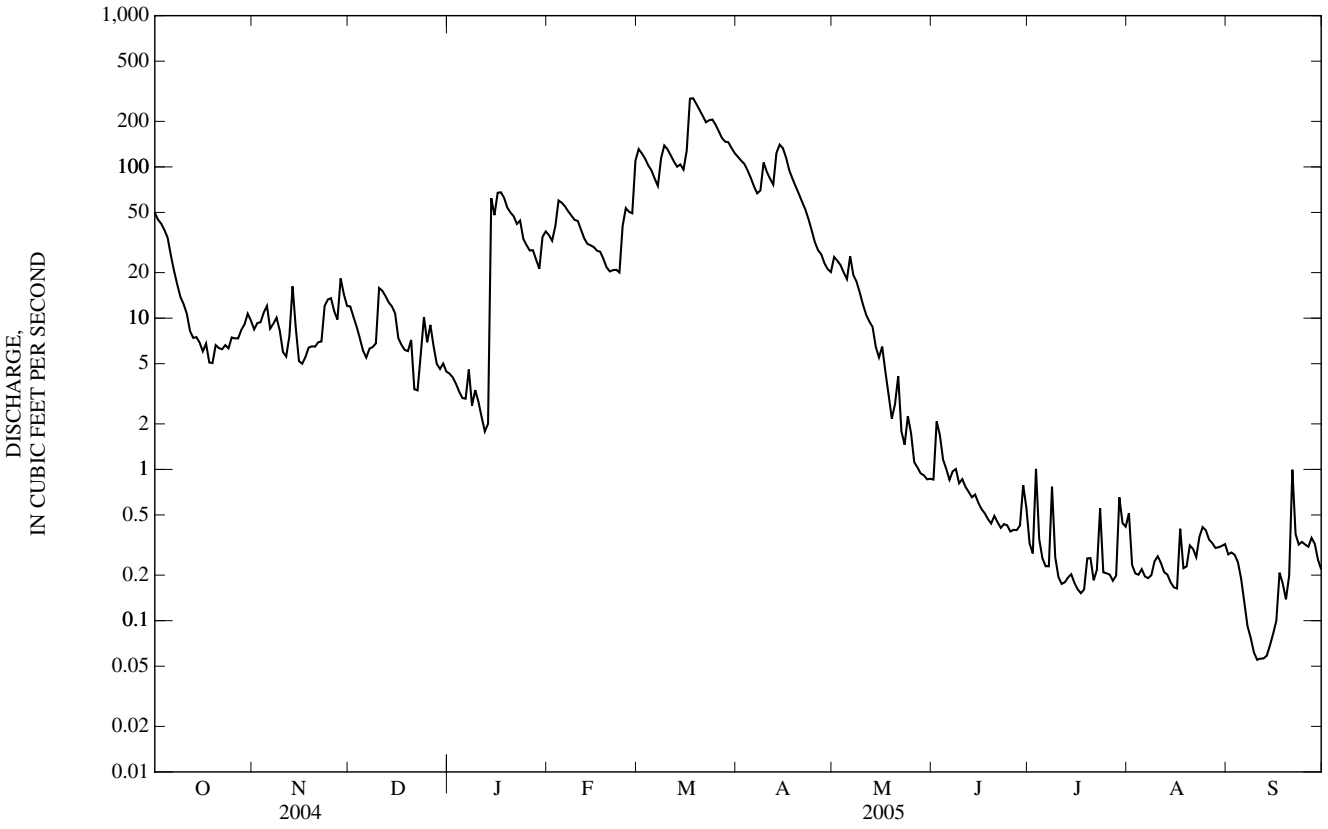
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005,@ BY WATER YEAR (WY)

MEAN	19.5	22.7	35.9	64.7	101	133	91.9	39.6	27.0	26.2	34.1	30.6
MAX	137	146	154	241	348	421	312	184	138	182	242	335
(WY)	(2000)	(1996)	(2003)	(1984)	(1998)	(1998)	(1993)	(1989)	(1984)	(2001)	(2003)	(1996)
MIN	0.70	0.81	1.40	2.07	1.37	1.66	1.13	1.48	0.67	0.30	0.27	0.22
(WY)	(1982)	(1992)	(1992)	(2001)	(1992)	(1992)	(1992)	(2002)	(1981)	(2005)	(2005)	(2005)

02102192 BUCKHORN CREEK NEAR CORINTH, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1981 - 2005[@]	
ANNUAL TOTAL	15,702.9		10,224.54			
ANNUAL MEAN	42.9		28.0		51.9	
HIGHEST ANNUAL MEAN					137	2003
LOWEST ANNUAL MEAN					2.47	1981
HIGHEST DAILY MEAN	200	May 3	284	Mar 18	1,940	Sep 6, 1996
LOWEST DAILY MEAN	2.3	Aug 11	0.06	Sep 9	0.06	Jun 22, 2002
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 7	0.06	Sep 8	0.06	Sep 8, 2005
MAXIMUM PEAK FLOW			303	Mar 17	4,300	Sep 6, 1996
MAXIMUM PEAK STAGE			4.18	Mar 17	16.79	Sep 6, 1996
INSTANTANEOUS LOW FLOW			0.05*	Sep 9	0.05*	May 10, 1988
ANNUAL RUNOFF (CFSM)	0.562		0.367		0.681	
ANNUAL RUNOFF (INCHES)	7.66		4.98		9.25	
10 PERCENT EXCEEDS	116		98		153	
50 PERCENT EXCEEDS	23		6.6		9.1	
90 PERCENT EXCEEDS	6.3		0.20		0.68	

[@] Regulated period only (1981-2005). See REMARKS.
* See REMARKS.



02102500 CAPE FEAR RIVER AT LILLINGTON, NC

LOCATION.--Lat 35°24'22", long 78°48'48", Harnett County, Hydrologic Unit 03030004, on right bank 60 ft downstream of downstream bridge on U.S. Highway 401, 1,860 ft downstream of Southern Railway bridge, 0.5 mi north of Lillington, 1 mile downstream of Neal Creek, and at mile 178.

DRAINAGE AREA.--3,464 mi^2.

PERIOD OF RECORD.--December 1923 to current year.

REVISED RECORDS.--WSP 1002: 1930(M). WSP 1032: 1942(m). WSP 1303: 1944(M). WSP 1333: 1945. WSP 1383:

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above NGVD of 1929. Dec. 6, 1923, to Oct. 7, 1927, nonrecording gage and Oct. 8, 1927, to Dec. 2, 1975, water-stage recorder at site 60 ft upstream in bridge pier at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some regulation at high flows, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since Sept. 1981 by B. Everett Jordan Lake (station 02098197). Diurnal fluctuation and slight regulation at low flow caused by power plants upstream from station. Fluctuation and regulation by Buckhorn Reservoir, 13 mi upstream from station, ended in December 1962. Prior to regulation, maximum discharge: 150,000 ft^3/s, Sept. 19, 1945, from rating curve extended above 76,000 ft^3/s; gage height: 33.19 ft, from floodmark; minimum discharge: 11 ft^3/s, Oct. 14, 15, 1954; gage height: -0.17 ft. Minimum discharge for period of record also occurred on Aug. 7, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8,130	703	4,670	1,340	3,200	10,200	8,560	1,210	802	802	4,020	581
2	8,350	693	4,330	1,310	3,070	8,400	4,200	1,260	901	745	2,480	639
3	8,170	706	4,200	1,290	2,850	9,210	5,290	1,330	1,340	884	1,590	651
4	6,770	717	4,110	1,260	4,000	8,080	9,840	1,320	2,040	700	1,270	641
5	3,930	740	4,050	1,250	4,240	5,760	10,200	1,250	1,470	661	1,010	646
6	2,800	726	3,940	1,230	3,120	5,400	6,290	1,000	1,200	690	799	649
7	1,530	773	3,770	1,220	2,930	5,150	3,760	692	1,090	817	740	587
8	1,350	918	2,160	1,220	4,240	3,270	3,230	1,250	1,220	1,250	689	578
9	999	774	1,830	1,200	4,090	6,610	8,120	1,390	1,480	1,230	734	545
10	882	704	2,140	1,170	3,970	6,020	8,650	1,400	1,590	1,120	1,010	543
11	860	663	5,930	1,210	3,810	5,530	5,760	946	3,820	862	1,760	611
12	849	686	6,990	1,140	2,140	4,160	8,010	828	2,590	772	2,350	638
13	864	904	4,060	1,130	1,980	3,860	5,470	877	2,100	674	2,000	562
14	2,760	1,390	4,390	6,480	1,960	3,540	8,980	834	2,190	713	1,740	551
15	2,280	2,370	4,590	17,600	1,930	3,080	9,180	803	1,950	684	1,270	548
16	1,450	6,440	4,350	14,000	1,950	3,070	5,760	848	1,730	661	849	555
17	1,140	4,100	4,270	5,290	1,610	11,800	2,920	757	905	621	789	608
18	999	3,820	5,610	4,740	1,510	14,300	1,970	781	833	926	991	607
19	886	3,570	5,590	11,500	1,360	10,200	1,750	690	843	783	920	593
20	816	1,420	5,440	12,300	1,300	6,900	1,660	687	715	672	861	592
21	932	1,180	5,040	11,400	1,290	6,880	1,580	744	543	622	898	743
22	1,590	1,130	4,890	3,020	1,280	8,960	1,500	727	646	589	809	486
23	927	1,200	3,840	2,520	1,460	8,150	1,440	836	661	1,900	778	500
24	777	1,640	1,460	2,400	2,360	4,440	1,350	1,490	630	1,150	789	500
25	783	2,020	1,590	1,630	4,360	5,220	1,290	1,460	610	674	706	494
26	755	2,120	1,860	1,510	4,130	4,810	1,230	1,380	610	675	707	487
27	758	2,080	1,590	1,660	3,110	4,310	1,230	1,030	599	642	662	490
28	762	2,420	1,420	2,270	4,330	5,140	1,180	685	642	631	656	482
29	723	3,510	1,360	2,250	---	12,700	1,160	641	659	1,980	652	487
30	715	3,990	1,370	2,470	---	10,200	1,130	659	710	1,740	634	431
31	728	---	1,350	2,920	---	10,400	---	620	---	2,430	591	---
TOTAL	65,265	54,107	112,190	121,930	77,580	215,750	132,690	30,425	37,119	29,300	35,754	17,025
MEAN	2,105	1,804	3,619	3,933	2,771	6,960	4,423	981	1,237	945	1,153	568
MAX	8,350	6,440	6,990	17,600	4,360	14,300	10,200	1,490	3,820	2,430	4,020	743
MIN	715	663	1,350	1,130	1,280	3,070	1,130	620	543	589	591	431

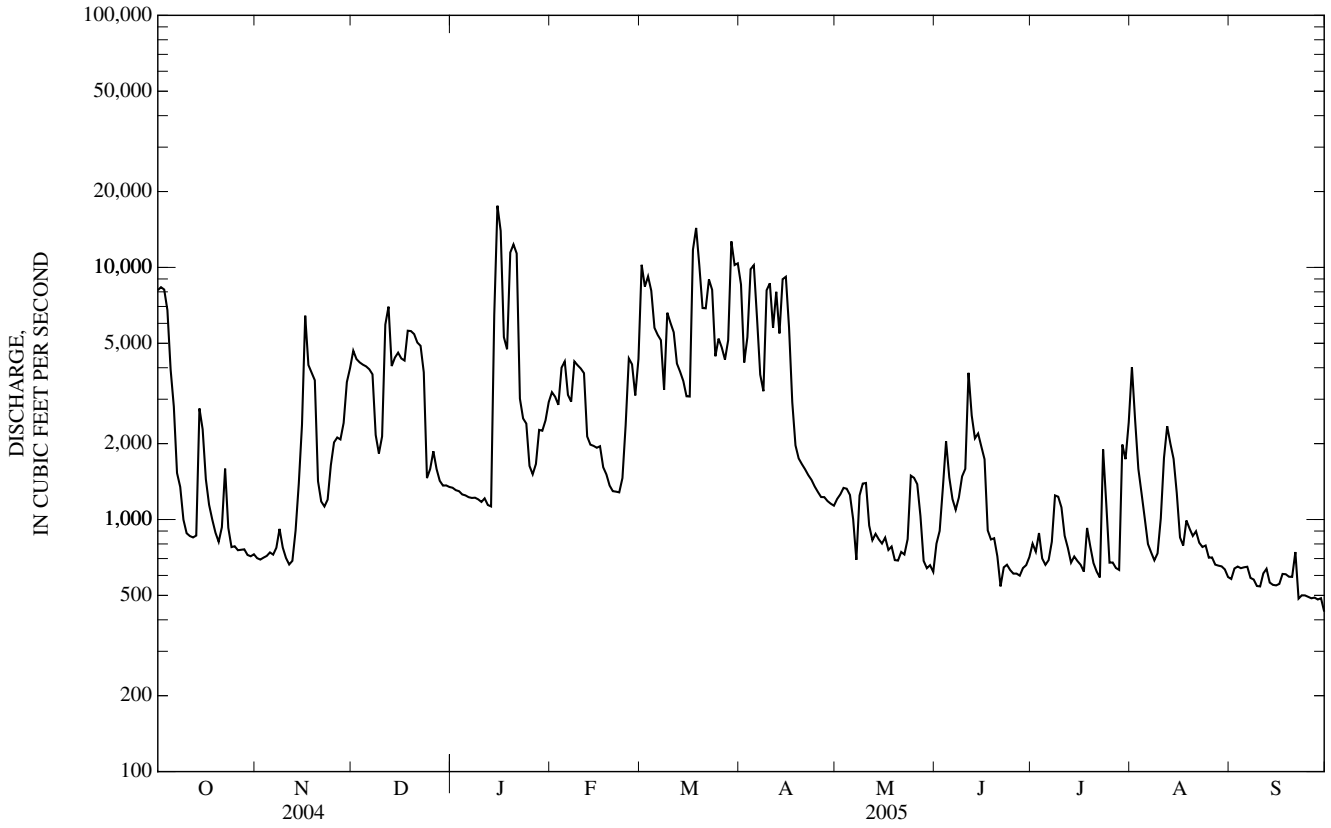
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005,* BY WATER YEAR (WY)

MEAN	2,014	2,020	2,827	4,910	6,024	7,268	5,064	2,535	2,255	1,725	1,791	2,094
MAX	6,442	7,919	8,595	11,750	16,440	15,710	14,780	7,784	12,510	5,694	7,075	13,920
(WY)	(1990)	(1986)	(1984)	(1998)	(1998)	(1993)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
MIN	621	522	612	707	1,617	1,628	969	642	551	360	274	568
(WY)	(1999)	(1999)	(2002)	(2001)	(2002)	(1988)	(1985)	(2002)	(1999)	(2002)	(2002)	(2005)

02102500 CAPE FEAR RIVER AT LILLINGTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005*	
ANNUAL TOTAL	933,085		929,135			
ANNUAL MEAN	2,549		2,546		3,363	
HIGHEST ANNUAL MEAN					7,146	2003
LOWEST ANNUAL MEAN					1,013	2002
HIGHEST DAILY MEAN	16,200	Sep 9	17,600	Jan 15	41,400	Sep 6, 1996
LOWEST DAILY MEAN	526	Aug 10	431	Sep 30	155	Aug 6, 2002
ANNUAL SEVEN-DAY MINIMUM	677	Jul 14	482	Sep 24	223	Oct 2, 1981
MAXIMUM PEAK FLOW			20,500	Jan 15	51,800	Sep 7, 1996
MAXIMUM PEAK STAGE			11.35	Jan 15	18.97	Sep 7, 1996
INSTANTANEOUS LOW FLOW			412	Sep 30	141*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	0.736		0.735		0.971	
ANNUAL RUNOFF (INCHES)	10.02		9.98		13.19	
10 PERCENT EXCEEDS	5,680		6,130		9,690	
50 PERCENT EXCEEDS	1,510		1,340		1,280	
90 PERCENT EXCEEDS	737		639		600	

* Regulated period only (1981-2005). See REMARKS.



02102908 FLAT CREEK NEAR INVERNESS, NC

LOCATION.--Lat 35°10'58", long 79°10'39", Hoke County, Hydrologic Unit 03030004, on left bank 15 ft downstream of culvert on Manchester Road, Fort Bragg military reservation, 0.4 mi upstream from mouth, and 3.6 mi east of Inverness.

DRAINAGE AREA.--7.63 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1968 to current year.

REVISED RECORDS.--WDR NC-72-1: 1968-70 (M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 191.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some diurnal fluctuation at low flow during growing season. Minimum discharge some years affected by regulation from unknown source. Minimum discharge for current water year also occurred Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	7.5	8.7	12	8.8	15	10	7.5	4.8	4.9	10	2.8
2	9.2	7.5	8.2	10	8.3	9.8	9.9	6.5	16	4.3	5.8	2.6
3	8.6	7.6	8.2	9.3	12	8.8	8.9	6.1	12	6.8	4.5	2.4
4	8.8	7.8	7.9	9.1	15	8.5	7.9	5.9	7.0	5.0	4.0	2.3
5	8.3	8.5	7.9	9.1	9.7	8.2	8.0	6.2	5.4	4.7	5.7	2.3
6	7.8	7.6	7.9	9.1	8.7	7.9	7.6	8.0	4.7	3.7	5.5	2.3
7	7.8	7.4	8.2	8.7	8.4	7.7	7.5	6.7	4.8	3.3	4.9	2.4
8	7.9	7.3	8.1	8.7	8.2	15	8.4	5.9	14	5.6	6.0	2.4
9	7.7	7.1	8.2	8.5	8.1	12	20	5.4	7.4	4.2	10	2.3
10	7.6	7.2	21	8.5	8.1	8.9	9.4	5.2	5.8	3.5	7.0	2.2
11	7.3	7.3	15	8.5	7.7	8.3	7.9	5.2	5.0	3.2	5.2	2.0
12	7.5	8.4	9.7	8.5	7.6	8.1	7.6	5.0	4.8	3.6	4.2	2.1
13	7.9	18	8.9	8.6	7.4	7.7	14	5.0	5.0	3.1	4.5	2.5
14	7.8	9.6	8.4	33	7.8	9.0	25	5.1	4.6	3.5	5.3	3.5
15	8.2	8.2	8.2	28	8.1	8.3	12	4.8	4.2	3.4	4.1	3.3
16	7.8	7.9	8.1	12	7.7	17	8.8	5.0	3.5	3.1	3.5	2.6
17	7.2	7.9	8.3	9.9	7.6	39	8.2	4.9	3.4	2.9	4.3	2.3
18	7.1	7.8	8.5	9.0	7.2	17	7.9	4.7	3.4	7.7	4.3	2.2
19	7.2	7.8	8.4	8.6	7.1	11	7.6	4.3	3.3	27	18	2.5
20	7.4	7.7	8.5	8.8	7.2	10	7.4	5.9	3.4	7.7	6.2	2.7
21	8.0	7.7	8.3	8.7	7.9	9.2	7.1	6.4	3.4	7.7	4.2	28
22	7.9	7.7	8.4	8.5	8.1	8.8	6.9	4.9	3.4	5.0	3.5	8.5
23	7.4	17	11	8.5	7.4	18	7.2	4.7	3.7	8.3	4.2	4.7
24	7.4	13	12	8.2	16	14	7.0	4.4	3.5	4.9	4.2	4.0
25	7.7	9.5	9.1	8.4	12	9.9	7.1	6.2	3.3	3.9	3.8	3.8
26	8.1	8.3	11	8.2	8.5	9.3	6.8	4.7	3.8	3.2	3.2	4.0
27	8.0	8.1	11	8.0	7.9	9.1	6.9	4.1	4.0	2.7	3.1	4.1
28	7.9	18	9.7	7.7	25	11	6.3	3.8	12	2.5	3.1	3.5
29	8.6	11	10	7.8	---	10	6.2	3.9	26	17	3.0	3.2
30	8.5	8.9	14	16	---	8.5	6.5	4.5	8.2	8.8	3.1	3.1
31	7.9	---	14	11	---	8.9	---	5.3	---	15	3.6	---
TOTAL	245.6	275.3	304.8	328.9	263.5	353.9	272.0	166.2	193.8	190.2	162.0	116.6
MEAN	7.92	9.18	9.83	10.6	9.41	11.4	9.07	5.36	6.46	6.14	5.23	3.89
MAX	9.2	18	21	33	25	39	25	8.0	26	27	18	28
MIN	7.1	7.1	7.9	7.7	7.1	7.7	6.2	3.8	3.3	2.5	3.0	2.0
CFSM	1.04	1.20	1.29	1.39	1.23	1.50	1.19	0.70	0.85	0.80	0.68	0.51
IN.	1.20	1.34	1.49	1.60	1.28	1.73	1.33	0.81	0.94	0.93	0.79	0.57

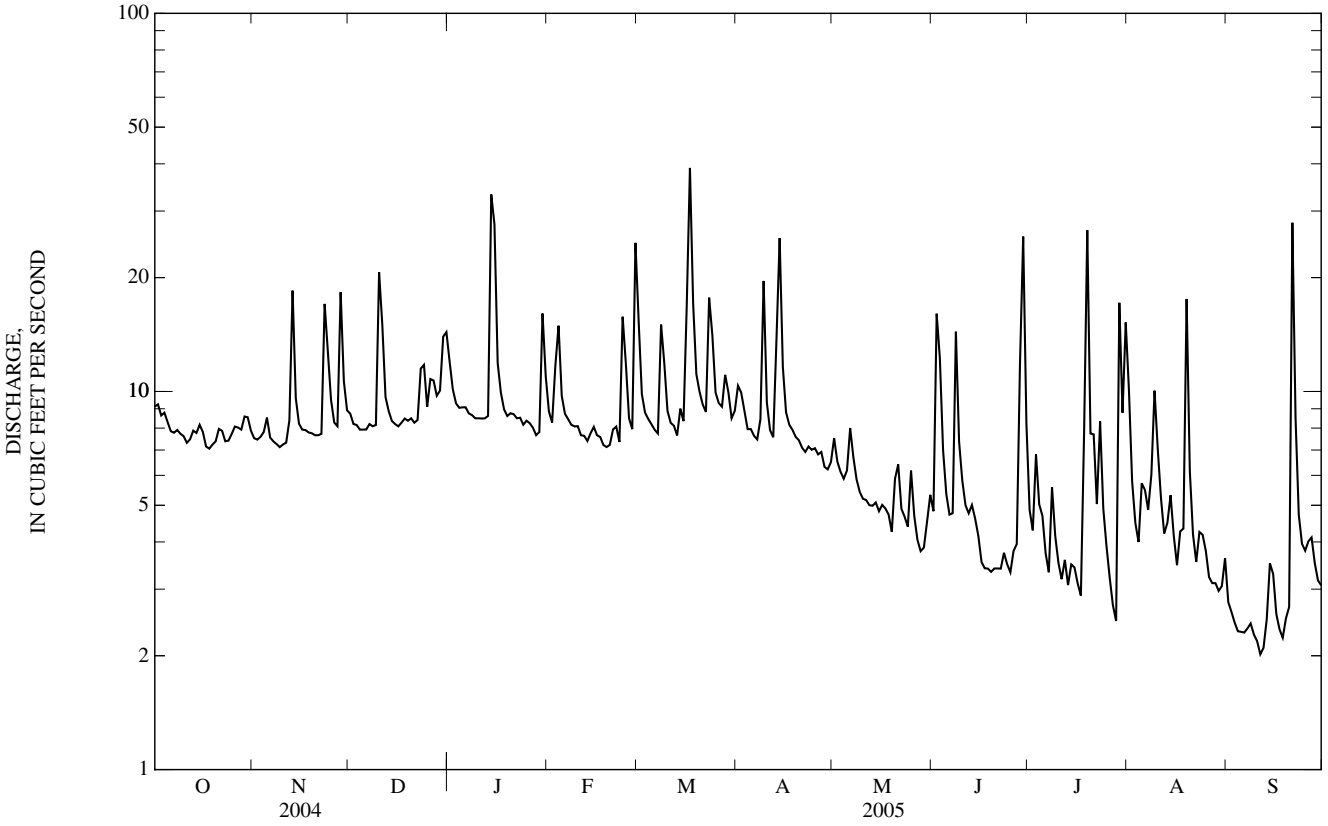
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

MEAN	10.3	10.9	11.7	13.7	14.8	14.9	13.1	10.7	10.5	10.5	9.74	10.2
MAX	19.9	20.5	19.5	20.2	32.0	28.5	39.7	18.9	25.3	24.5	21.7	22.3
(WY)	(1972)	(1980)	(1973)	(1975)	(1973)	(1998)	(1973)	(1973)	(1995)	(1989)	(2003)	(1996)
MIN	5.13	5.02	5.16	7.30	7.00	6.47	5.11	3.67	3.19	2.90	2.74	3.89
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2005)

02102908 FLAT CREEK NEAR INVERNESS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	3,671.3		2,872.8			
ANNUAL MEAN	10.0		7.87		11.8	
HIGHEST ANNUAL MEAN					20.2	1973
LOWEST ANNUAL MEAN					5.00	2002
HIGHEST DAILY MEAN	72	Sep 8	39	Mar 17	200	Apr 1, 1973
LOWEST DAILY MEAN	3.6	Jul 16	2.0	Sep 11	0.94	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	4.2	Jul 11	2.2	Sep 6	1.3	Aug 8, 2002
MAXIMUM PEAK FLOW			47	Jan 14	394	Apr 1, 1973
MAXIMUM PEAK STAGE			1.74	Jan 14	7.30	Apr 1, 1973
INSTANTANEOUS LOW FLOW			1.7*	Sep 11	0.38*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.31		1.03		1.54	
ANNUAL RUNOFF (INCHES)	17.90		14.01		20.93	
10 PERCENT EXCEEDS	16		12		19	
50 PERCENT EXCEEDS	8.4		7.7		9.6	
90 PERCENT EXCEEDS	5.4		3.4		5.3	

* See REMARKS.



02102908 FLAT CREEK NEAR INVERNESS, NC—Continued

PRECIPITATION RECORDS

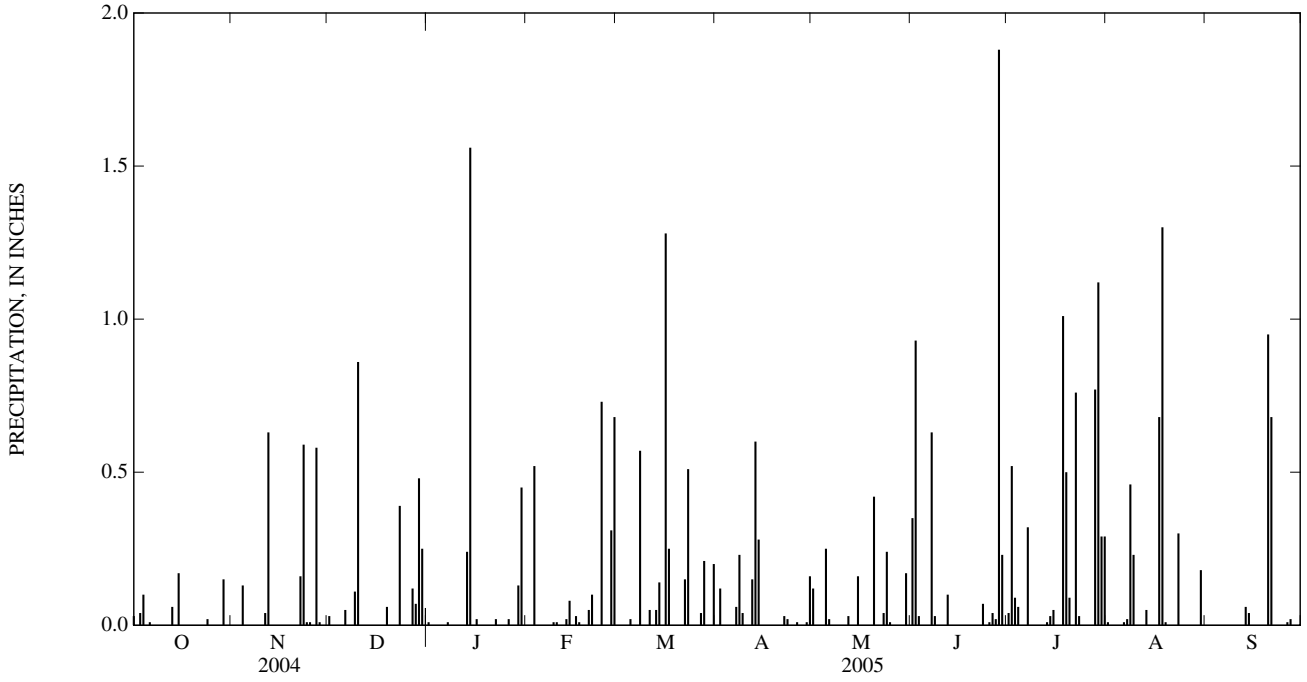
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.03	0.00	0.03	0.01	0.00	0.00	0.00	0.12	0.35	0.04	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.93	0.52	0.00	0.00
3	0.04	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.03	0.09	0.00	0.00
4	0.10	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.25	0.00	0.00	0.00	0.00
6	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00
7	0.00	0.00	0.00	0.01	0.00	0.00	0.06	0.00	0.63	0.32	0.02	0.00
8	0.00	0.00	0.00	0.00	0.00	0.57	0.23	0.00	0.03	0.00	0.46	0.00
9	0.00	0.00	0.11	0.00	0.01	0.00	0.04	0.00	0.00	0.00	0.23	0.00
10	0.00	0.00	0.86	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.04	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.63	0.00	0.00	0.00	0.00	0.15	0.03	0.10	0.00	0.00	0.00
13	0.06	0.00	0.00	0.24	0.02	0.05	0.60	0.00	0.00	0.01	0.05	0.06
14	0.00	0.00	0.00	1.56	0.08	0.14	0.28	0.00	0.00	0.03	0.00	0.04
15	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.05	0.00	0.00
16	0.00	0.00	0.00	0.02	0.03	1.28	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.01	0.25	0.00	0.00	0.00	0.00	0.68	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.01	1.30	0.00
19	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.01	0.00
20	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.42	0.00	0.09	0.00	0.95
21	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.68
22	0.00	0.16	0.00	0.02	0.00	0.15	0.03	0.00	0.00	0.76	0.00	0.00
23	0.00	0.59	0.39	0.00	0.00	0.51	0.02	0.04	0.07	0.03	0.30	0.00
24	0.02	0.01	0.00	0.00	0.73	0.00	0.00	0.24	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
26	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.04	0.00	0.00	0.01
27	0.00	0.58	0.12	0.00	0.31	0.04	0.00	0.00	0.02	0.00	0.00	0.02
28	0.00	0.01	0.07	0.00	0.68	0.21	0.00	0.00	1.88	0.77	0.00	0.00
29	0.15	0.00	0.48	0.13	---	0.00	0.01	0.00	0.23	1.12	0.00	0.00
30	0.00	0.00	0.25	0.45	---	0.00	0.16	0.17	0.00	0.29	0.18	0.00
31	0.00	---	0.00	0.00	---	0.20	---	0.00	---	0.29	0.00	---
TOTAL	0.58	2.16	2.42	2.46	2.55	3.47	1.71	1.46	4.32	5.98	3.25	1.76



02103000 LITTLE RIVER AT MANCHESTER, NC

LOCATION.--Lat 35°11'36", long 78°59'08", Cumberland County, Hydrologic Unit 03030004, on left bank 5 ft upstream from bridge on Secondary Road 1451 (East Manchester Road), 0.3 mi above Tank Creek and 0.2 mi downstream from bridge on Highway 87/24 North of Manchester.

DRAINAGE AREA.--348 mi^2.

PERIOD OF RECORD.--October 1938 to September 1950, July 2002 to current year. Occasional discharge measurements September 1968 to June 2002.

GAGE.--Water-stage recorder. Elevation of gage is 122.16 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for period of poor gage height record, Feb. 1 to June 2 and those for estimated daily discharges, which are poor. Minimum discharge also occurred Sept. 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	436	203	412	479	506	559	435	172	81	117	788	65
2	366	196	253	412	515	555	509	183	159	104	540	58
3	308	194	242	352	517	515	519	186	233	101	350	50
4	302	196	216	443	581	416	488	169	278	128	241	46
5	386	205	204	453	588	332	447	157	248	152	177	43
6	376	203	196	434	577	299	397	176	173	133	145	39
7	345	194	200	417	513	278	312	170	155	110	130	38
8	261	189	212	406	456	345	331	159	313	107	130	36
9	234	183	229	397	437	393	498	146	e411	99	266	35
10	219	180	298	384	435	452	699	135	e370	106	339	35
11	214	179	454	368	417	429	611	126	e419	99	400	39
12	212	248	448	210	363	368	343	122	305	86	381	38
13	216	429	397	196	346	312	340	117	e207	91	301	40
14	208	293	340	636	290	321	e575	111	e156	110	174	48
15	209	250	304	849	293	331	e1,050	119	e128	86	146	51
16	209	233	282	954	297	446	1,100	133	e106	86	140	43
17	203	216	223	978	298	964	666	137	e88	81	132	39
18	192	207	199	821	285	1,260	517	125	87	84	160	35
19	183	200	197	600	255	1,230	444	111	74	199	396	35
20	179	199	198	528	241	1,010	406	124	73	176	261	36
21	184	198	192	495	241	786	361	339	65	171	228	214
22	191	193	186	366	257	457	337	129	64	122	152	138
23	192	338	201	348	267	498	389	118	74	133	130	122
24	189	384	243	322	365	595	312	119	85	307	139	89
25	187	306	252	307	450	788	255	128	79	270	113	74
26	191	256	272	303	481	729	231	105	72	143	98	67
27	196	220	286	303	462	574	219	92	67	90	90	63
28	192	325	272	371	572	511	212	85	92	78	80	59
29	196	344	341	369	---	560	205	77	221	268	77	54
30	207	485	352	450	---	539	178	76	144	302	84	51
31	211	---	436	499	---	453	---	82	---	554	75	---
TOTAL	7,394	7,446	8,537	14,450	11,305	17,305	13,386	4,228	5,027	4,693	6,863	1,780
MEAN	239	248	275	466	404	558	446	136	168	151	221	59.3
MAX	436	485	454	978	588	1,260	1,100	339	419	554	788	214
MIN	179	179	186	196	241	278	178	76	64	78	75	35
CFSM	0.69	0.71	0.79	1.34	1.16	1.60	1.28	0.39	0.48	0.44	0.64	0.17
IN.	0.79	0.80	0.91	1.54	1.21	1.85	1.43	0.45	0.54	0.50	0.73	0.19

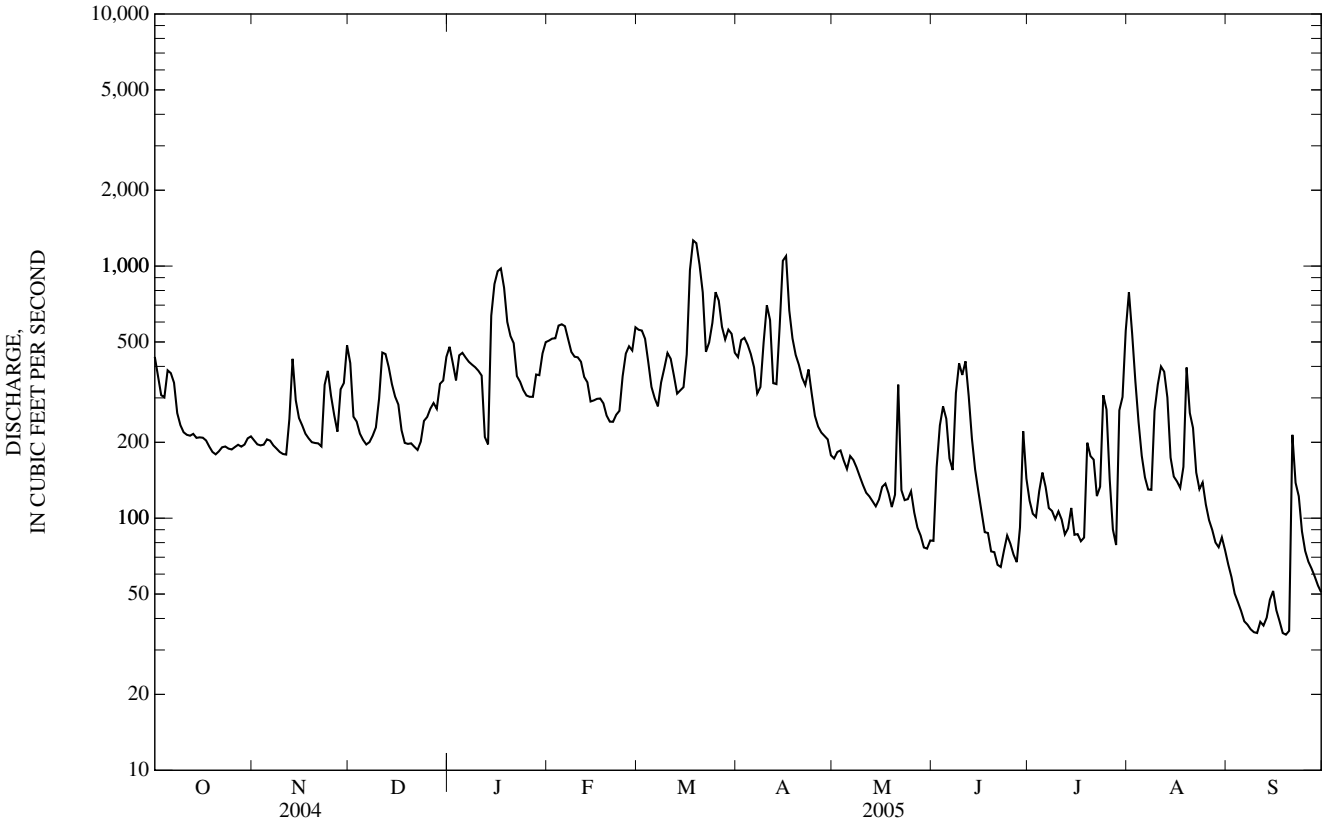
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005,@ BY WATER YEAR (WY)

MEAN	273	348	451	521	641	716	559	338	212	382	423	365
MAX	547	946	942	949	1,340	1,420	1,135	693	784	845	1,556	1,532
(WY)	(1946)	(1948)	(1949)	(1946)	(1948)	(1944)	(1944)	(2003)	(2003)	(2003)	(2003)	(1945)
MIN	33.7	70.2	166	192	218	402	265	136	91.1	39.2	37.6	46.2
(WY)	(1941)	(1942)	(1941)	(1942)	(1941)	(1941)	(1950)	(2005)	(1941)	(2002)	(2002)	(1940)

02103000 LITTLE RIVER AT MANCHESTER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005[@]	
ANNUAL TOTAL	121,750		102,414			
ANNUAL MEAN	333		281		441	
HIGHEST ANNUAL MEAN					774	2003
LOWEST ANNUAL MEAN					229	1941
HIGHEST DAILY MEAN	2,630	Sep 10	1,260	Mar 18	9,000	Sep 18, 1945
LOWEST DAILY MEAN	53	Jul 27	35	Sep 9	19	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	63	Jul 21	37	Sep 6	21	Aug 8, 2002
MAXIMUM PEAK FLOW			1,410	Mar 18	5,090	Aug 11, 2003
MAXIMUM PEAK STAGE			13.10	Mar 18	24.72	Aug 11, 2003
INSTANTANEOUS LOW FLOW			31*	Sep 10	16	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	0.956		0.806		1.27	
ANNUAL RUNOFF (INCHES)	13.01		10.95		17.20	
10 PERCENT EXCEEDS	585		516		914	
50 PERCENT EXCEEDS	264		220		328	
90 PERCENT EXCEEDS	106		77		96	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



02104000 CAPE FEAR RIVER AT FAYETTEVILLE, NC

LOCATION.--Lat 35°03'02", long 78°51'30", Cumberland County, Hydrologic Unit 03030004, at State Highway 24 bridge at Fayetteville, 0.3 mi upstream of Atlantic Coast Railroad bridge, 0.1 mi downstream of Cross Creek.

DRAINAGE AREA.--4,395 mi^2.

PERIOD OF RECORD.-- Discharge records January 1889 to September 1917, and October 1928 to September 1940. October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 20.52 ft above NGVD of 1929. Prior to March 4, 2003, at site 0.2 mi downstream at same datum. Satellite telemetry at station.

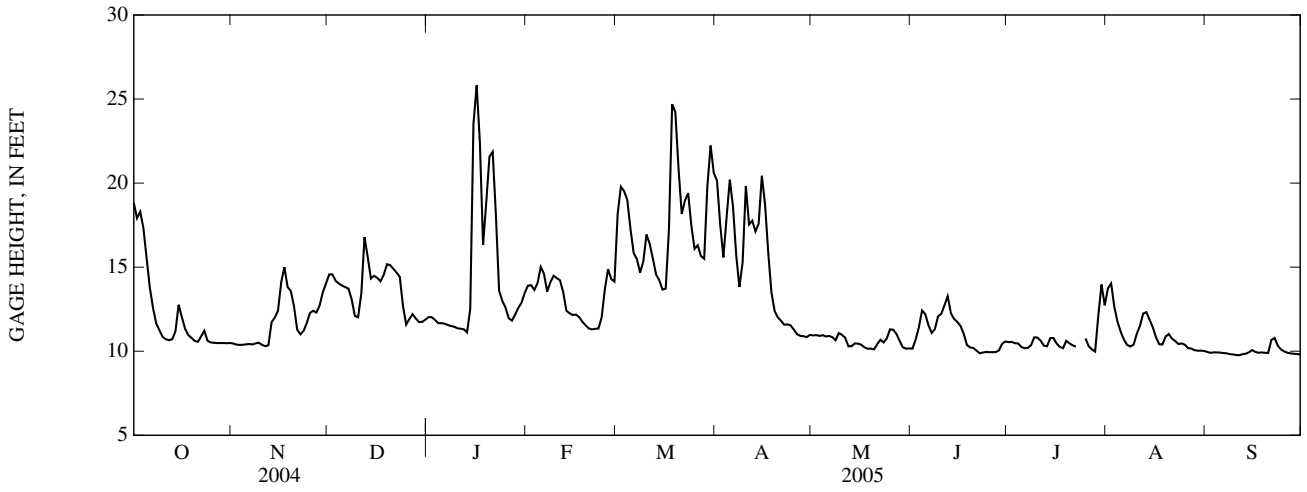
EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum gage height, 48.3 ft, Sept. 24, 1945.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 46.17 ft, Sept. 7, 1996; minimum gage height not determined.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 26.02 ft, Jan. 15; minimum gage height, 9.72 ft, Sept. 11.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.82	10.46	14.57	12.03	13.90	18.17	20.15	10.94	10.15	10.54	13.74	9.96
2	17.92	10.39	14.56	12.02	13.92	19.79	17.53	10.96	10.70	10.55	14.03	9.90
3	18.30	10.37	14.18	11.86	13.65	19.53	15.58	10.91	11.42	10.48	12.63	9.93
4	17.33	10.38	14.02	11.67	14.06	19.01	17.99	10.95	12.42	10.46	11.74	9.93
5	15.53	10.41	13.90	11.67	15.01	17.28	20.20	10.88	12.20	10.25	11.15	9.92
6	13.79	10.43	13.81	11.64	14.61	15.84	18.58	10.91	11.54	10.18	10.68	9.89
7	12.57	10.40	13.72	11.56	13.55	15.48	15.70	10.83	11.09	10.20	10.37	9.88
8	11.65	10.47	13.08	11.50	14.10	14.68	13.82	10.65	11.32	10.35	10.28	9.83
9	11.24	10.51	12.10	11.46	14.49	15.33	15.29	11.08	12.08	10.83	10.38	9.81
10	10.85	10.38	12.02	11.37	14.35	16.94	19.82	10.97	12.22	10.81	11.03	9.78
11	10.71	10.30	13.43	11.34	14.22	16.38	17.54	10.80	12.74	10.63	11.51	9.76
12	10.66	10.35	16.78	11.30	13.52	15.50	17.77	10.29	13.27	10.33	12.24	9.82
13	10.71	11.72	15.61	11.12	12.41	14.55	17.12	10.30	12.25	10.30	12.32	9.85
14	11.18	12.01	14.32	12.52	12.25	14.22	17.59	10.46	11.92	10.78	11.87	9.93
15	12.76	12.40	14.48	23.51	12.15	13.67	20.44	10.45	11.75	10.78	11.43	10.07
16	12.03	14.10	14.36	25.82	12.18	13.72	18.73	10.39	11.50	10.46	10.82	9.96
17	11.34	15.00	14.16	22.42	12.02	17.25	15.83	10.23	11.03	10.25	10.42	9.91
18	10.96	13.82	14.54	16.33	11.75	24.69	13.48	10.15	10.37	10.18	10.39	9.93
19	10.79	13.58	15.17	18.88	11.54	24.22	12.38	10.15	10.22	10.62	10.87	9.90
20	10.62	12.66	15.12	21.58	11.36	20.85	12.01	10.10	10.19	10.47	11.02	9.89
21	10.55	11.28	14.90	21.86	11.30	18.17	11.80	10.42	10.03	10.35	10.75	10.67
22	10.88	11.00	14.68	18.08	11.33	18.96	11.57	10.68	9.88	10.27	10.60	10.79
23	11.22	11.22	14.43	13.60	11.35	19.40	11.60	10.52	9.93	---	10.43	10.33
24	10.62	11.69	12.69	13.00	12.00	17.46	11.53	10.77	9.95	---	10.46	10.10
25	10.52	12.28	11.58	12.60	13.69	16.09	11.28	11.30	9.94	10.76	10.39	9.99
26	10.50	12.40	11.92	11.97	14.88	16.30	11.01	11.28	9.94	10.30	10.18	9.91
27	10.48	12.29	12.20	11.82	14.29	15.66	10.91	11.03	9.95	10.11	10.16	9.87
28	10.49	12.72	11.95	12.18	14.14	15.50	10.89	10.62	10.05	9.98	10.06	9.85
29	10.49	13.52	11.73	12.58	---	19.81	10.84	10.23	10.45	12.13	10.03	9.83
30	10.48	14.04	11.75	12.88	---	22.23	10.97	10.15	10.58	13.97	10.03	9.82
31	10.48	---	11.88	13.47	---	20.60	---	10.17	---	12.73	10.02	---
MEAN	12.14	11.75	13.67	14.38	13.14	17.65	15.00	10.63	11.04	---	11.03	9.97
MAX	18.82	15.00	16.78	25.82	15.01	24.69	20.44	11.30	13.27	---	14.03	10.79
MIN	10.48	10.30	11.58	11.12	11.30	13.67	10.84	10.10	9.88	---	10.02	9.76



02104220 ROCKFISH CREEK AT RAEFORD, NC

LOCATION.--Lat 34°59'59", long 79°12'53", Hoke County, Hydrologic Unit 03030004, at upstream side of bridge on U.S. Highway 401, 1.0 mi downstream of Nicholsons Creek, and 1.0 mile north of Raeford.

DRAINAGE AREA.--93.1 mi^2.

PERIOD OF RECORD.--July 1988 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 178 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred July 23, 2002. Minimum discharge for current water year also occurred Sept. 12, 13.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	106	127	148	126	175	118	90	67	136	208	48
2	117	104	122	134	110	165	118	91	106	81	192	45
3	113	104	117	124	113	126	115	83	160	71	170	45
4	111	107	115	120	144	109	103	78	153	75	87	41
5	108	116	113	116	139	103	96	77	100	93	71	40
6	102	112	112	114	118	101	92	91	78	75	71	41
7	99	107	114	114	108	98	90	89	75	61	74	42
8	95	105	116	111	104	115	110	81	130	125	69	41
9	94	102	114	111	102	153	174	74	174	101	82	39
10	94	101	133	109	104	137	214	70	202	71	142	40
11	93	102	164	108	99	113	151	69	143	60	175	38
12	92	116	158	107	96	106	111	70	91	59	116	38
13	101	263	129	108	95	100	128	67	77	56	86	39
14	108	276	118	168	97	99	161	67	69	58	86	44
15	111	211	112	259	104	101	166	65	63	84	75	48
16	115	141	109	271	102	111	145	70	59	66	66	50
17	106	124	109	243	104	180	111	71	53	68	61	44
18	102	118	110	163	102	217	102	66	49	69	63	41
19	102	115	110	119	95	209	98	62	48	75	84	40
20	104	114	115	112	93	168	96	69	46	120	121	43
21	107	113	110	113	98	120	91	105	46	151	118	83
22	108	112	110	111	109	110	88	85	45	128	86	117
23	105	143	117	110	103	127	88	72	44	116	69	92
24	105	192	144	105	120	154	88	65	45	111	72	68
25	110	208	135	103	144	147	86	71	43	81	70	59
26	109	170	132	104	128	121	83	75	45	62	61	57
27	107	127	150	105	108	111	85	64	48	53	57	57
28	108	151	141	101	139	116	85	59	72	48	55	55
29	111	162	130	98	---	126	85	56	213	136	53	50
30	113	142	138	124	---	115	83	57	227	228	52	47
31	111	---	151	142	---	107	---	71	---	218	51	---
TOTAL	3,282	4,164	3,875	4,075	3,104	4,040	3,361	2,280	2,771	2,936	2,843	1,532
MEAN	106	139	125	131	111	130	112	73.5	92.4	94.7	91.7	51.1
MAX	121	276	164	271	144	217	214	105	227	228	208	117
MIN	92	101	109	98	93	98	83	56	43	48	51	38
CFSM	1.14	1.49	1.34	1.41	1.19	1.40	1.20	0.79	0.99	1.02	0.99	0.55
IN.	1.31	1.66	1.55	1.63	1.24	1.61	1.34	0.91	1.11	1.17	1.14	0.61

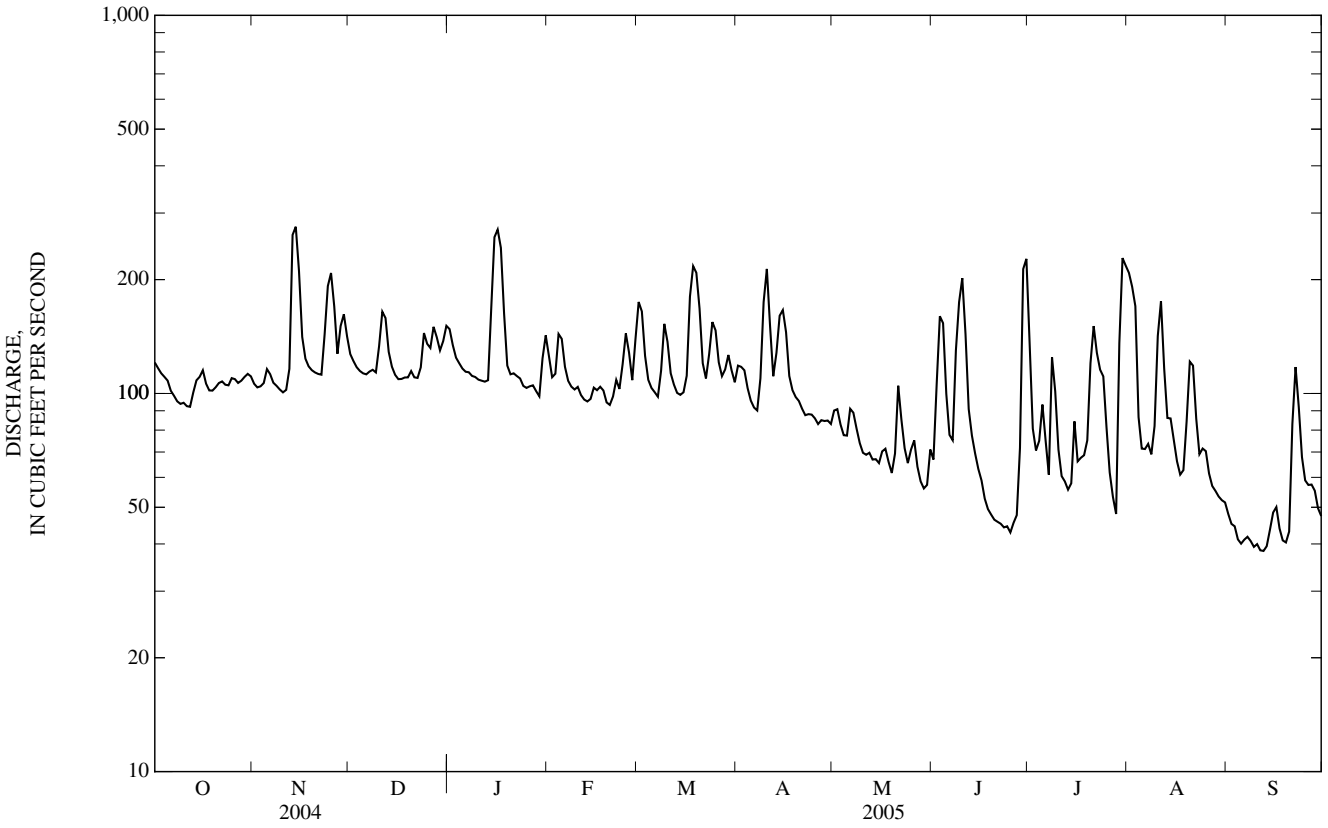
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	115	117	115	137	140	151	134	104	92.6	94.0	101	114
MAX	207	169	186	209	291	289	305	182	175	224	203	247
(WY)	(2000)	(1990)	(1990)	(1998)	(1998)	(1998)	(1998)	(1989)	(1989)	(1989)	(2003)	(1996)
MIN	60.0	62.4	68.0	90.4	84.7	78.4	72.0	51.9	31.2	28.8	39.1	47.4
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02104220 ROCKFISH CREEK AT RAEFORD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	45,117		38,263			
ANNUAL MEAN	123		105		118	
HIGHEST ANNUAL MEAN					167	1998
LOWEST ANNUAL MEAN					60.8	2002
HIGHEST DAILY MEAN	820	Sep 9	276	Nov 14	884	Sep 7, 1996
LOWEST DAILY MEAN	47	Jul 17	38	Sep 11	20	Jul 22, 2002
ANNUAL SEVEN-DAY MINIMUM	57	Jul 6	40	Sep 7	22	Aug 10, 2002
MAXIMUM PEAK FLOW			306	Nov 13	1,030	Sep 7, 1996
MAXIMUM PEAK STAGE			6.40	Nov 13	8.29	Sep 7, 1996
INSTANTANEOUS LOW FLOW			38*	Sep 11	19*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	1.32		1.13		1.27	
ANNUAL RUNOFF (INCHES)	18.03		15.29		17.21	
10 PERCENT EXCEEDS	183		153		195	
50 PERCENT EXCEEDS	108		105		100	
90 PERCENT EXCEEDS	70		53		57	

* See REMARKS.



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC

LOCATION.--Lat 34°50'45", long 78°49'14", Bladen County, Hydrologic Unit 03030005, on right bank 100 ft upstream from William O. Huske Lock, 1 mi downstream of Cumberland-Bladen County line, 7 mi north of Tar Heel, 9 mi upstream from Phillips Creek, and at river mile 123.

DRAINAGE AREA.--4,852 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as "Cape Fear River at Lock 3 near Tarheel".

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete lock and dam contro1. Datum of gage is 28.97 ft above NGVD of 1929. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 mi downstream of base gage; prior to Jan. 14, 1943, auxiliary nonrecording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943, to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records fair except those for daily discharges over 8,000 ft^3/s, estimated daily discharges and periods of fish lockage, March through May, which are poor. Slight regulation at high flow, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants above station. Prior to regulation, maximum discharge not determined; minimum discharge, 170 ft^3/s, Sep. 20, 1950. Minimum discharge during regulation from unknown source. Minimum discharge for current water year also occurred Sept. 11.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,900	1,500	5,600	2,860	4,620	9,220	e10,900	1,850	1,060	1,580	5,070	945
2	9,370	1,440	5,730	2,880	4,700	e11,400	9,420	1,760	1,420	1,580	5,610	900
3	9,720	1,410	5,240	2,730	4,430	e10,600	6,690	1,650	2,200	1,480	3,860	910
4	8,800	1,420	5,020	2,540	4,720	e10,200	8,710	1,680	3,240	1,480	2,820	907
5	6,960	1,440	4,880	2,520	5,840	8,830	e11,000	1,630	3,360	1,280	2,170	893
6	4,860	1,450	4,770	2,490	5,570	6,900	10,600	1,730	2,600	1,220	1,690	884
7	3,570	1,440	4,660	2,440	4,430	6,450	6,710	1,780	2,080	1,190	1,390	874
8	2,560	1,490	4,160	2,380	4,740	5,700	4,540	1,580	2,090	1,330	1,290	833
9	2,190	1,540	3,010	2,350	5,330	6,050	6,000	1,830	3,070	1,750	1,370	824
10	1,840	1,420	2,850	2,270	5,210	8,150	e10,400	1,690	3,220	1,770	2,020	799
11	1,690	1,360	4,020	2,240	5,050	7,530	9,410	1,540	3,530	1,630	2,510	791
12	1,640	1,360	7,950	2,210	4,440	6,600	8,810	1,160	4,590	1,360	3,230	842
13	1,680	2,690	7,080	2,020	3,230	5,450	8,520	1,170	3,360	1,300	3,430	877
14	1,950	3,160	5,290	3,150	3,030	5,040	8,440	1,380	2,880	1,800	2,930	974
15	3,600	3,380	5,410	e13,700	2,950	4,470	12,400	1,370	2,720	1,850	2,460	1,120
16	3,000	5,000	5,310	e18,200	2,940	4,440	11,100	1,250	2,450	1,510	1,860	976
17	2,310	6,480	5,070	e15,700	2,890	7,780	7,230	1,070	2,100	1,300	1,440	903
18	1,940	4,900	5,370	8,830	2,630	e13,700	4,300	1,010	1,410	1,210	1,370	930
19	1,760	4,570	6,200	9,690	2,430	e15,400	2,970	1,010	1,250	1,580	1,800	904
20	1,640	3,780	6,170	e13,200	2,270	e12,300	2,650	985	1,230	1,490	2,050	882
21	1,570	2,270	5,920	e14,700	2,200	e8,650	2,460	1,300	1,100	1,380	1,760	1,590
22	1,790	1,970	5,650	11,400	2,240	e9,260	2,250	1,550	945	1,310	1,610	1,890
23	2,190	2,130	5,400	4,500	2,250	e10,100	2,410	1,430	996	1,360	1,400	1,380
24	1,660	2,590	3,820	3,690	2,770	e8,740	2,380	1,530	1,020	2,380	1,450	1,130
25	1,550	3,150	2,470	3,370	4,450	7,030	2,060	2,030	1,000	1,780	1,380	996
26	1,530	3,310	2,730	2,780	5,960	7,410	1,760	2,050	1,010	1,370	1,180	901
27	1,510	3,200	3,080	2,650	5,350	6,730	1,670	1,880	1,000	1,180	1,130	880
28	1,520	3,580	2,860	2,880	5,040	6,290	1,660	1,530	1,040	1,070	1,060	856
29	1,510	4,420	2,620	3,270	---	e10,100	1,620	1,190	1,450	3,150	1,030	833
30	1,500	5,070	2,610	3,560	---	e13,200	1,830	1,080	1,610	5,920	991	830
31	1,510	---	2,720	4,170	---	e11,500	---	1,110	---	4,180	988	---
TOTAL	99,820	82,920	143,670	171,370	111,710	265,220	180,900	45,805	61,031	54,770	64,349	29,254
MEAN	3,220	2,764	4,635	5,528	3,990	8,555	6,030	1,478	2,034	1,767	2,076	975
MAX	10,900	6,480	7,950	18,200	5,960	15,400	12,400	2,050	4,590	5,920	5,610	1,890
MIN	1,500	1,360	2,470	2,020	2,200	4,440	1,620	985	945	1,070	988	791

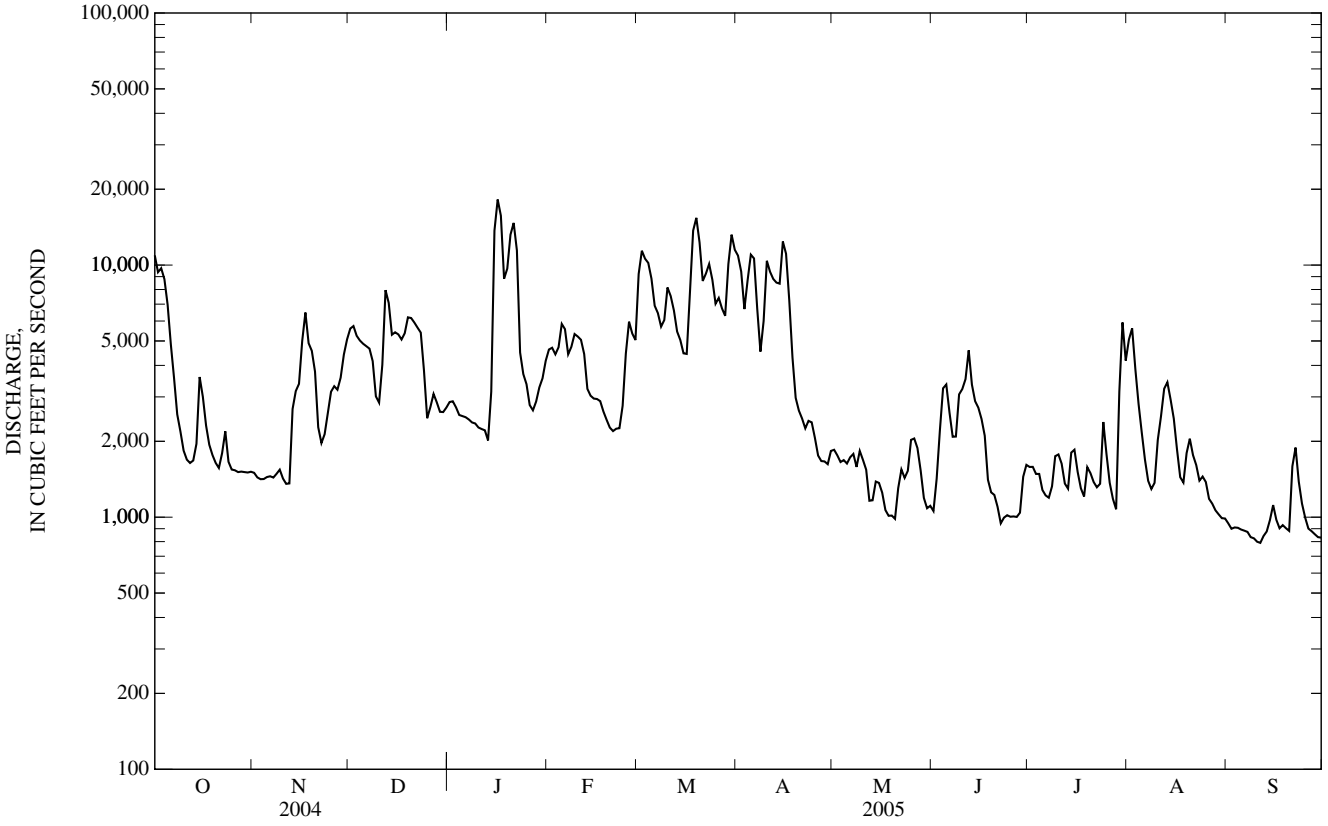
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005,* BY WATER YEAR (WY)

MEAN	3,080	3,098	4,188	7,032	8,287	9,833	6,879	3,636	3,305	2,864	2,946	3,267
MAX	10,230	10,190	11,360	17,240	24,770	21,520	18,510	11,770	14,200	9,262	12,430	18,950
(WY)	(2000)	(1996)	(1984)	(1998)	(1998)	(1998)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
MIN	979	978	1,004	1,633	2,799	2,510	1,508	882	846	699	701	935
(WY)	(1987)	(2002)	(2002)	(2001)	(1986)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1990)

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005*	
ANNUAL TOTAL	1,436,565		1,310,819			
ANNUAL MEAN	3,925		3,591		4,850	
HIGHEST ANNUAL MEAN					9,689	2003
LOWEST ANNUAL MEAN					1,636	2002
HIGHEST DAILY MEAN	23,400	Sep 9	18,200	Jan 16	60,000	Sep 8, 1996
LOWEST DAILY MEAN	985	May 18	791	Sep 11	154	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	1,180	Jul 15	834	Sep 7	408	Aug 7, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			10.89	Jan 16	26.75	Sep 8, 1996
INSTANTANEOUS LOW FLOW			779*	Sep 10	36*	Aug 13, 1999
10 PERCENT EXCEEDS	7,800		8,670		12,700	
50 PERCENT EXCEEDS	2,660		2,380		2,380	
90 PERCENT EXCEEDS	1,440		1,030		984	

* Regulated period only (1982-2005). See REMARKS.
e Estimated.



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued

PRECIPITATION RECORDS

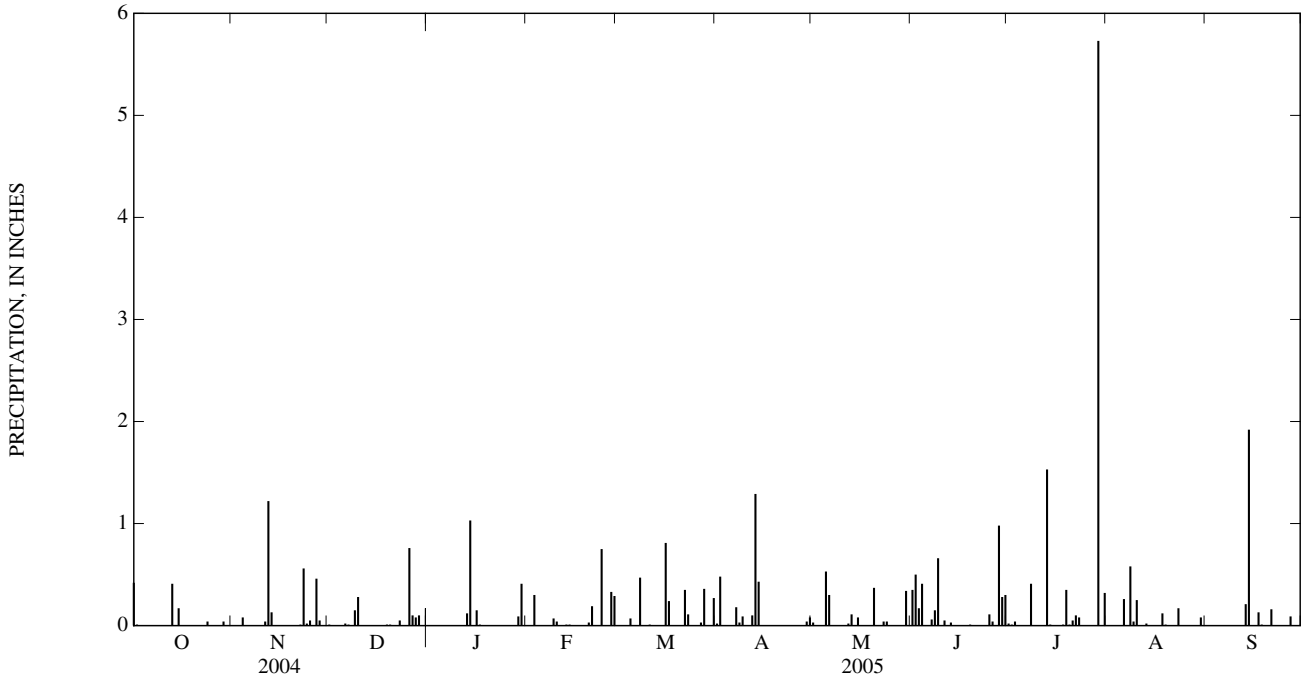
PERIOD OF RECORD.--October 2003 to current year. Prior precipitation records are unreliable and should not be used.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with the U.S. Army Corps of Engineers. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.42	0.00	0.01	0.00	0.00	0.00	0.02	0.03	0.35	0.02	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.50	0.01	0.00	0.00
3	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.17	0.04	0.00	0.00
4	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.53	0.00	0.00	0.00	0.00
6	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.26	0.00
7	0.00	0.00	0.01	0.00	0.00	0.00	0.18	0.00	0.06	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.47	0.03	0.00	0.15	0.41	0.58	0.00
9	0.00	0.00	0.15	0.00	0.07	0.00	0.09	0.00	0.66	0.00	0.04	0.00
10	0.00	0.00	0.28	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.25	0.00
11	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.00
12	0.00	1.22	0.00	0.00	0.00	0.00	0.10	0.02	0.00	0.00	0.00	0.00
13	0.41	0.13	0.00	0.12	0.01	0.00	1.29	0.11	0.03	1.53	0.02	0.21
14	0.00	0.00	0.00	1.03	0.01	0.00	0.43	0.00	0.00	0.01	0.00	1.92
15	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.15	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.01	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.13
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.01
19	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.35	0.01	0.00
20	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.37	0.00	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.05	0.00	0.16
22	0.00	0.01	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.10	0.00	0.00
23	0.00	0.56	0.05	0.00	0.00	0.11	0.00	0.04	0.00	0.08	0.17	0.00
24	0.04	0.02	0.00	0.00	0.75	0.00	0.00	0.04	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
26	0.00	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
27	0.00	0.46	0.10	0.00	0.33	0.03	0.00	0.00	0.00	0.00	0.00	0.09
28	0.00	0.05	0.08	0.00	0.29	0.36	0.00	0.00	0.98	0.00	0.00	0.00
29	0.04	0.00	0.10	0.09	---	0.00	0.04	0.00	0.28	5.73	0.00	0.00
30	0.00	0.00	0.00	0.41	---	0.00	0.08	0.34	0.30	0.00	0.08	0.00
31	0.00	---	0.00	0.00	---	0.27	---	0.00	---	0.32	0.00	---
TOTAL	1.09	2.62	1.58	1.81	2.02	2.72	2.74	1.86	4.10	8.67	1.53	2.52



02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC

LOCATION.--Lat 34°24'16", long 78°17'37", Bladen County, Hydrologic Unit 03030005, on right bank near upstream end of Lock 1, 1.3 mi upstream from Natmore Creek, 2.0 mi upstream from bridge on State Highway 11, 4.6 mi southeast of Kelly, and at river mile 67.

DRAINAGE AREA.--5,255 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1969 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder with concrete lock and dam control. Datum of gage is 2.90 ft below NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Daily discharges above 2,500 ft^3/s are fair, daily discharges below 2,500 ft^3/s are poor. Slight regulation at high flow December 1972 to August 1981, caused by storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants upstream from station. The City of Wilmington diverted an average of 27.2 ft^3/s for municipal water supply, most of which was returned downstream of station as treated effluent. Prior to regulation, maximum discharge: 57,000 ft^3/s, March 3, 1979; gage height: 24.92 ft, from floodmarks. Minimum discharge prior to regulation, 406 ft^3/s, July 1, 1981. Minimum discharge for period of record not determined due to fish lockage. Minimum discharge for current water year also occurred Sept. 7.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10,800	1,570	6,260	3,310	5,150	6,830	14,100	1,830	946	2,290	6,670	911
2	11,300	1,530	6,770	3,420	5,530	10,600	13,600	1,850	1,060	2,000	7,030	887
3	10,800	1,470	6,570	3,360	5,500	12,100	11,100	1,950	1,680	1,830	6,170	850
4	10,800	1,460	6,180	3,180	5,410	12,400	8,740	1,960	2,770	1,710	4,290	843
5	9,760	1,480	5,930	2,990	6,090	11,900	10,500	1,920	3,780	1,560	2,920	831
6	7,410	1,480	5,770	2,960	6,800	9,900	12,100	2,280	3,510	1,360	2,130	812
7	5,360	1,490	5,650	2,920	6,190	8,040	11,200	2,240	2,760	1,230	1,590	818
8	3,750	1,480	5,500	2,830	5,290	7,260	8,110	1,940	2,300	1,280	1,330	865
9	2,820	1,550	4,470	2,770	5,910	6,270	6,200	1,900	2,880	1,470	1,380	886
10	2,280	1,540	3,660	2,690	6,250	7,570	8,420	2,070	3,780	1,800	1,790	865
11	1,880	1,440	3,760	2,590	6,100	8,560	11,400	2,060	3,760	1,800	2,490	842
12	1,700	1,440	6,240	2,570	5,860	8,130	10,300	1,790	4,850	1,590	2,940	872
13	1,640	2,170	8,770	2,460	4,760	6,950	10,300	1,440	4,690	1,370	3,660	936
14	1,750	3,470	7,440	2,610	3,780	6,080	9,840	1,280	3,590	1,970	3,510	1,220
15	2,810	3,700	6,330	6,850	3,520	5,650	10,800	1,250	3,210	2,350	2,960	1,430
16	3,810	4,290	6,270	14,500	3,410	5,110	12,600	1,290	2,890	2,100	2,390	1,280
17	3,110	6,720	6,090	17,200	3,440	5,600	11,700	1,320	2,550	1,690	1,840	1,080
18	2,410	6,640	5,930	16,600	3,100	10,400	8,340	1,320	1,890	1,390	1,470	985
19	2,100	5,660	6,550	12,200	2,610	15,200	5,410	1,160	1,380	1,400	1,600	942
20	1,890	5,240	7,050	12,400	2,370	16,600	3,890	1,220	1,230	1,600	1,960	911
21	1,690	3,770	7,000	14,200	2,210	15,400	3,340	1,600	1,160	1,530	2,030	1,030
22	1,650	2,570	6,690	14,800	2,190	12,800	2,980	1,770	1,010	1,490	1,780	1,640
23	2,150	2,540	6,470	11,400	2,210	12,200	2,780	1,670	929	1,420	1,580	1,700
24	2,210	3,020	5,940	6,300	2,520	12,300	2,670	1,340	945	1,850	1,480	1,320
25	1,740	3,510	3,920	4,690	3,730	10,400	2,570	1,610	978	2,290	1,450	1,130
26	1,620	3,920	3,170	3,860	5,660	8,770	2,410	1,950	1,000	1,730	1,310	996
27	1,570	3,970	3,660	3,280	6,430	8,320	2,150	1,930	997	1,330	1,150	971
28	1,550	4,250	3,740	3,100	6,060	7,640	2,000	1,650	1,100	1,110	1,100	971
29	1,560	4,850	3,450	3,500	---	8,070	1,890	1,240	1,930	1,620	1,010	902
30	1,560	5,730	3,210	3,950	---	11,900	1,750	982	2,570	5,400	952	930
31	1,560	---	3,200	4,510	---	14,100	---	961	---	6,630	945	---
TOTAL	117,040	93,950	171,640	194,000	128,080	303,050	223,190	50,773	68,125	60,190	74,907	30,656
MEAN	3,775	3,132	5,537	6,258	4,574	9,776	7,440	1,638	2,271	1,942	2,416	1,022
MAX	11,300	6,720	8,770	17,200	6,800	16,600	14,100	2,280	4,850	6,630	7,030	1,700
MIN	1,550	1,440	3,170	2,460	2,190	5,110	1,750	961	929	1,110	945	812

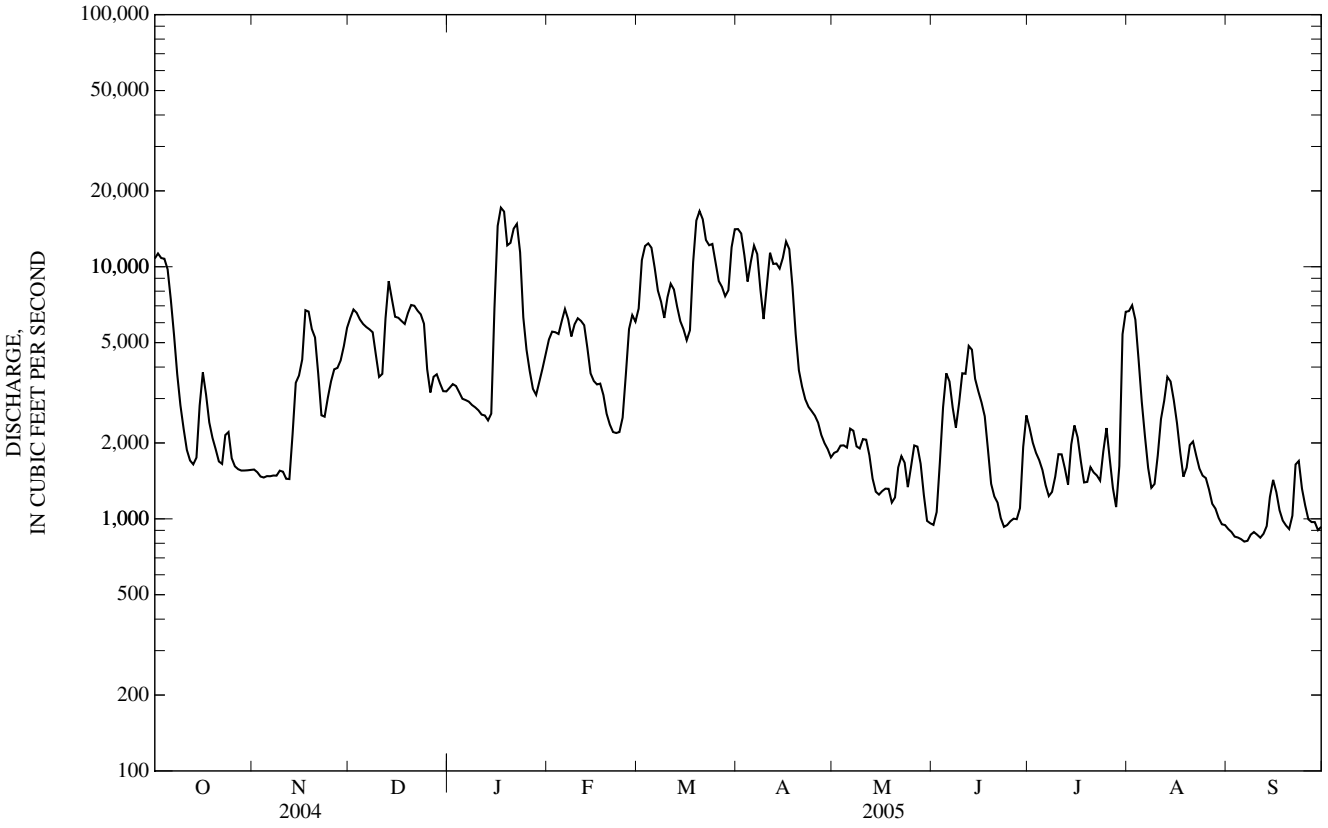
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005,* BY WATER YEAR (WY)

MEAN	3,569	3,430	4,783	7,827	9,248	10,910	8,115	4,014	3,795	3,124	3,345	3,996
MAX	15,080	11,390	11,050	17,180	27,780	23,830	21,650	12,110	15,070	10,860	13,400	22,580
(WY)	(2000)	(1996)	(1984)	(1998)	(1998)	(1998)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
MIN	1,023	1,062	1,111	1,717	2,992	3,016	1,667	968	874	802	776	985
(WY)	(1999)	(2002)	(2002)	(2001)	(2001)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1990)

02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005*	
ANNUAL TOTAL	1,664,490		1,515,601			
ANNUAL MEAN	4,548		4,152		5,493	
HIGHEST ANNUAL MEAN					10,740	2003
LOWEST ANNUAL MEAN					1,833	2002
HIGHEST DAILY MEAN	21,200	Sep 13	17,200	Jan 17	47,600	Sep 11, 1996
LOWEST DAILY MEAN	1,080	Aug 12	812	Sep 6	179	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	1,280	Jul 16	844	Sep 3	350	Aug 7, 2002
MAXIMUM PEAK FLOW			17,600	Jan 17	48,300	Sep 11, 1996
MAXIMUM PEAK STAGE			19.82	Jan 18	24.29	Sep 11, 1996
INSTANTANEOUS LOW FLOW			807*	Sep 6	NOT DETERMINED*	
10 PERCENT EXCEEDS	8,870		10,300		14,500	
50 PERCENT EXCEEDS	3,190		2,760		2,830	
90 PERCENT EXCEEDS	1,560		1,090		1,050	

* Regulated period only (1982-2005). See REMARKS.



02105769 CAPE FEAR RIVER AT LOCK 1 NEAR KELLY, NC—Continued

PRECIPITATION RECORDS

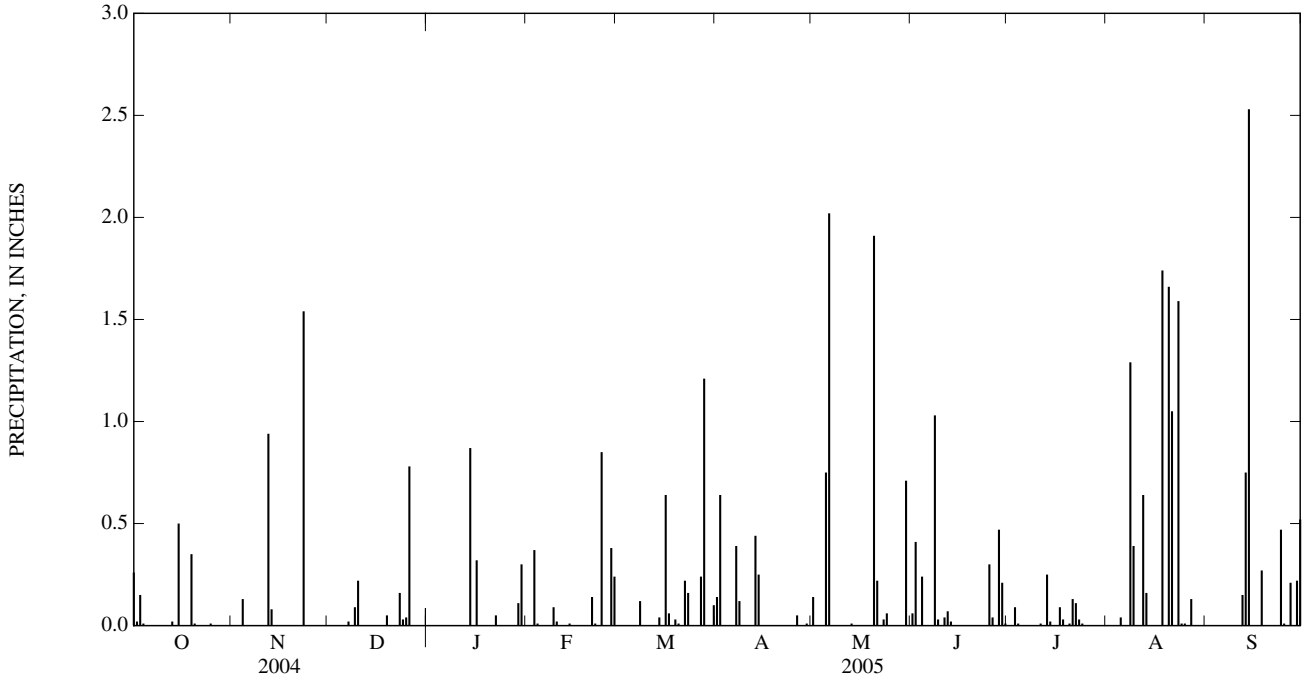
PERIOD OF RECORD.--November 1998 to current year. Records from November 1998 to September 1999 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.26	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.06	0.00	---	0.00
2	0.02	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.41	0.00	---	0.00
3	0.15	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.09	---	0.00
4	0.01	0.13	0.00	0.00	0.01	0.00	0.00	0.00	0.24	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.75	0.00	0.00	0.04	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.02	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.00	1.03	0.00	1.29	0.00
9	0.00	0.00	0.09	0.00	0.09	0.00	0.00	0.00	0.03	0.00	0.39	0.00
10	0.00	0.00	0.22	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.01	0.00	0.00
12	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.64	0.15
13	0.02	0.08	0.00	0.00	0.00	0.00	0.44	0.01	0.02	0.25	0.16	0.75
14	0.00	0.00	0.00	0.87	0.01	0.04	0.25	0.00	0.00	0.02	0.00	2.53
15	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.32	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.09	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	1.74	0.27
19	0.35	0.00	0.05	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
20	0.01	0.00	0.00	0.00	0.00	0.01	0.00	1.91	0.00	0.01	1.66	0.00
21	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.22	0.00	0.13	1.05	0.00
22	0.00	0.00	0.00	0.05	0.01	0.22	0.00	0.00	0.00	0.11	0.00	0.00
23	0.00	1.54	0.16	0.00	0.00	0.16	0.00	0.03	0.00	0.03	1.59	0.00
24	0.00	0.00	0.03	0.00	0.85	0.00	0.00	0.06	0.00	0.01	0.01	0.47
25	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.01	0.01
26	0.00	0.00	0.78	0.00	0.00	0.00	0.05	0.00	0.04	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.38	0.24	0.00	0.00	0.00	0.00	0.13	0.21
28	0.00	0.00	0.00	0.00	0.24	1.21	0.00	0.00	0.47	0.00	0.00	0.00
29	0.00	0.00	0.00	0.11	---	0.00	0.01	0.00	0.21	---	0.00	0.22
30	0.00	0.00	0.00	0.30	---	0.00	0.00	0.71	0.01	---	0.00	0.52
31	0.00	---	0.00	0.00	---	0.10	---	0.00	---	---	0.00	---
TOTAL	1.33	2.69	1.39	1.65	2.12	2.83	2.04	5.85	2.93	---	---	5.13



02105900 HOOD CREEK NEAR LELAND, NC

LOCATION.--Lat 34°16'43", long 78°07'31", Brunswick County, Hydrologic Unit 03030005, on right bank at downstream side of bridge on U.S. Highway 74-76, 0.4 mi downstream from Pasture Pond Branch, 1 mi southeast of Maco, and 4.8 mi northwest of Leland.

DRAINAGE AREA.--21.6 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements water years 1950-56, and annual maximum, water years 1953-56. October 1956 to September 1973. October 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 12.22 ft above NGVD of 1929. Prior to Nov. 28, 1956, crest-stage gage at site 150 ft upstream at datum 9.60 ft lower. Nov. 29, 1956 to Apr. 24, 1969, water-stage recorder 150 ft upstream at datum 0.19 ft higher. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records poor. Maximum gage height for period of record from floodmark. Low flows possibly affected by tide. No flow, also occurred Sept. 11, 1997.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	13	18	11	14	24	12	e0.25	13	32	93	4.9
2	14	13	16	9.9	12	18	42	e0.23	16	22	75	3.7
3	13	13	14	9.2	11	14	129	e0.20	46	17	49	3.3
4	13	12	13	8.9	15	12	54	e0.17	185	16	35	2.8
5	12	15	13	8.8	16	11	29	0.18	230	23	27	2.7
6	11	15	12	9.1	13	9.6	19	41	117	23	23	2.4
7	10	16	12	11	12	8.9	14	97	55	19	20	1.3
8	9.2	16	13	11	9.9	9.0	20	46	33	16	19	0.60
9	8.4	16	14	11	8.6	8.3	25	28	26	14	19	0.58
10	7.8	16	17	11	8.5	8.1	18	20	31	13	21	0.53
11	7.3	17	18	11	7.9	8.0	13	16	28	12	20	0.53
12	7.9	20	16	11	6.9	7.6	9.1	13	22	12	17	0.75
13	7.6	24	15	12	6.1	7.3	6.9	11	18	14	14	6.5
14	7.7	24	13	18	6.5	7.2	12	13	e16	51	12	294
15	10	21	13	28	6.1	6.7	17	12	e14	125	11	785
16	12	19	12	25	6.0	8.8	14	13	e12	69	9.7	310
17	12	18	12	20	5.8	13	9.2	15	e10	43	8.4	143
18	11	17	11	18	5.2	13	5.8	14	e8.4	36	7.7	74
19	17	17	11	16	5.0	11	3.4	12	e7.0	45	8.9	43
20	20	17	11	16	4.8	11	1.9	11	e6.0	33	9.6	27
21	18	16	11	16	5.3	9.4	1.3	70	e5.1	25	9.6	19
22	15	17	10	15	5.8	8.1	0.93	89	e3.8	25	8.0	14
23	14	20	11	16	5.6	10	e0.78	40	e3.1	104	9.5	9.9
24	13	24	12	15	9.1	11	e0.66	46	e2.5	118	46	7.1
25	13	22	12	15	12	9.9	e0.58	60	e2.2	58	60	5.8
26	14	19	21	15	12	8.4	e0.50	42	e2.0	37	28	4.5
27	15	18	31	14	11	11	e0.42	28	e1.8	27	17	4.2
28	14	26	23	14	19	25	e0.37	19	e1.7	30	12	3.6
29	13	31	16	13	---	44	e0.32	14	e6.0	81	9.5	3.2
30	13	22	14	16	---	25	e0.28	12	31	79	7.9	3.5
31	14	---	12	15	---	16	---	12	---	70	6.3	---
TOTAL	382.9	554	447	439.9	260.1	394.3	460.44	795.03	952.6	1,289	713.1	1,781.39
MEAN	12.4	18.5	14.4	14.2	9.29	12.7	15.3	25.6	31.8	41.6	23.0	59.4
MAX	20	31	31	28	19	44	129	97	230	125	93	785
MIN	7.3	12	10	8.8	4.8	6.7	0.28	0.17	1.7	12	6.3	0.53
CFSM	0.57	0.85	0.67	0.66	0.43	0.59	0.71	1.19	1.47	1.93	1.06	2.75
IN.	0.66	0.95	0.77	0.76	0.45	0.68	0.79	1.37	1.64	2.22	1.23	3.07

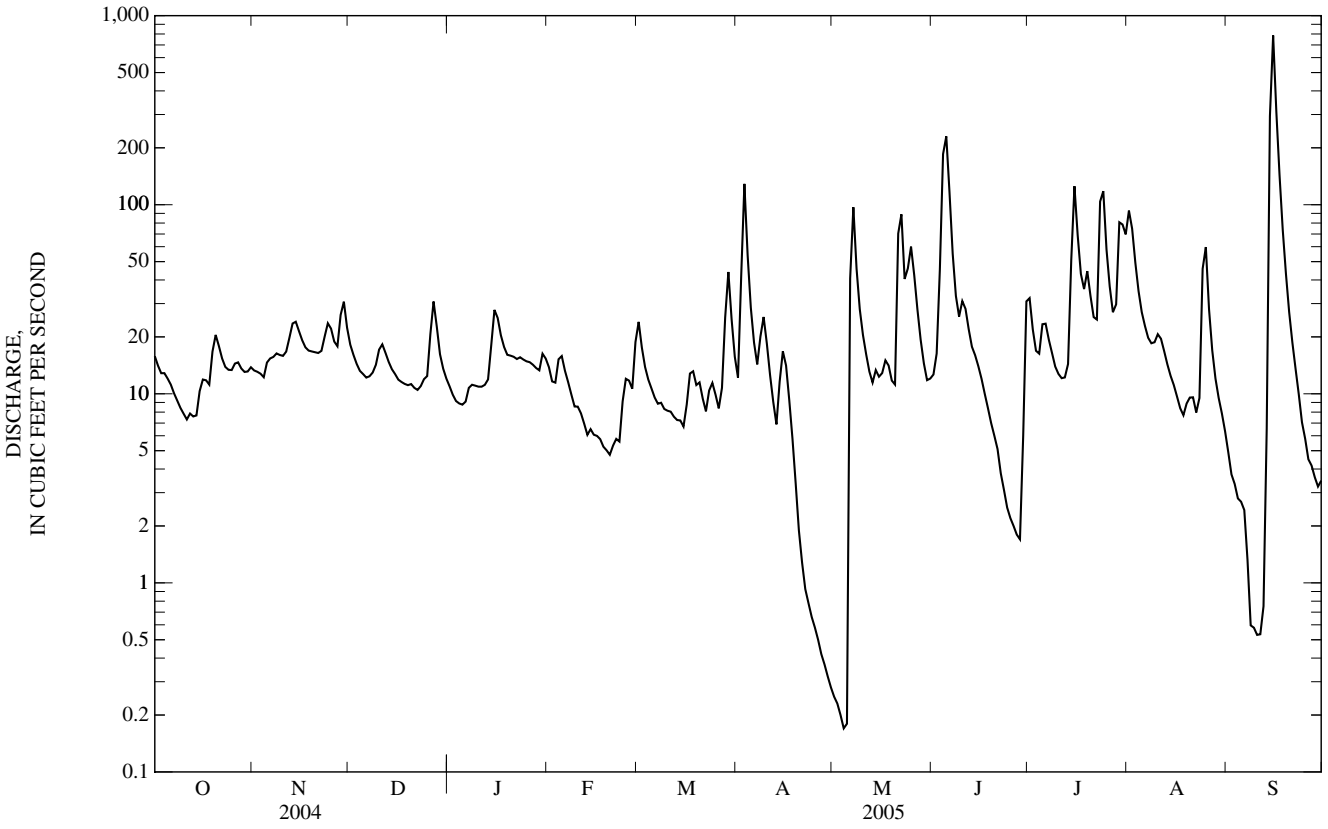
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	29.7	20.8	27.5	43.2	51.9	53.9	31.5	18.6	22.2	36.6	47.8	58.0
MAX	115	52.6	74.5	93.8	177	111	115	137	143	133	153	534
(WY)	(2000)	(1960)	(1973)	(1964)	(1998)	(1959)	(1961)	(1999)	(1961)	(1996)	(1969)	(1999)
MIN	1.11	0.53	1.53	3.20	3.54	8.27	3.69	1.67	0.32	0.73	0.15	0.51
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1967)	(1995)	(1960)	(1957)	(1957)	(1963)

02105900 HOOD CREEK NEAR LELAND, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	9,857.37		8,469.76			
ANNUAL MEAN	26.9		23.2		36.8	
HIGHEST ANNUAL MEAN					80.6	1999
LOWEST ANNUAL MEAN					10.5	2002
HIGHEST DAILY MEAN	296	Aug 16	785	Sep 15	3,000	Sep 16, 1999
LOWEST DAILY MEAN	0.63	Jun 27	0.17	May 4	0.00	Sep 10, 1997
ANNUAL SEVEN-DAY MINIMUM	1.2	Jun 23	0.23	Apr 29	0.02	Sep 4, 1997
MAXIMUM PEAK FLOW			1,030	Sep 15	4,800	Sep 16, 1999
MAXIMUM PEAK STAGE			8.46	Sep 15	13.89*	Sep 16, 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00*	Sep 10, 1997
ANNUAL RUNOFF (CFSM)	1.25		1.07		1.70	
ANNUAL RUNOFF (INCHES)	16.98		14.59		23.12	
10 PERCENT EXCEEDS	61		42		81	
50 PERCENT EXCEEDS	15		13		15	
90 PERCENT EXCEEDS	4.6		3.7		1.6	

* See REMARKS.
e Estimated.



02106500 BLACK RIVER NEAR TOMAHAWK, NC

LOCATION.--Lat 34°45'18", long 78°17'19", Sampson County, Hydrologic Unit 03030006, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mi downstream of Clear Run Swamp, and 3.8 mi northeast of Tomahawk.

DRAINAGE AREA.--676 mi^2.

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1723: 1955(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft above NGVD of 1929. Nonrecording gage on downstream side of bridge Oct. 1, 1951 to June 29, 1961. Water-stage recorder was at present site at datum of 24.26 ft June 30, 1961 to Sept. 30, 1964. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum gage height for period of record, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 22.0 ft, present datum; discharge, 14,500 ft^3/s and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum; discharge, 5,420 ft^3/s, from information furnished by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	468	209	1,040	520	613	919	661	243	185	491	1,060	319
2	480	201	868	496	563	983	716	231	194	376	659	282
3	466	195	710	477	521	891	885	220	228	342	513	231
4	441	195	610	461	555	728	927	205	276	367	442	196
5	406	211	560	452	610	621	840	194	338	333	404	167
6	375	239	531	446	595	577	722	450	344	289	361	143
7	349	224	510	437	547	539	627	1,120	297	226	328	120
8	326	210	492	427	510	514	604	1,300	281	200	298	103
9	308	202	475	418	484	519	627	1,300	322	204	280	91
10	295	195	499	400	478	524	614	1,240	429	162	274	80
11	280	184	586	384	484	509	564	982	450	140	464	71
12	264	209	564	373	456	485	508	625	349	126	556	64
13	254	556	504	365	431	463	493	542	301	125	549	62
14	267	856	461	404	413	437	822	512	272	189	500	101
15	291	797	421	697	405	414	1,240	444	247	216	466	289
16	299	611	395	879	395	405	1,340	458	219	290	457	292
17	289	515	378	884	383	529	1,280	442	185	359	400	234
18	266	459	371	785	371	778	1,050	371	160	417	371	225
19	264	419	363	683	354	878	808	317	139	646	316	214
20	287	394	356	636	345	886	661	283	121	542	275	206
21	264	380	346	630	340	879	576	291	107	391	253	192
22	251	368	339	619	360	834	509	285	97	334	264	175
23	241	378	345	596	372	875	450	262	86	615	285	161
24	231	511	369	552	425	1,150	400	257	76	954	340	148
25	223	593	375	503	705	1,270	363	244	71	635	395	136
26	222	544	391	475	802	1,270	334	231	73	450	372	126
27	216	483	591	452	712	1,130	314	216	140	410	358	121
28	212	669	683	423	701	928	295	204	170	349	345	118
29	209	1,020	644	403	---	805	273	199	411	308	331	111
30	209	1,100	597	448	---	742	257	191	614	1,080	328	160
31	210	---	555	619	---	685	---	188	---	1,460	327	---
TOTAL	9,163	13,127	15,929	16,344	13,930	23,167	19,760	14,047	7,182	13,026	12,571	4,938
MEAN	296	438	514	527	498	747	659	453	239	420	406	165
MAX	480	1,100	1,040	884	802	1,270	1,340	1,300	614	1,460	1,060	319
MIN	209	184	339	365	340	405	257	188	71	125	253	62
CFSM	0.44	0.65	0.76	0.78	0.74	1.11	0.97	0.67	0.35	0.62	0.60	0.24
IN.	0.50	0.72	0.88	0.90	0.77	1.27	1.09	0.77	0.40	0.72	0.69	0.27

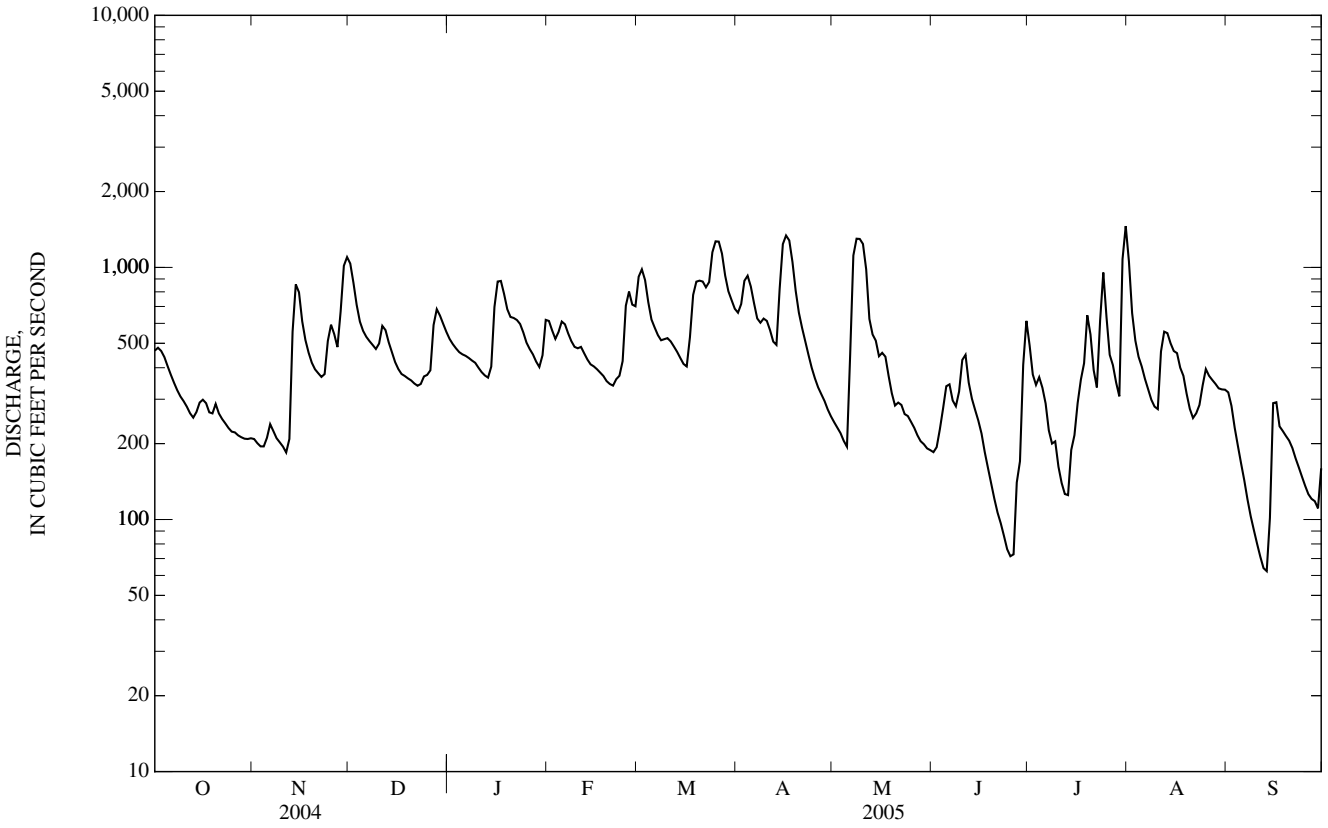
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

MEAN	521	499	707	1,112	1,295	1,405	1,055	540	483	531	708	707
MAX	4,421	1,412	2,164	2,903	4,212	3,410	3,070	1,687	3,089	3,949	2,810	5,812
(WY)	(2000)	(1963)	(1993)	(1993)	(1998)	(1983)	(1973)	(1978)	(1995)	(2003)	(1974)	(1999)
MIN	29.6	57.1	238	287	448	460	225	117	73.0	68.0	25.2	13.4
(WY)	(1955)	(1974)	(1989)	(1986)	(1989)	(1981)	(1981)	(2001)	(2002)	(1998)	(1954)	(1954)

02106500 BLACK RIVER NEAR TOMAHAWK, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1952 - 2005	
ANNUAL TOTAL	241,731		163,184			
ANNUAL MEAN	660		447		795	
HIGHEST ANNUAL MEAN					1,300	1960
LOWEST ANNUAL MEAN					327	1986
HIGHEST DAILY MEAN	2,490	Apr 16	1,460	Jul 31	27,300	Sep 18, 1999
LOWEST DAILY MEAN	82	Jul 30	62	Sep 13	8.9	Sep 13, 1954
ANNUAL SEVEN-DAY MINIMUM	96	Jul 24	82	Sep 8	9.9	Oct 9, 1954
MAXIMUM PEAK FLOW			1,510	Jul 31	28,500	Sep 18, 1999
MAXIMUM PEAK STAGE			9.43	Jul 31	27.14*	Sep 18, 1999
INSTANTANEOUS LOW FLOW			59	Sep 14	8.5	Oct 13, 1954
ANNUAL RUNOFF (CFSM)	0.977		0.661		1.18	
ANNUAL RUNOFF (INCHES)	13.30		8.98		15.97	
10 PERCENT EXCEEDS	1,370		827		1,770	
50 PERCENT EXCEEDS	519		395		514	
90 PERCENT EXCEEDS	210		185		108	

* See REMARKS.



02107544 BLACK RIVER NEAR CURRIE, NC

LOCATION.--Lat 34°25'54", long 78°08'37", Pender County, Hydrologic Unit 03030005, at bridge on NC Highway 210, 3 mi above Moores Creek, and 3.25 mi southwest of Currie.

DRAINAGE AREA.--1,405 mi^2.

PERIOD OF RECORD.--March 2004 to November 2005 (discontinued).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929 (approximate). Satellite telemetry at station.

REMARKS.--Records fair. This site is strongly affected by astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge data for this site may be affected by aliasing due to tides and can contain fluctuations that are not representative of net downstream discharge.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft^3/s, Mar. 8, 2004, maximum gage height, 5.20 ft, Mar. 8, 2004; minimum discharge, -1,110 ft^3/s, Sept. 12, 2005.

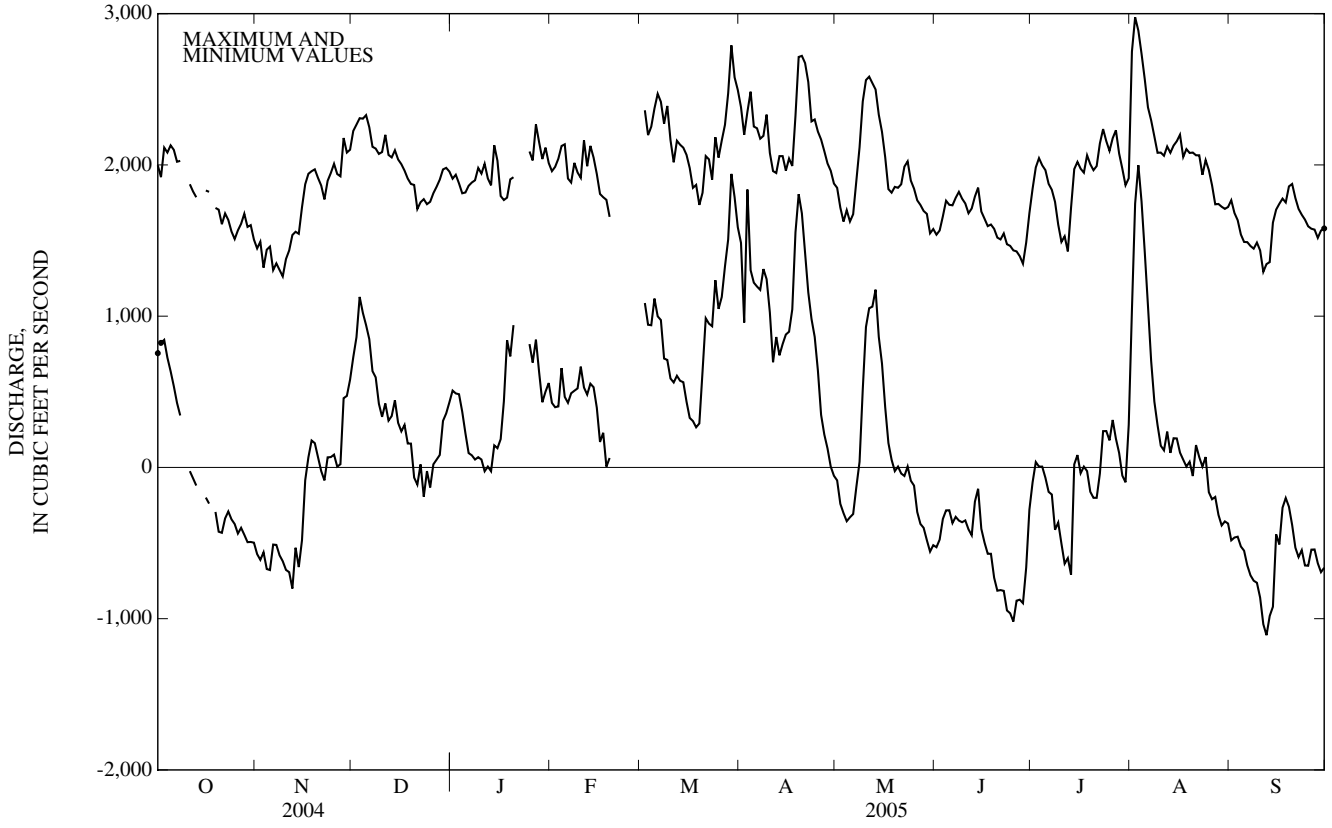
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	2,000	755	1,450	-573	2,220	728	1,910	508	1,960	427	---	---
2	1,920	824	1,490	-611	2,270	860	1,940	489	1,990	398	2,360	1,090
3	2,110	843	1,320	-561	2,310	1,130	1,880	484	2,040	403	2,200	943
4	2,080	726	1,440	-672	2,310	1,020	1,810	369	2,130	657	2,250	940
5	2,130	636	1,460	-679	2,330	940	1,820	226	2,140	466	2,370	1,120
6	2,100	536	1,300	-510	2,250	848	1,860	95	1,910	427	2,470	999
7	2,020	427	1,350	-512	2,120	637	1,880	80	1,880	490	2,420	974
8	2,030	343	1,310	-581	2,110	595	1,900	52	2,010	507	2,270	720
9	---	---	1,260	-620	2,070	421	1,980	68	1,950	523	2,390	711
10	---	---	1,380	-678	2,080	334	1,940	52	1,910	666	2,160	588
11	1,870	-25	1,430	-693	2,200	423	2,010	-25	2,160	528	2,020	562
12	1,820	-72	1,540	-801	2,070	310	1,910	5.6	1,990	482	2,160	606
13	1,790	-120	1,560	-531	2,050	340	1,860	-25	2,130	554	2,130	573
14	---	---	1,540	-659	2,100	444	2,130	146	2,050	530	2,110	563
15	---	---	1,720	-482	2,040	295	2,030	127	1,940	395	2,070	435
16	1,830	-199	1,870	-85	2,000	238	1,790	187	1,810	168	1,980	327
17	1,820	-239	1,940	67	1,960	281	1,770	437	1,790	229	1,850	306
18	---	---	1,960	178	1,910	158	1,780	841	1,770	5.2	1,870	265
19	1,720	-294	1,970	160	1,870	157	1,900	734	1,660	62	1,740	291
20	1,700	-425	1,910	67	1,870	-67	1,920	941	---	---	1,820	635
21	1,610	-432	1,860	-24	1,710	-114	---	---	---	---	2,060	986
22	1,680	-337	1,770	-86	1,750	20	---	---	---	---	2,040	951
23	1,640	-291	1,890	67	1,770	-193	---	---	---	---	1,900	934
24	1,560	-343	1,950	68	1,740	-24	---	---	---	---	2,180	1,240
25	1,510	-374	2,010	84	1,760	-132	2,090	815	---	---	2,050	1,050
26	1,570	-437	1,940	5.3	1,810	21	2,030	693	---	---	2,160	1,130
27	1,610	-399	1,920	21	1,860	51	2,270	845	---	---	2,270	1,330
28	1,680	-445	2,180	458	1,900	82	2,150	629	---	---	2,470	1,510
29	1,590	-494	2,080	473	1,970	308	2,040	431	---	---	2,790	1,940
30	1,600	-493	2,100	580	1,980	357	2,110	501	---	---	2,580	1,790
31	1,510	-498	---	---	1,960	431	2,010	558	---	---	2,500	1,590
MONTH	---	---	2,180	-801	2,330	-193	---	---	---	---	---	---

02107544 BLACK RIVER NEAR CURRIE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

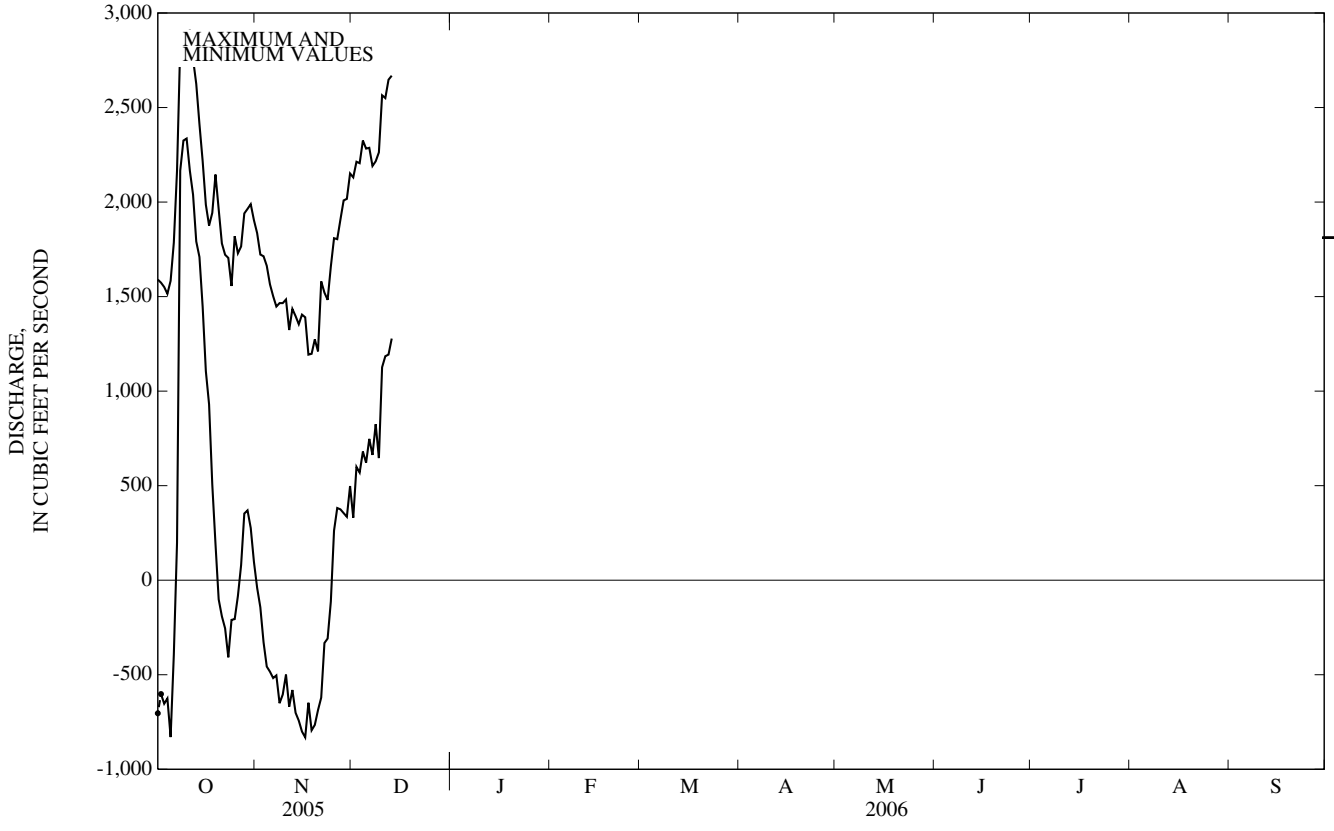
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2,380	1,480	1,850	-86	1,540	-528	1,840	-99	2,750	1,040	1,770	-482
2	2,200	958	1,720	-241	1,570	-477	1,980	36	2,980	1,740	1,680	-464
3	2,350	1,840	1,630	-302	1,660	-341	2,040	5.2	2,890	2,000	1,630	-458
4	2,480	1,300	1,700	-356	1,760	-284	2,000	5.5	2,730	1,760	1,540	-523
5	2,250	1,220	1,630	-330	1,740	-283	1,970	-69	2,570	1,420	1,490	-551
6	2,240	1,200	1,670	-308	1,730	-368	1,870	-161	2,380	1,070	1,490	-648
7	2,170	1,170	1,900	-129	1,780	-327	1,840	-179	2,290	703	1,460	-714
8	2,190	1,310	2,120	37	1,820	-351	1,760	-412	2,190	435	1,450	-749
9	2,330	1,240	2,420	515	1,780	-362	1,610	-364	2,080	279	1,490	-763
10	2,080	1,020	2,560	928	1,740	-350	1,490	-504	2,080	143	1,430	-860
11	1,960	695	2,580	1,050	1,680	-410	1,530	-636	2,060	113	1,290	-1,040
12	1,950	862	2,540	1,060	1,710	-448	1,430	-600	2,120	237	1,340	-1,110
13	2,060	741	2,500	1,180	1,790	-226	1,720	-710	2,080	96	1,360	-982
14	2,060	816	2,330	863	1,850	-141	1,970	20	2,130	193	1,620	-921
15	1,960	878	2,220	687	1,690	-406	2,020	82	2,160	192	1,700	-443
16	2,040	897	2,050	399	1,640	-497	1,970	-38	2,200	98	1,740	-509
17	1,990	1,050	1,840	162	1,600	-571	1,950	5.2	2,050	51	1,780	-266
18	2,320	1,550	1,820	50	1,610	-571	2,060	-24	2,100	5.7	1,750	-202
19	2,710	1,810	1,850	-24	1,580	-729	2,000	-161	2,080	37	1,860	-260
20	2,720	1,680	1,850	5.4	1,520	-815	1,970	-201	2,080	-57	1,870	-380
21	2,670	1,420	1,870	-40	1,510	-811	1,990	-201	2,060	148	1,780	-530
22	2,550	1,160	1,990	-56	1,550	-816	2,140	-40	2,060	68	1,710	-593
23	2,290	981	2,020	5.8	1,480	-946	2,240	240	1,930	5.8	1,670	-547
24	2,300	863	1,900	-88	1,460	-964	2,160	241	2,030	69	1,640	-648
25	2,220	640	1,840	-120	1,430	-1,020	2,090	179	1,970	-164	1,590	-650
26	2,170	347	1,770	-295	1,430	-881	2,180	314	1,870	-211	1,580	-544
27	2,090	217	1,740	-374	1,400	-874	2,230	190	1,740	-195	1,570	-543
28	2,010	125	1,700	-399	1,350	-898	2,080	95	1,740	-314	1,520	-634
29	1,960	5.5	1,680	-481	1,490	-662	1,980	-54	1,720	-384	1,570	-693
30	1,880	-55	1,550	-557	1,680	-279	1,870	-98	1,710	-357	1,580	-664
31	---	---	1,580	-514	---	---	1,910	282	1,720	-371	---	---
MONTH	2,720	-55	2,580	-557	1,850	-1,020	2,240	-710	2,980	-384	1,870	-1,110



02107544 BLACK RIVER NEAR CURRIE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	1,590	-704	1,840	-40	---	---	---	---	---	---	---	---
2	1,570	-602	1,720	-143	---	---	---	---	---	---	---	---
3	1,550	-653	1,710	-328	---	---	---	---	---	---	---	---
4	1,510	-625	1,660	-457	---	---	---	---	---	---	---	---
5	1,580	-830	1,570	-484	---	---	---	---	---	---	---	---
6	1,790	-394	1,500	-518	---	---	---	---	---	---	---	---
7	2,170	198	1,450	-503	---	---	---	---	---	---	---	---
8	2,830	2,170	1,470	-651	---	---	---	---	---	---	---	---
9	2,750	2,330	1,470	-605	---	---	---	---	---	---	---	---
10	2,780	2,340	1,480	-499	---	---	---	---	---	---	---	---
11	2,910	2,170	1,320	-669	---	---	---	---	---	---	---	---
12	2,760	2,040	1,430	-581	---	---	---	---	---	---	---	---
13	2,620	1,790	1,400	-701	---	---	---	---	---	---	---	---
14	2,410	1,710	1,350	-743	---	---	---	---	---	---	---	---
15	2,220	1,450	1,400	-801	---	---	---	---	---	---	---	---
16	1,990	1,110	1,390	-831	---	---	---	---	---	---	---	---
17	1,880	930	1,190	-648	---	---	---	---	---	---	---	---
18	1,940	506	1,200	-794	---	---	---	---	---	---	---	---
19	2,150	193	1,270	-765	---	---	---	---	---	---	---	---
20	1,960	-101	1,210	-687	---	---	---	---	---	---	---	---
21	1,780	-191	1,580	-621	---	---	---	---	---	---	---	---
22	1,720	-255	1,520	-332	---	---	---	---	---	---	---	---
23	1,700	-408	1,480	-309	---	---	---	---	---	---	---	---
24	1,560	-210	1,660	-113	---	---	---	---	---	---	---	---
25	1,820	-206	1,810	262	---	---	---	---	---	---	---	---
26	1,730	-83	1,800	382	---	---	---	---	---	---	---	---
27	1,760	79	1,910	375	---	---	---	---	---	---	---	---
28	1,940	353	2,010	355	---	---	---	---	---	---	---	---
29	1,960	369	2,020	335	---	---	---	---	---	---	---	---
30	1,990	276	2,150	498	---	---	---	---	---	---	---	---
31	1,900	97	---	---	---	---	---	---	---	---	---	---
MONTH	2,910	-830	2,150	-831	---	---	---	---	---	---	---	---



02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'44", long 77°49'56", Duplin County, Hydrologic Unit 03030007, on right bank 540 ft downstream of bridge on State Highway 41, 0.5 mi downstream of Muddy Creek, and 1.2 mi west of Chinquapin.

DRAINAGE AREA.--599 mi^2.

PERIOD OF RECORD.--July 1940 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred Oct. 11, 1954. Minimum discharge for current water year also occurred Sept. 14.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than the flood in 1908, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	118	992	599	637	1,040	875	154	127	1,230	409	43
2	331	112	913	541	633	1,070	970	142	134	1,240	631	37
3	318	108	816	500	587	1,020	1,200	130	184	1,270	599	32
4	310	104	724	466	601	894	1,220	120	249	994	462	27
5	295	111	647	437	629	753	1,140	111	351	786	397	23
6	276	120	579	417	614	636	1,010	233	381	568	387	20
7	252	118	522	398	575	557	831	863	324	346	353	17
8	223	114	478	375	523	508	875	1,220	274	213	281	15
9	197	112	441	354	473	487	946	1,390	225	147	211	13
10	176	109	487	332	459	459	885	1,440	237	115	183	12
11	157	106	578	315	448	433	783	1,360	354	91	179	10
12	140	112	584	302	420	410	664	1,170	375	77	238	9.7
13	130	325	573	294	392	384	574	1,120	335	71	179	9.4
14	126	643	531	366	363	354	883	1,060	257	74	131	20
15	152	888	472	780	342	327	1,270	821	188	85	108	109
16	231	987	421	969	331	313	1,390	617	141	96	96	227
17	275	961	382	1,050	320	388	1,390	568	110	107	103	313
18	291	829	357	1,010	315	563	1,250	511	88	106	95	296
19	275	658	335	875	302	685	1,020	443	76	99	88	242
20	236	527	318	745	284	739	799	366	64	82	75	189
21	205	442	300	674	274	755	655	386	53	119	68	149
22	185	376	288	617	285	730	547	408	46	233	71	125
23	171	363	289	575	290	774	455	402	42	289	78	106
24	162	510	376	524	351	904	382	374	36	273	81	89
25	153	641	414	472	662	1,010	324	329	32	205	79	85
26	146	695	460	436	897	1,110	278	310	36	136	85	73
27	145	668	715	409	938	1,090	244	280	98	91	85	68
28	138	744	807	377	936	1,040	214	238	82	70	75	64
29	130	921	808	348	---	1,110	188	190	194	60	66	61
30	126	997	752	391	---	1,080	168	154	905	71	56	65
31	122	---	674	549	---	970	---	137	---	177	49	---
TOTAL	6,393	13,519	17,033	16,497	13,881	22,593	23,430	17,047	5,998	9,521	5,998	2,549.1
MEAN	206	451	549	532	496	729	781	550	200	307	193	85.0
MAX	331	997	992	1,050	938	1,110	1,390	1,440	905	1,270	631	313
MIN	122	104	288	294	274	313	168	111	32	60	49	9.4
CFSM	0.34	0.75	0.92	0.89	0.83	1.22	1.30	0.92	0.33	0.51	0.32	0.14
IN.	0.40	0.84	1.06	1.02	0.86	1.40	1.46	1.06	0.37	0.59	0.37	0.16

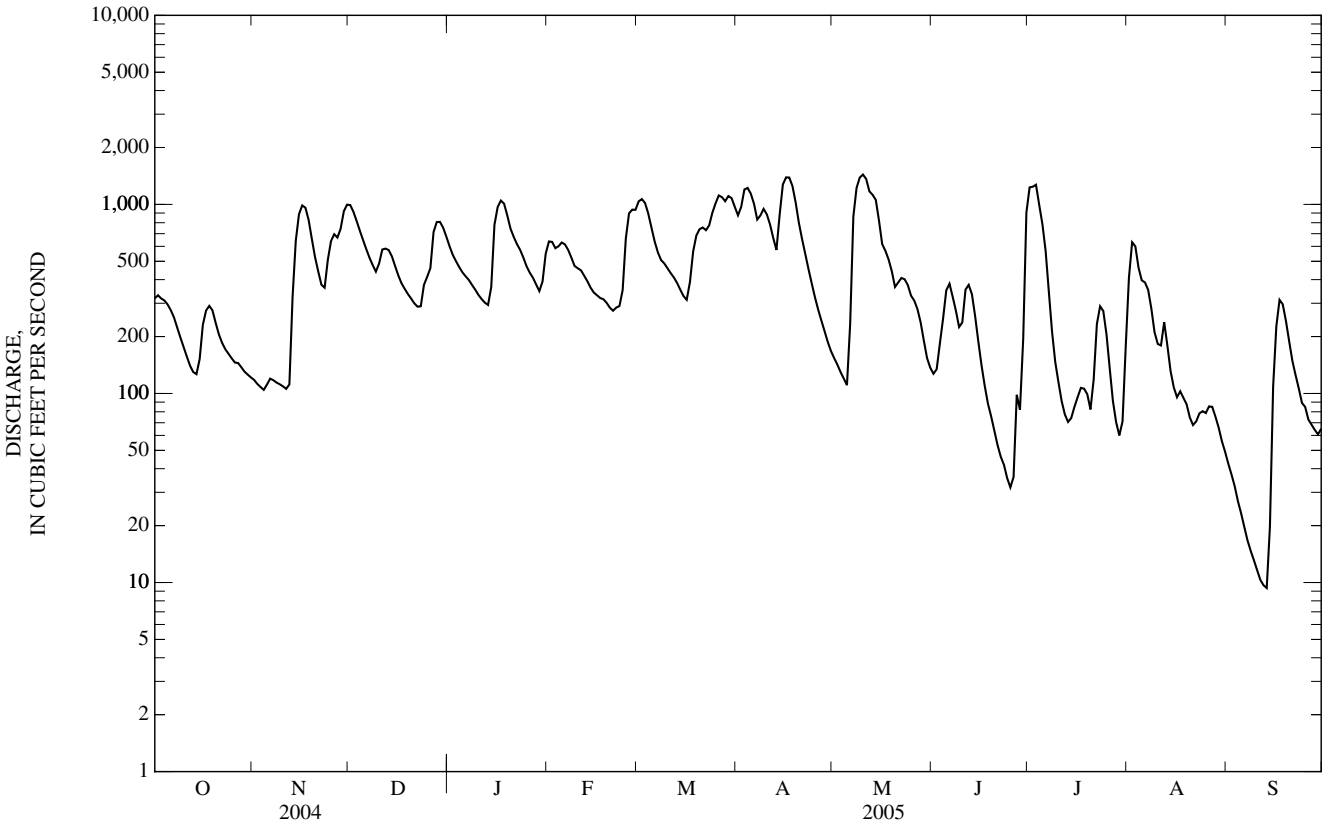
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	454	430	660	1,035	1,187	1,224	847	476	410	566	673	672
MAX	3,237	1,852	2,225	2,548	4,399	3,506	2,958	1,901	1,953	3,922	2,681	7,329
(WY)	(2000)	(1948)	(1949)	(1993)	(1998)	(1983)	(1973)	(1969)	(1961)	(1962)	(1955)	(1999)
MIN	7.59	15.6	59.6	158	249	261	145	64.9	17.3	25.9	13.8	11.0
(WY)	(1955)	(1955)	(1955)	(1955)	(1955)	(1955)	(1986)	(1995)	(1994)	(1954)	(1954)	(1954)

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	239,051		154,459.1			
ANNUAL MEAN	653		423		719	
HIGHEST ANNUAL MEAN					1,243	1973
LOWEST ANNUAL MEAN					279	1951
HIGHEST DAILY MEAN	4,150	Aug 17	1,440	May 10	29,900	Sep 18, 1999
LOWEST DAILY MEAN	46	Aug 1	9.4	Sep 13	5.3	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	63	Jul 27	12	Sep 7	5.5	Oct 8, 1954
MAXIMUM PEAK FLOW			1,440	May 10	30,700	Sep 18, 1999
MAXIMUM PEAK STAGE			8.94	May 10	23.51	Sep 18, 1999
INSTANTANEOUS LOW FLOW			8.9*	Sep 13	5.3*	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	1.09		0.706		1.20	
ANNUAL RUNOFF (INCHES)	14.85		9.59		16.30	
10 PERCENT EXCEEDS	1,400		969		1,690	
50 PERCENT EXCEEDS	474		332		406	
90 PERCENT EXCEEDS	130		75		60	

* See REMARKS.



02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC

LOCATION.--Lat 34°35'54", long 77°52'31", Pender County, Hydrologic Unit 03030007, on left bank at State Highway 53 bridge, 3.9 mi above Holly Shelter Creek and 4.5 mi east of Burgaw.

DRAINAGE AREA.--920 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1999 to November 2003, October 2004 to September 2005 (elevation), November 2003 to November 2005 (discharge). Records for September 1999 are unpublished and available in the USGS Water Science Center, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is at NGVD 1929. Satellite telemetry at station.

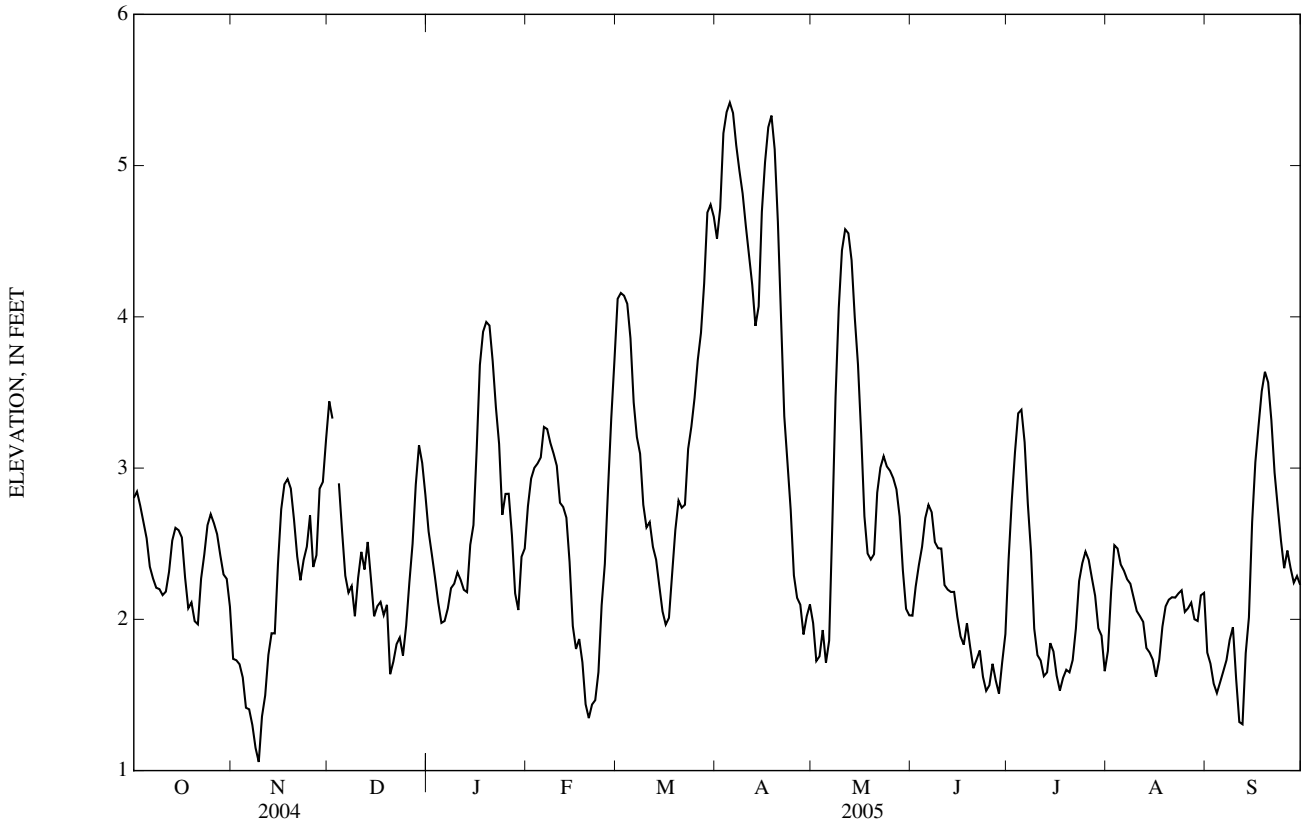
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 22.77 ft, Sept. 20, 1999; minimum elevation, -0.18 ft, Jan 2, 2002; maximum discharge, 6,830 ft^3/s, Oct. 13, 2005; minimum discharge, -567 ft^3/s, Sept. 4, 2005.

REMARKS.--This site is strongly affected by astronomical and wind tides. The astronomical tides occur at primary harmonic periods of 12.42 hours and 24.8 hours. Mean daily discharge for this site may be affected by aliasing due to tides and can contain flucuations that are not representative of net downstream discharge.

ELEVATION, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.80	1.74	3.44	2.58	2.75	4.12	4.52	1.97	2.02	2.40	1.79	1.78
2	2.84	1.73	3.33	2.43	2.93	4.16	4.72	1.72	2.22	2.79	2.19	1.71
3	2.75	1.70	---	2.28	3.00	4.14	5.21	1.76	2.36	3.11	2.49	1.57
4	2.64	1.62	2.90	2.11	3.03	4.09	5.35	1.93	2.48	3.36	2.47	1.51
5	2.54	1.42	2.58	1.98	3.07	3.86	5.42	1.71	2.67	3.39	2.36	1.58
6	2.35	1.41	2.29	1.99	3.27	3.43	5.35	1.86	2.76	3.17	2.32	1.66
7	2.27	1.30	2.18	2.07	3.26	3.21	5.13	2.64	2.71	2.76	2.26	1.73
8	2.21	1.15	2.22	2.21	3.17	3.10	4.97	3.47	2.51	2.45	2.24	1.86
9	2.20	1.06	2.02	2.24	3.10	2.76	4.82	4.06	2.47	1.94	2.15	1.95
10	2.16	1.36	2.27	2.31	3.02	2.61	4.60	4.44	2.47	1.76	2.05	1.61
11	2.18	1.50	2.45	2.26	2.77	2.64	4.41	4.58	2.23	1.73	2.02	1.32
12	2.31	1.77	2.33	2.20	2.74	2.48	4.21	4.55	2.20	1.62	1.98	1.31
13	2.52	1.91	2.51	2.18	2.67	2.39	3.94	4.37	2.18	1.65	1.81	1.78
14	2.61	1.91	2.27	2.49	2.38	2.22	4.07	3.99	2.18	1.84	1.78	2.01
15	2.59	2.37	2.02	2.62	1.96	2.05	4.69	3.68	2.02	1.79	1.73	2.64
16	2.54	2.73	2.09	3.12	1.80	1.97	5.02	3.22	1.89	1.63	1.62	3.04
17	2.28	2.89	2.12	3.68	1.87	2.01	5.25	2.68	1.83	1.53	1.73	3.28
18	2.07	2.93	2.03	3.90	1.72	2.30	5.33	2.44	1.97	1.61	1.95	3.51
19	2.11	2.86	2.10	3.97	1.44	2.59	5.11	2.40	1.82	1.67	2.09	3.64
20	1.99	2.66	1.64	3.94	1.35	2.79	4.63	2.43	1.68	1.65	2.13	3.57
21	1.97	2.42	1.72	3.71	1.44	2.74	3.99	2.84	1.73	1.73	2.15	3.32
22	2.27	2.26	1.84	3.40	1.47	2.76	3.34	3.00	1.79	1.94	2.14	2.97
23	2.43	2.39	1.88	3.16	1.65	3.13	3.03	3.08	1.62	2.25	2.17	2.74
24	2.62	2.48	1.76	2.69	2.09	3.27	2.72	3.01	1.53	2.37	2.19	2.52
25	2.70	2.69	1.96	2.83	2.37	3.46	2.29	2.98	1.56	2.45	2.05	2.34
26	2.64	2.35	2.24	2.83	2.86	3.71	2.14	2.93	1.71	2.39	2.07	2.45
27	2.56	2.42	2.50	2.56	3.33	3.89	2.10	2.86	1.60	2.27	2.11	2.34
28	2.42	2.86	2.89	2.17	3.71	4.22	1.90	2.68	1.51	2.16	2.00	2.24
29	2.30	2.91	3.15	2.06	---	4.69	2.02	2.32	1.72	1.94	1.99	2.29
30	2.27	3.19	3.03	2.41	---	4.74	2.10	2.07	1.90	1.89	2.16	2.23
31	2.08	---	2.82	2.47	---	4.66	---	2.03	---	1.66	2.18	---
MEAN	2.39	2.13	---	2.67	2.51	3.23	4.08	2.89	2.04	2.16	2.08	2.28
MAX	2.84	3.19	---	3.97	3.71	4.74	5.42	4.58	2.76	3.39	2.49	3.64
MIN	1.97	1.06	---	1.98	1.35	1.97	1.90	1.71	1.51	1.53	1.62	1.31

02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC—Continued



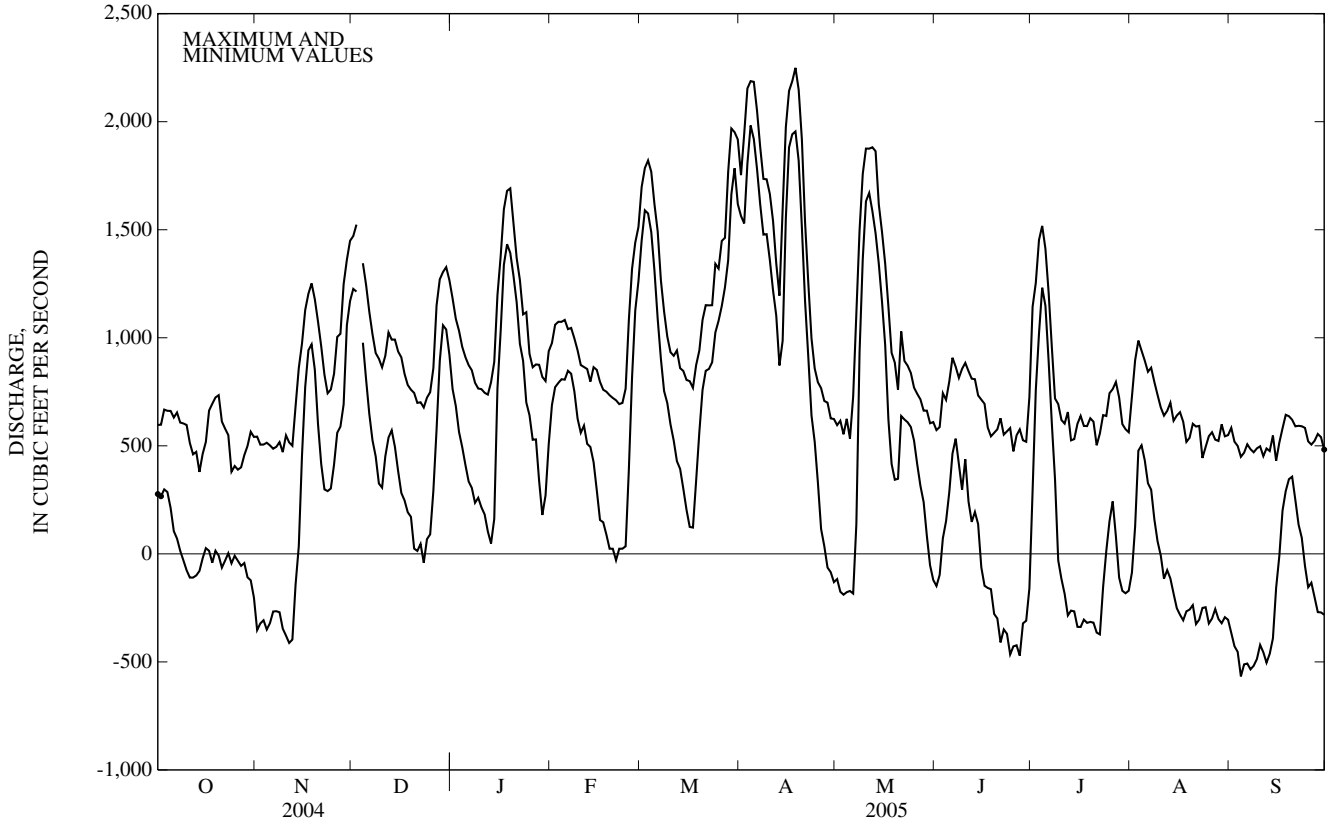
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	597	277	543	-353	1,470	1,230	1,180	763	975	688	1,700	1,450
2	598	266	505	-322	1,520	1,210	1,090	685	1,060	771	1,790	1,590
3	668	298	506	-307	---	---	1,030	564	1,070	791	1,820	1,580
4	662	286	514	-350	1,350	977	958	494	1,070	808	1,770	1,490
5	661	212	502	-321	1,240	807	910	412	1,080	806	1,620	1,310
6	631	105	486	-267	1,120	648	874	335	1,040	847	1,490	1,090
7	654	71	495	-265	1,020	526	849	305	1,050	834	1,270	903
8	608	14	517	-270	929	451	792	236	997	752	1,120	753
9	604	-31	471	-346	903	325	765	260	942	626	1,010	698
10	596	-76	548	-378	863	306	762	215	874	560	933	599
11	513	-110	516	-412	917	451	745	182	865	594	917	524
12	461	-110	500	-397	1,020	538	737	103	855	509	941	429
13	472	-100	684	-142	991	572	794	48	797	495	859	393
14	379	-79	860	35	992	495	888	162	864	424	846	301
15	462	-21	973	454	936	383	1,200	766	851	293	805	204
16	518	26	1,130	773	909	282	1,380	1,030	796	157	799	125
17	663	14	1,200	942	833	247	1,590	1,340	760	146	768	122
18	694	-41	1,250	970	781	193	1,680	1,430	750	89	874	339
19	724	14	1,180	852	760	171	1,690	1,390	734	24	941	564
20	734	-8.1	1,070	600	745	24	1,530	1,290	721	24	1,080	759
21	612	-64	961	416	699	13	1,370	1,160	711	-30	1,150	847
22	579	-31	829	298	702	46	1,270	972	693	24	1,150	856
23	549	2.9	743	290	677	-41	1,110	893	698	24	1,150	887
24	380	-44	761	302	723	68	1,120	701	764	35	1,340	1,020
25	407	-8.8	833	413	748	91	926	641	1,080	388	1,320	1,080
26	390	-32	1,000	560	859	292	863	528	1,320	815	1,450	1,150
27	400	-56	1,020	589	1,150	576	877	530	1,440	1,130	1,460	1,230
28	457	-43	1,250	692	1,270	892	875	337	1,510	1,260	1,770	1,360
29	500	-109	1,360	1,060	1,300	1,060	819	180	---	---	1,970	1,660
30	565	-122	1,450	1,170	1,330	1,040	800	270	---	---	1,950	1,780
31	541	-203	---	---	1,270	922	938	508	---	---	1,920	1,620
MONTH	734	-203	1,450	-412	---	---	1,690	48	1,510	-30	1,970	122

02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

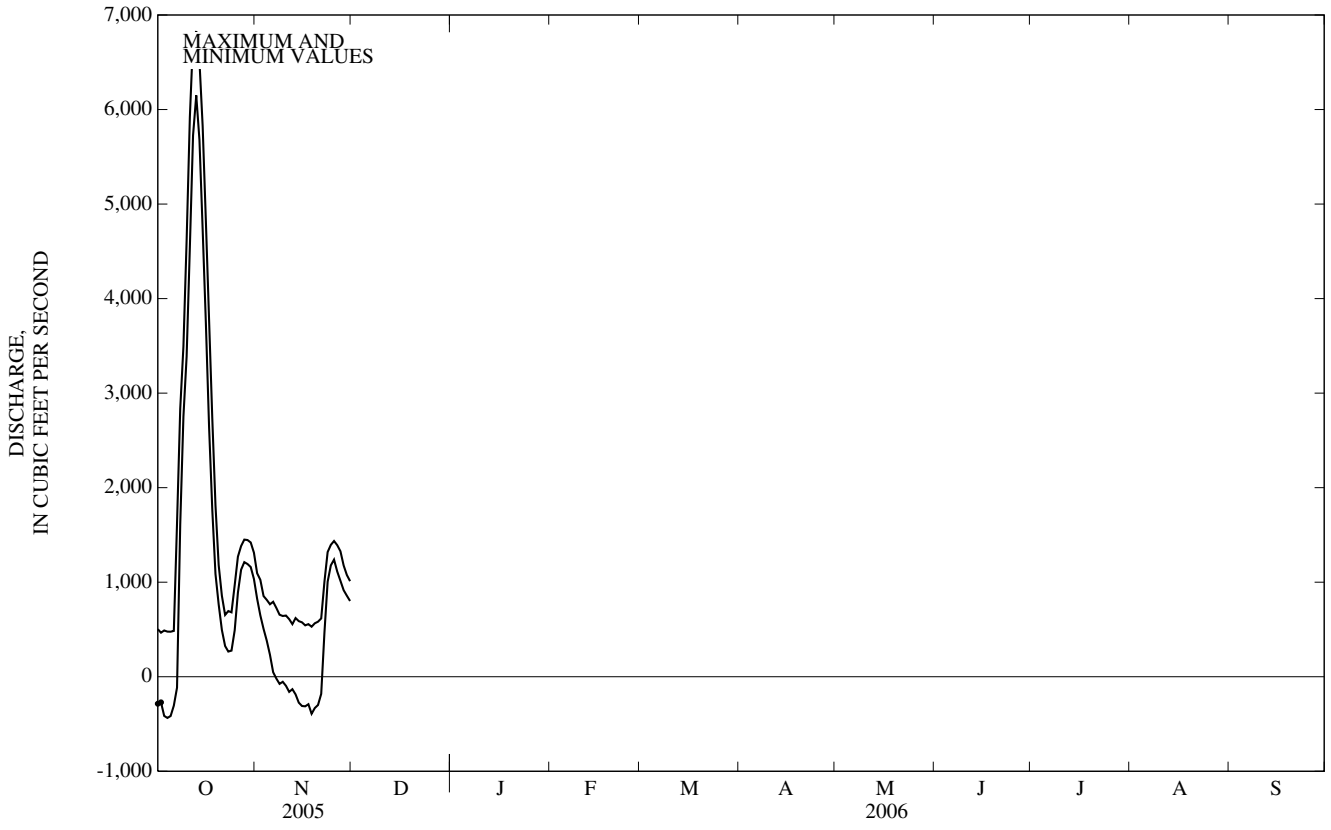
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1,750	1,560	596	-117	573	-149	1,140	291	728	-87	583	-366
2	1,940	1,530	616	-175	587	-98	1,250	758	896	127	519	-427
3	2,150	1,810	553	-189	744	72	1,450	1,020	987	477	499	-454
4	2,190	1,980	625	-177	713	152	1,520	1,230	940	502	449	-567
5	2,180	1,920	534	-172	798	286	1,410	1,150	894	433	468	-512
6	2,050	1,780	727	-184	908	464	1,210	893	842	327	507	-508
7	1,880	1,620	1,110	138	866	533	958	604	862	297	484	-535
8	1,740	1,480	1,500	933	814	415	719	345	795	160	470	-518
9	1,730	1,480	1,760	1,360	856	296	693	-30	736	58	488	-487
10	1,670	1,360	1,880	1,630	884	438	619	-116	677	-8.1	498	-421
11	1,540	1,220	1,880	1,670	845	242	603	-185	640	-115	452	-455
12	1,340	1,100	1,880	1,590	811	148	656	-285	662	-75	488	-504
13	1,190	872	1,860	1,480	808	194	525	-263	699	-114	476	-463
14	1,600	986	1,620	1,340	733	138	531	-266	616	-184	547	-391
15	1,980	1,550	1,490	1,170	714	-62	602	-338	640	-251	431	-157
16	2,140	1,880	1,340	966	694	-148	638	-338	656	-282	515	-9.0
17	2,190	1,940	1,140	621	585	-158	592	-304	611	-308	581	201
18	2,250	1,950	930	416	544	-164	591	-319	518	-266	644	291
19	2,150	1,820	885	343	560	-278	627	-315	537	-258	637	346
20	1,920	1,510	759	348	577	-299	612	-318	602	-237	621	357
21	1,530	1,170	1,030	638	627	-410	503	-364	589	-325	590	249
22	1,260	913	893	622	552	-350	557	-373	592	-304	592	135
23	997	640	871	609	567	-370	642	-154	444	-250	590	74
24	858	518	837	587	583	-466	638	14	495	-247	583	-56
25	794	329	769	524	474	-428	743	151	544	-322	521	-155
26	767	115	740	414	548	-423	762	243	563	-299	506	-134
27	708	36	715	314	576	-471	795	81	528	-255	523	-201
28	700	-63	663	240	526	-322	724	-110	522	-302	555	-270
29	627	-85	663	83	519	-309	601	-171	599	-321	540	-271
30	624	-131	604	-53	726	-159	577	-182	544	-293	483	-282
31	---	---	610	-121	---	---	563	-171	549	-305	---	---
MONTH	2,250	-131	1,880	-189	908	-471	1,520	-373	987	-325	644	-567



02108566 NORTHEAST CAPE FEAR RIVER NEAR BURGAW, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	503	-286	1,090	825	---	---	---	---	---	---	---	---
2	466	-271	1,030	649	---	---	---	---	---	---	---	---
3	489	-414	853	506	---	---	---	---	---	---	---	---
4	477	-436	813	381	---	---	---	---	---	---	---	---
5	476	-415	766	232	---	---	---	---	---	---	---	---
6	485	-306	793	48	---	---	---	---	---	---	---	---
7	1,620	-115	727	-19	---	---	---	---	---	---	---	---
8	2,830	1,610	656	-75	---	---	---	---	---	---	---	---
9	3,490	2,750	643	-54	---	---	---	---	---	---	---	---
10	4,620	3,390	647	-96	---	---	---	---	---	---	---	---
11	5,920	4,540	609	-160	---	---	---	---	---	---	---	---
12	6,740	5,730	556	-132	---	---	---	---	---	---	---	---
13	6,830	6,150	621	-187	---	---	---	---	---	---	---	---
14	6,510	5,680	588	-274	---	---	---	---	---	---	---	---
15	5,830	4,730	575	-309	---	---	---	---	---	---	---	---
16	4,830	3,750	544	-313	---	---	---	---	---	---	---	---
17	3,780	2,640	556	-291	---	---	---	---	---	---	---	---
18	2,740	1,770	529	-392	---	---	---	---	---	---	---	---
19	1,810	1,090	565	-331	---	---	---	---	---	---	---	---
20	1,180	765	582	-299	---	---	---	---	---	---	---	---
21	857	495	617	-181	---	---	---	---	---	---	---	---
22	654	325	1,000	466	---	---	---	---	---	---	---	---
23	695	266	1,320	1,000	---	---	---	---	---	---	---	---
24	681	276	1,390	1,180	---	---	---	---	---	---	---	---
25	969	492	1,440	1,240	---	---	---	---	---	---	---	---
26	1,270	888	1,390	1,110	---	---	---	---	---	---	---	---
27	1,380	1,130	1,330	1,010	---	---	---	---	---	---	---	---
28	1,450	1,210	1,180	916	---	---	---	---	---	---	---	---
29	1,450	1,190	1,080	857	---	---	---	---	---	---	---	---
30	1,420	1,160	1,010	801	---	---	---	---	---	---	---	---
31	1,310	1,030	---	---	---	---	---	---	---	---	---	---
MONTH	6,830	-436	1,440	-392	---	---	---	---	---	---	---	---



02109500 WACCAMAW RIVER AT FREELAND, NC

LOCATION.--Lat 34°05'42", long 78°32'54", Brunswick County, Hydrologic Unit 03040206, on left bank 150 ft downstream of New Britton bridge on State Highway 130, 1 mi southwest of Freeland, 7 mi downstream of Juniper Creek, and 117 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--680 mi^2.

PERIOD OF RECORD.--July 1939 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 15.52 ft above NGVD of 1929. Prior to July 15, 1943, nonrecording gage 150 ft upstream at same datum. Auxiliary nonrecording gage 3.3 mi downstream of base gage Oct. 7, 1949, to July 14, 1952. Since July 15, 1952, auxiliary water-stage recorder at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 9, 19, 28, and Oct. 4-14, 1954.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e815	176	277	398	370	389	974	124	342	170	118	408
2	e830	165	277	389	369	417	1,010	113	392	172	141	379
3	e830	153	272	380	365	426	1,030	103	483	154	152	331
4	e820	145	271	378	375	433	1,050	94	609	141	157	278
5	e805	141	283	378	395	446	1,060	e88	784	156	152	232
6	766	137	308	379	408	473	1,040	e152	972	169	141	196
7	735	132	337	376	410	509	1,000	e390	1,130	168	141	166
8	703	127	359	374	405	538	970	e505	1,230	166	158	143
9	668	121	376	373	398	559	936	e555	1,250	163	167	125
10	635	113	386	370	395	567	905	e562	1,210	159	166	107
11	597	108	393	365	392	565	867	e527	1,140	164	162	93
12	558	106	396	356	386	553	828	e456	1,050	158	152	83
13	521	114	392	347	375	526	782	e376	944	167	141	80
14	483	127	380	346	368	483	735	307	831	210	131	127
15	453	133	366	398	363	447	682	292	735	234	127	382
16	434	135	350	449	357	416	623	261	632	247	129	538
17	418	132	336	484	351	435	578	241	528	269	132	611
18	403	128	319	493	341	475	534	263	424	275	138	660
19	390	123	304	484	327	491	491	324	345	277	149	692
20	375	118	287	459	312	495	450	350	284	264	153	692
21	357	111	273	440	300	482	409	341	234	245	155	721
22	338	105	262	422	292	464	371	367	194	223	154	732
23	316	109	254	411	286	458	333	413	160	198	163	701
24	296	135	247	401	284	479	295	439	131	169	223	661
25	279	160	244	389	300	503	260	459	111	147	269	619
26	268	170	255	382	316	515	223	458	111	130	281	572
27	248	171	301	378	322	525	196	446	113	117	269	528
28	229	200	342	372	343	594	174	416	105	105	265	489
29	212	246	373	366	---	744	155	376	114	101	297	449
30	199	267	391	365	---	835	138	341	140	97	356	409
31	187	---	399	366	---	920	---	326	---	96	400	---
TOTAL	15,168	4,308	10,010	12,268	9,905	16,162	19,099	10,465	16,728	5,511	5,739	12,204
MEAN	489	144	323	396	354	521	637	338	558	178	185	407
MAX	830	267	399	493	410	920	1,060	562	1,250	277	400	732
MIN	187	105	244	346	284	389	138	88	105	96	118	80
CFSM	0.72	0.21	0.47	0.58	0.52	0.77	0.94	0.50	0.82	0.26	0.27	0.60
IN.	0.83	0.24	0.55	0.67	0.54	0.88	1.04	0.57	0.92	0.30	0.31	0.67

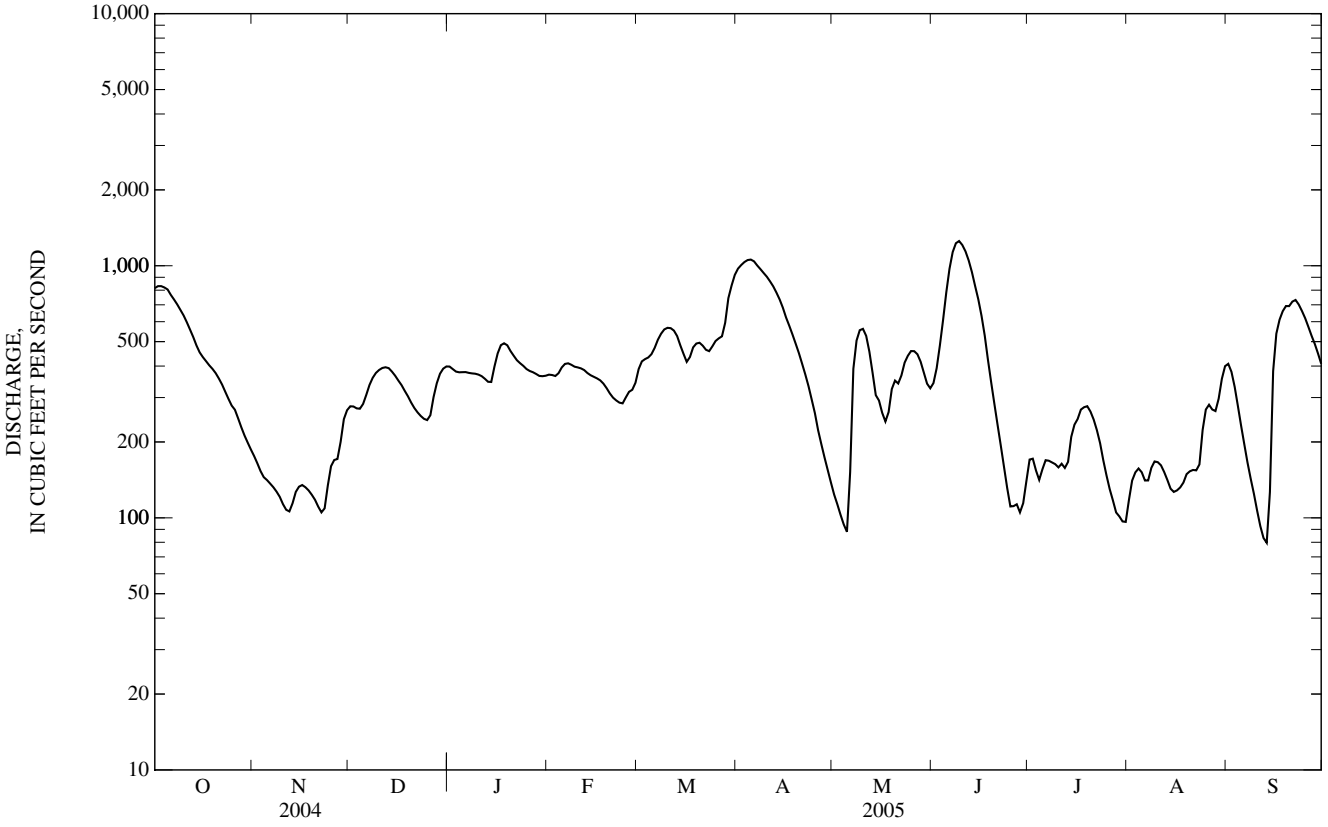
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	516	349	482	1,006	1,345	1,412	961	373	310	495	650	841
MAX	5,778	2,332	3,080	3,722	5,574	5,319	2,895	3,586	1,474	3,040	2,740	8,449
(WY)	(2000)	(1978)	(1949)	(1993)	(1998)	(1983)	(1973)	(1999)	(1969)	(1961)	(1981)	(1999)
MIN	1.14	0.54	3.53	20.6	44.6	219	108	16.2	5.51	2.27	7.59	0.31
(WY)	(1941)	(1955)	(1955)	(1955)	(1941)	(1955)	(2002)	(2002)	(1952)	(2002)	(1954)	(1954)

02109500 WACCAMAW RIVER AT FREELAND, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	248,941.4		137,567			
ANNUAL MEAN	680		377		726	
HIGHEST ANNUAL MEAN					1,572	1999
LOWEST ANNUAL MEAN					86.2	2002
HIGHEST DAILY MEAN	3,600	Aug 20	1,250	Jun 9	30,600	Sep 21, 1999
LOWEST DAILY MEAN	7.5	Jul 23	80	Sep 13	0.10	Aug 30, 1954
ANNUAL SEVEN-DAY MINIMUM	8.0	Jul 18	108	Sep 8	0.10	Oct 4, 1954
MAXIMUM PEAK FLOW			1,280	Jun 9	31,200	Sep 21, 1999
MAXIMUM PEAK STAGE			11.88	Jun 9	19.30	Sep 21, 1999
INSTANTANEOUS LOW FLOW			75	Sep 13	0.10*	Aug 30, 1954
ANNUAL RUNOFF (CFSM)	1.00		0.554		1.07	
ANNUAL RUNOFF (INCHES)	13.62		7.53		14.50	
10 PERCENT EXCEEDS	2,240		725		1,890	
50 PERCENT EXCEEDS	302		351		356	
90 PERCENT EXCEEDS	25		129		27	

* See REMARKS.
e Estimated



02111000 YADKIN RIVER AT PATTERSON, NC

LOCATION.--Lat 35°59'27", long 81°33'30", Caldwell County, Hydrologic Unit 03040101, on left bank 200 ft upstream from bridge on State Highway 268, 0.4 mi upstream from Warrior Creek, 0.5 mi south of Patterson, 2.0 mi downstream of Walnut Branch, and at mile 416.

DRAINAGE AREA.--28.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1303: 1940(m), 1947-48(M). WSP 1553: 1948(P). WDR NC-80-1: 1975(P), drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,211.47 ft above NGVD of 1929. Prior to Feb. 9, 1940, nonrecording gage at present site, at datum 1,212.47 ft. Feb. 9, 1940, to Oct. 20, 1970, recording gage at present site, at datum 1,212.47 ft. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge, for period of record, from rating curve extended above 1,400 ft^3/s on basis of computation of peak flow over dam 1 mi upstream at gage heights 4.58, 6.60, 7.70, and 12.70 ft. Minimum discharge for current water year also occurred Sept. 25, 29, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	56	83	61	55	64	80	50	40	52	54	43
2	76	55	73	58	53	55	140	48	75	65	47	39
3	71	54	70	57	63	53	115	46	51	85	45	37
4	67	110	67	56	61	53	97	45	45	76	43	35
5	63	86	63	55	57	57	85	47	41	61	41	34
6	60	71	63	54	55	59	76	45	39	53	41	33
7	57	65	65	52	54	56	73	44	62	298	47	33
8	56	60	61	53	54	59	78	43	91	207	49	32
9	55	56	86	50	53	53	73	41	78	106	49	31
10	54	54	101	50	51	51	66	42	103	79	49	30
11	52	53	93	49	49	50	63	42	88	75	44	30
12	51	110	82	48	48	49	61	48	73	82	40	29
13	68	98	76	57	49	48	76	47	336	68	38	29
14	62	79	69	218	51	50	115	46	171	65	43	28
15	53	72	65	110	49	47	84	62	97	74	40	28
16	50	67	63	88	48	49	74	53	75	118	38	28
17	49	63	61	77	46	55	69	45	63	126	47	29
18	48	61	60	69	45	50	65	43	57	141	252	27
19	55	59	58	67	45	49	62	42	64	183	132	26
20	51	57	55	66	47	48	59	54	65	180	81	26
21	49	55	56	63	51	47	57	44	72	133	63	25
22	50	54	52	61	48	48	65	41	56	100	56	25
23	56	64	206	57	46	76	63	42	50	82	51	25
24	56	160	144	e56	52	68	55	39	47	70	48	24
25	52	168	105	54	48	61	53	38	45	63	44	25
26	50	110	90	54	46	57	52	37	44	57	42	28
27	53	92	80	51	46	61	53	36	42	53	40	27
28	70	87	73	49	72	265	49	36	42	53	39	24
29	68	76	69	e49	---	164	59	35	57	76	47	24
30	66	72	66	e51	---	110	53	35	56	60	63	23
31	61	---	63	58	---	89	---	34	---	61	55	---
TOTAL	1,811	2,324	2,418	1,998	1,442	2,101	2,170	1,350	2,225	3,002	1,768	877
MEAN	58.4	77.5	78.0	64.5	51.5	67.8	72.3	43.5	74.2	96.8	57.0	29.2
MAX	82	168	206	218	72	265	140	62	336	298	252	43
MIN	48	53	52	48	45	47	49	34	39	52	38	23
CFSM	2.03	2.69	2.71	2.24	1.79	2.35	2.51	1.51	2.58	3.36	1.98	1.02
IN.	2.34	3.00	3.12	2.58	1.86	2.71	2.80	1.74	2.87	3.88	2.28	1.13

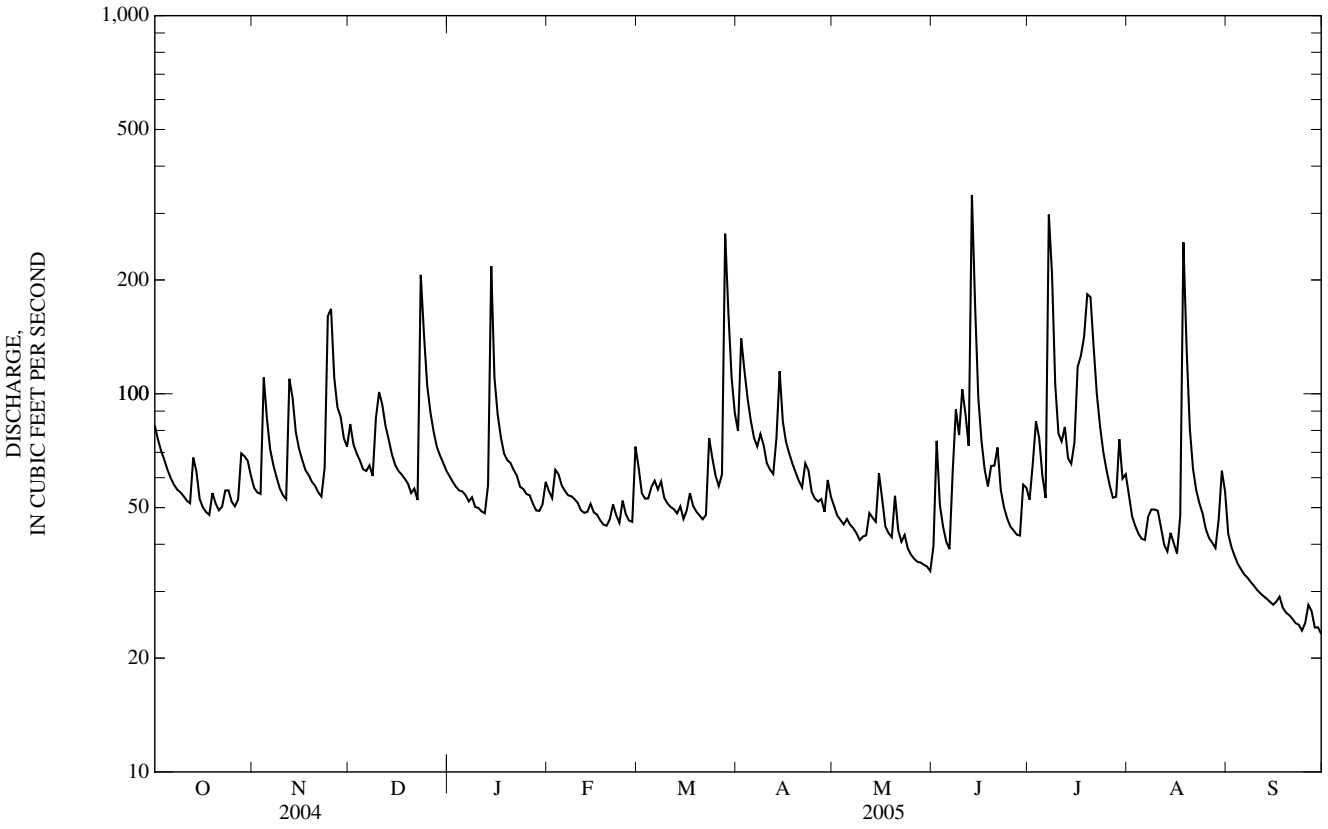
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	35.9	41.4	45.7	50.8	60.6	72.1	69.0	53.5	49.3	40.9	44.4	37.3
MAX	149	140	98.8	132	143	160	164	125	132	122	194	168
(WY)	(1991)	(1978)	(1974)	(1946)	(1960)	(1993)	(1980)	(1973)	(2003)	(2003)	(1940)	(2004)
MIN	8.45	9.07	11.8	11.4	17.4	23.7	26.5	16.5	13.0	9.04	6.69	6.95
(WY)	(1955)	(1982)	(1956)	(1956)	(2001)	(1988)	(1981)	(2001)	(2002)	(1988)	(2002)	(1954)

02111000 YADKIN RIVER AT PATTERSON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	24,027		23,486			
ANNUAL MEAN	65.6		64.3		50.0	
HIGHEST ANNUAL MEAN					78.6	2003
LOWEST ANNUAL MEAN					21.0	2001
HIGHEST DAILY MEAN	1,400	Sep 8	336	Jun 13	2,130	Aug 13, 1940
LOWEST DAILY MEAN	23	Aug 9	23	Sep 30	3.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Aug 4	25	Sep 24	4.1	Sep 7, 2002
MAXIMUM PEAK FLOW			1,440	Jun 13	16,200*	Aug 13, 1940
MAXIMUM PEAK STAGE			5.40	Jun 13	12.70	Aug 13, 1940
INSTANTANEOUS LOW FLOW			23*	Sep 24	3.0	May 15, 1940
ANNUAL RUNOFF (CFSM)	2.28		2.23		1.74	
ANNUAL RUNOFF (INCHES)	31.03		30.34		23.59	
10 PERCENT EXCEEDS	96		92		88	
50 PERCENT EXCEEDS	50		55		37	
90 PERCENT EXCEEDS	34		38		16	

* See REMARKS.
e Estimated.



02111000 YADKIN RIVER AT PATTERSON, NC—Continued

PRECIPITATION RECORDS

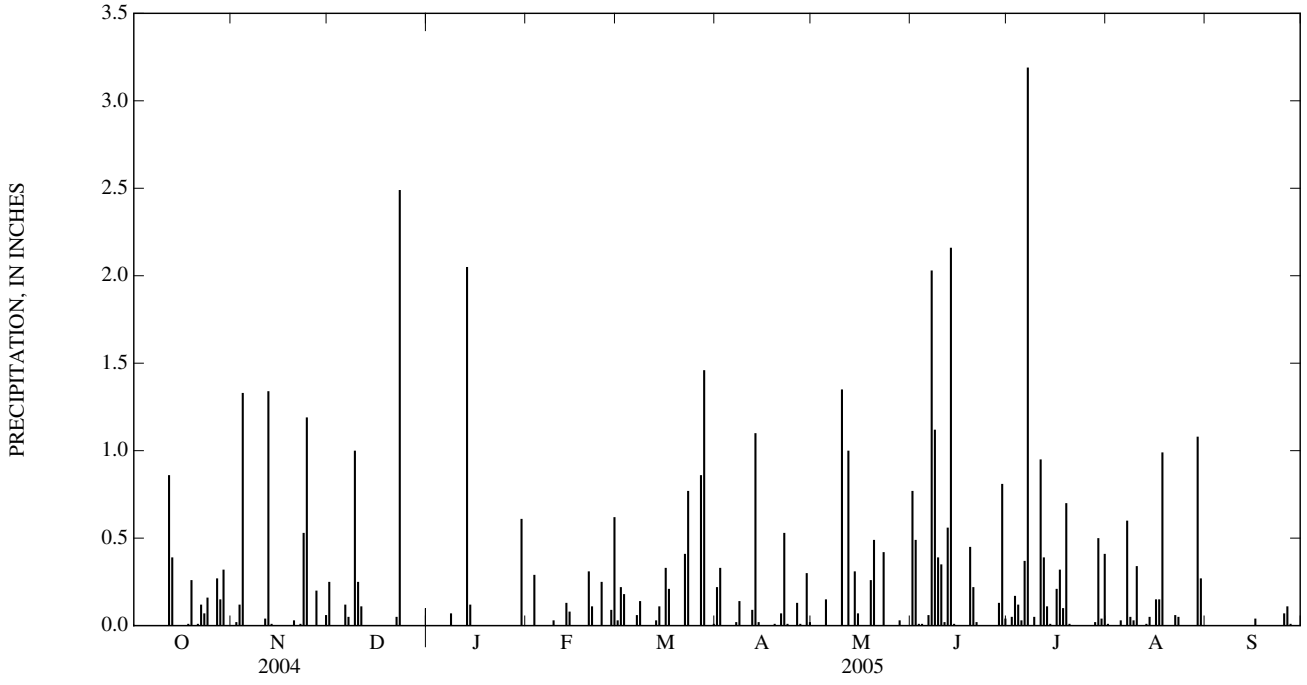
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.25	0.00	0.00	0.03	0.22	0.00	0.77	0.00	0.01	0.00
2	0.00	0.02	0.00	0.00	0.00	0.22	0.33	0.00	0.49	0.05	0.00	0.00
3	0.00	0.12	0.00	0.00	0.29	0.18	0.00	0.00	0.01	0.17	0.00	0.00
4	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.03	0.03	0.00
6	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.06	0.37	0.00	0.00
7	0.00	0.00	0.05	0.00	0.00	0.06	0.02	0.00	2.03	3.19	0.60	0.00
8	0.00	0.00	0.00	0.07	0.00	0.14	0.14	0.00	1.12	0.00	0.05	0.00
9	0.00	0.00	1.00	0.00	0.03	0.00	0.00	0.00	0.39	0.05	0.03	0.00
10	0.00	0.00	0.25	0.00	0.00	0.00	0.00	1.35	0.35	0.00	0.34	0.00
11	0.00	0.04	0.11	0.00	0.00	0.00	0.00	0.00	0.02	0.95	0.00	0.00
12	0.86	1.34	0.00	0.00	0.00	0.00	0.09	1.00	0.56	0.39	0.00	0.00
13	0.39	0.01	0.00	2.05	0.13	0.03	1.10	0.00	2.16	0.11	0.01	0.00
14	0.00	0.00	0.00	0.12	0.08	0.11	0.02	0.31	0.01	0.01	0.05	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.21	0.15	0.04
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.32	0.15	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.99	0.00
19	0.26	0.00	0.00	0.00	0.00	0.00	0.01	0.26	0.45	0.70	0.00	0.00
20	0.00	0.03	0.00	0.00	0.31	0.00	0.00	0.49	0.22	0.01	0.00	0.00
21	0.01	0.00	0.00	0.00	0.11	0.00	0.07	0.00	0.02	0.00	0.00	0.00
22	0.12	0.01	0.05	0.00	0.00	0.41	0.53	0.00	0.00	0.00	0.06	0.00
23	0.07	0.53	2.49	0.00	0.00	0.77	0.01	0.42	0.00	0.00	0.05	0.00
24	0.16	1.19	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
26	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.11
27	0.27	0.20	0.00	0.00	0.09	0.86	0.01	0.00	0.00	0.00	0.00	0.01
28	0.15	0.00	0.00	0.00	0.62	1.46	0.00	0.03	0.13	0.02	0.00	0.00
29	0.32	0.00	0.00	0.00	---	0.00	0.30	0.00	0.81	0.50	1.08	0.00
30	0.00	0.06	0.00	0.61	---	0.00	0.02	0.00	0.04	0.04	0.27	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.00	---	0.41	0.00	---
TOTAL	2.62	4.88	4.32	2.85	1.91	4.82	3.00	4.08	9.65	7.75	3.87	0.23



361210081333001 TRIPLETT RAINGAGE

LOCATION.--Lat 36°12'28", long 81°33'34", Watauga County, Hydrologic Unit 03040101, 60 ft west of Secondary Road 1570, 0.3 mi north of Triplett, and 1.7 mi south of Blue Ridge Parkway.

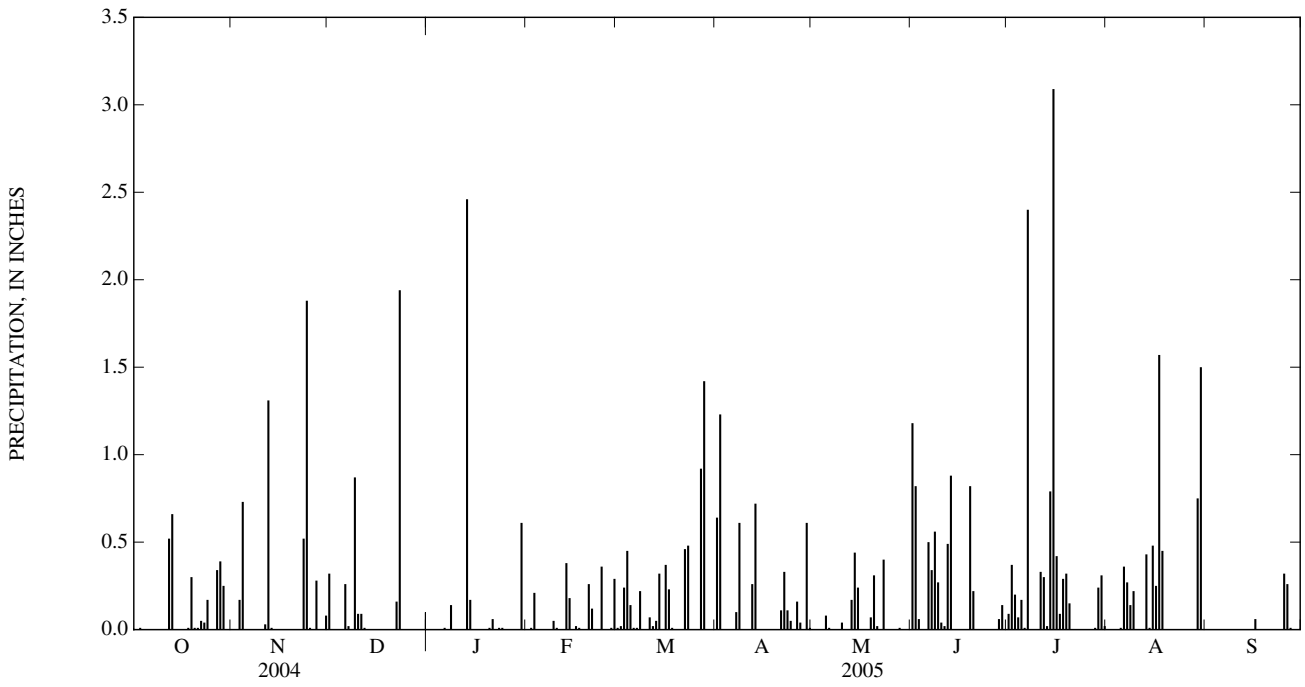
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.32	0.00	0.00	0.01	0.64	0.00	1.18	0.09	0.00	0.00
2	0.00	0.00	0.00	0.00	0.01	0.02	1.23	0.00	0.82	0.37	0.00	0.00
3	0.01	0.17	0.00	0.00	0.21	0.24	0.00	0.00	0.06	0.20	0.00	0.00
4	0.00	0.73	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.07	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.08	0.00	0.17	0.01	0.00
6	0.00	0.00	0.26	0.01	0.00	0.01	0.00	0.01	0.50	0.01	0.36	0.00
7	0.00	0.00	0.02	0.00	0.00	0.01	0.10	0.00	0.34	2.40	0.27	0.00
8	0.00	0.00	0.00	0.14	0.00	0.22	0.61	0.00	0.56	0.00	0.14	0.00
9	0.00	0.00	0.87	0.00	0.05	0.00	0.00	0.00	0.27	0.00	0.22	0.00
10	0.00	0.00	0.09	0.00	0.01	0.00	0.00	0.04	0.04	0.00	0.00	0.00
11	0.00	0.03	0.09	0.00	0.00	0.07	0.00	0.00	0.02	0.33	0.00	0.00
12	0.52	1.31	0.01	0.00	0.00	0.02	0.26	0.00	0.49	0.30	0.00	0.00
13	0.66	0.01	0.00	2.46	0.38	0.05	0.72	0.17	0.88	0.02	0.43	0.00
14	0.00	0.00	0.00	0.17	0.18	0.32	0.00	0.44	0.00	0.79	0.01	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	3.09	0.48	0.00
16	0.00	0.00	0.00	0.00	0.02	0.37	0.00	0.00	0.00	0.42	0.25	0.06
17	0.00	0.00	0.00	0.00	0.01	0.23	0.00	0.00	0.00	0.09	1.57	0.00
18	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.29	0.45	0.00
19	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.82	0.32	0.00	0.00
20	0.01	0.00	0.00	0.01	0.26	0.00	0.00	0.31	0.22	0.15	0.00	0.00
21	0.01	0.00	0.00	0.06	0.12	0.00	0.11	0.02	0.00	0.00	0.00	0.00
22	0.05	0.00	0.16	0.00	0.00	0.46	0.33	0.00	0.00	0.00	0.00	0.00
23	0.04	0.52	1.94	0.01	0.00	0.48	0.11	0.40	0.00	0.00	0.00	0.00
24	0.17	1.88	0.00	0.01	0.36	0.00	0.05	0.00	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32
26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.26
27	0.34	0.28	0.00	0.00	0.01	0.92	0.04	0.00	0.00	0.00	0.00	0.01
28	0.39	0.00	0.00	0.00	0.29	1.42	0.00	0.01	0.06	0.01	0.00	0.00
29	0.25	0.00	0.00	0.00	---	0.00	0.61	0.00	0.14	0.24	0.75	0.00
30	0.00	0.08	0.00	0.61	---	0.00	0.01	0.00	0.00	0.31	1.50	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.02	0.00	---
TOTAL	2.76	5.02	3.76	3.48	1.91	5.45	4.98	1.79	6.40	9.69	6.44	0.65



02111180 ELK CREEK AT ELKVILLE, NC

LOCATION.--Lat 36°04'17", long 81°24'11", Wilkes County, Hydrologic Unit 03040101, on left bank 700 ft upstream from bridge on State Highway 268 in Elkville, and 3,400 ft upstream from mouth.

DRAINAGE AREA.--48.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,082.40 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS --Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 3,200 ft^3/s on basis of contracted-opening computation. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 25, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 13, 1940, reached a stage of about 22 ft; discharge, about 70,000 ft^3/s, on basis of several contracted-opening and slope-area measurements. A discharge of 6.0 ft^3/s was measured Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	166	92	144	101	93	122	159	102	66	75	77	67
2	143	91	127	98	89	103	305	96	172	71	70	60
3	131	90	123	99	105	98	275	93	131	81	66	55
4	122	155	115	99	105	98	217	89	106	80	62	53
5	114	140	103	96	98	105	183	90	89	71	59	51
6	108	118	100	92	95	117	163	90	78	68	58	49
7	103	108	103	88	93	111	147	85	81	449	70	48
8	99	101	96	87	92	119	156	81	98	290	70	47
9	97	95	131	81	92	107	148	79	122	137	75	45
10	96	91	178	79	91	101	131	78	127	103	66	45
11	92	87	157	78	87	97	123	79	113	115	60	43
12	91	160	137	77	83	94	120	74	102	170	56	43
13	113	166	125	86	82	90	140	73	320	131	53	42
14	113	133	113	480	92	95	200	78	231	111	61	41
15	94	120	105	221	87	87	161	104	147	e300	53	40
16	89	111	100	167	85	90	142	89	114	664	62	40
17	84	103	98	142	83	105	129	76	98	273	76	47
18	81	97	95	123	80	97	122	73	86	219	242	39
19	90	93	93	116	78	92	115	72	107	245	140	37
20	89	91	e91	113	79	90	107	87	110	237	92	35
21	84	88	e89	108	86	88	107	73	89	207	74	34
22	85	85	84	102	82	88	119	68	80	155	89	33
23	92	100	391	98	78	162	119	72	74	131	76	33
24	93	294	300	e97	91	174	105	68	71	111	67	33
25	88	368	199	92	85	138	100	66	68	98	62	34
26	85	219	162	91	81	123	98	64	66	86	59	42
27	87	176	138	87	81	121	101	61	65	77	56	43
28	108	163	123	81	125	687	95	61	65	76	55	35
29	106	139	116	85	---	372	109	60	102	99	55	34
30	103	128	111	103	---	238	107	60	85	79	90	33
31	97	---	106	99	---	188	---	60	---	81	95	---
TOTAL	3,143	4,002	4,153	3,566	2,498	4,397	4,303	2,401	3,263	5,090	2,346	1,281
MEAN	101	133	134	115	89.2	142	143	77.5	109	164	75.7	42.7
MAX	166	368	391	480	125	687	305	104	320	664	242	67
MIN	81	85	84	77	78	87	95	60	65	68	53	33
CFSM	2.11	2.77	2.79	2.39	1.85	2.95	2.98	1.61	2.26	3.41	1.57	0.89
IN.	2.43	3.10	3.21	2.76	1.93	3.40	3.33	1.86	2.52	3.94	1.81	0.99

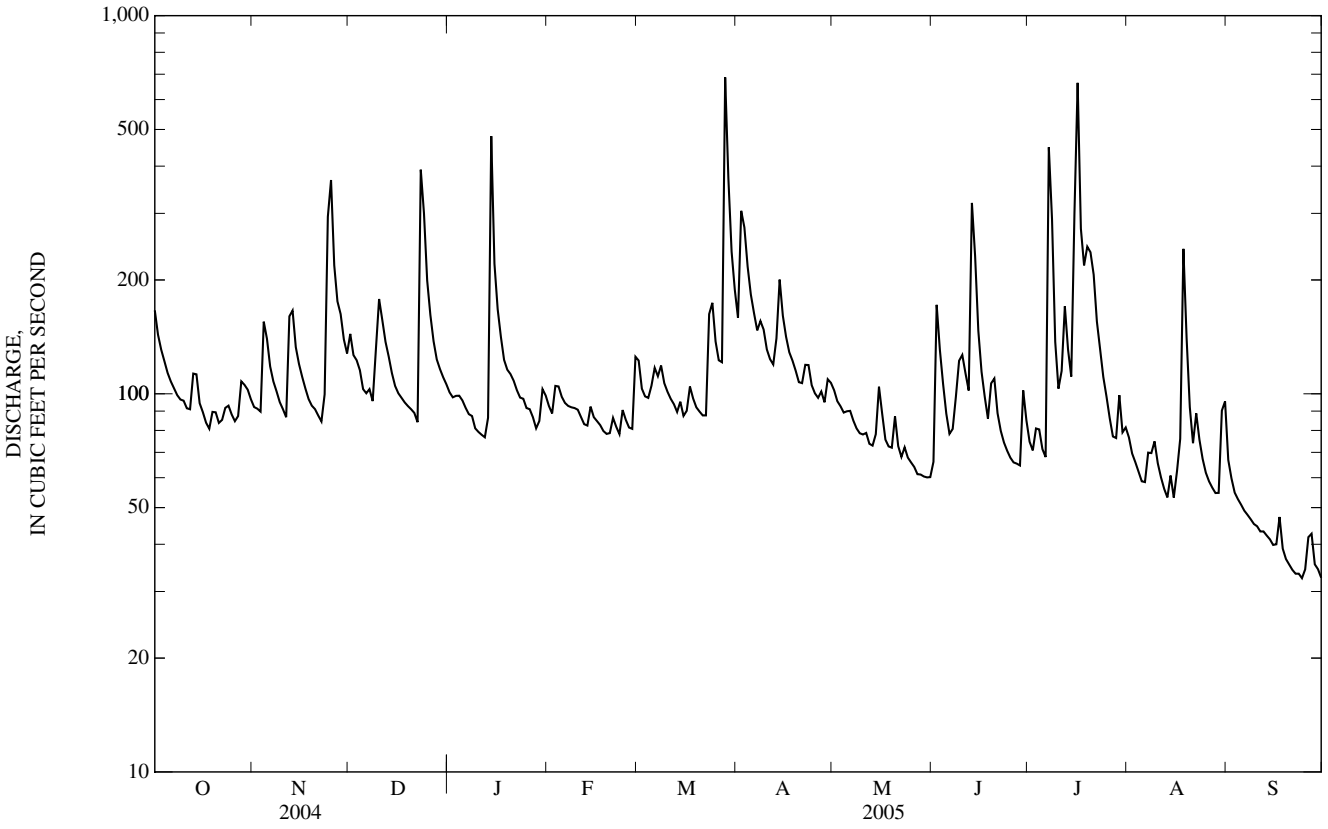
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)

MEAN	73.3	89.6	88.4	102	118	146	141	107	102	72.9	79.9	68.5
MAX	298	365	193	323	250	317	379	291	300	211	384	293
(WY)	(1991)	(1978)	(1974)	(1995)	(1966)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(2004)
MIN	13.7	19.8	19.1	22.5	25.0	47.9	49.9	31.0	21.7	17.6	15.3	21.0
(WY)	(2001)	(1982)	(2001)	(1981)	(2001)	(1988)	(2001)	(2002)	(1988)	(1988)	(2002)	(2000)

02111180 ELK CREEK AT ELKVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005	
ANNUAL TOTAL	38,770		40,443			
ANNUAL MEAN	106		111		98.9	
HIGHEST ANNUAL MEAN					157	2003
LOWEST ANNUAL MEAN					35.7	2001
HIGHEST DAILY MEAN	2,950	Sep 8	687	Mar 28	5,890	Aug 17, 1994
LOWEST DAILY MEAN	26	Aug 8	33	Sep 22	7.0	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	28	Aug 4	34	Sep 19	8.0	Sep 8, 2002
MAXIMUM PEAK FLOW			2,640	Jul 15	18,700*	Aug 17, 1994
MAXIMUM PEAK STAGE			4.74	Jul 15	12.02	Aug 17, 1994
INSTANTANEOUS LOW FLOW			32*	Sep 24	6.8*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.20		2.30		2.06	
ANNUAL RUNOFF (INCHES)	29.98		31.28		27.94	
10 PERCENT EXCEEDS	157		166		170	
50 PERCENT EXCEEDS	82		94		69	
90 PERCENT EXCEEDS	42		59		27	

* See REMARKS.
e Estimated.



02111180 ELK CREEK AT ELKVILLE, NC—Continued

PRECIPITATION RECORDS

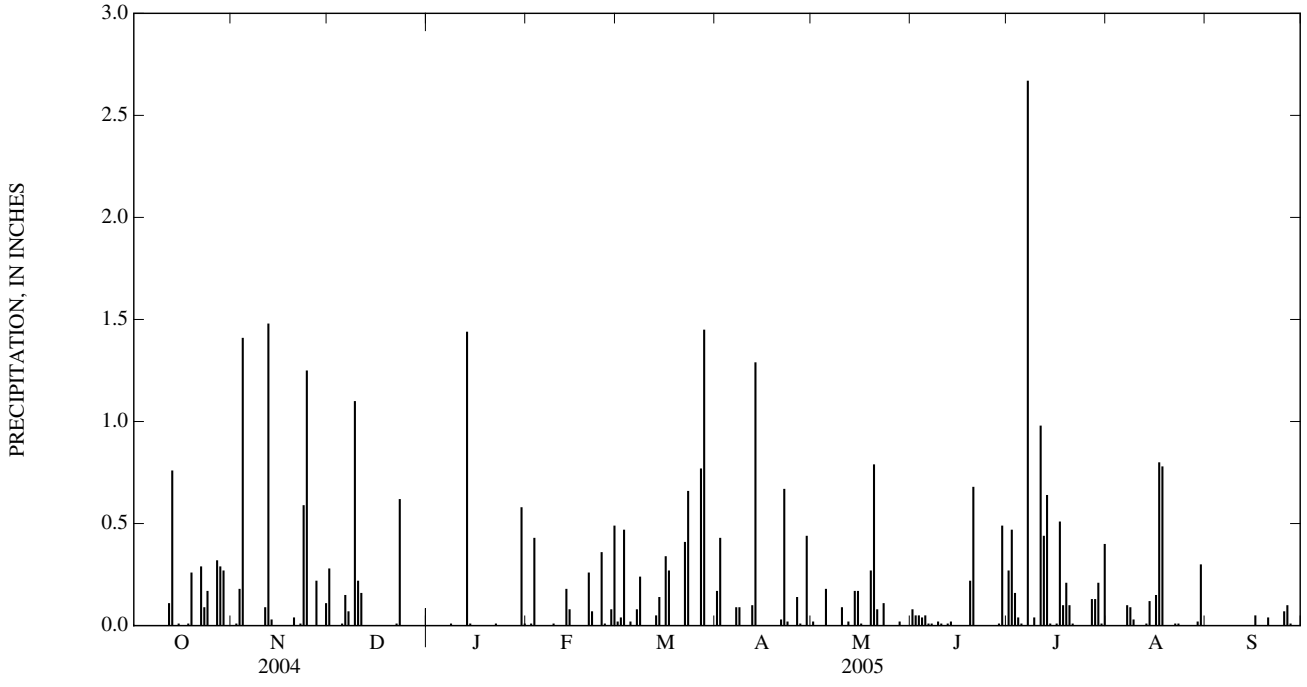
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.28	0.00	0.00	0.02	0.17	0.02	0.08	0.27	0.00	0.00
2	0.00	0.01	0.00	0.00	0.01	0.04	0.43	0.00	0.05	0.47	0.00	0.00
3	0.00	0.18	0.00	0.00	0.43	0.47	0.00	0.00	0.05	0.16	0.00	0.00
4	0.00	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.18	0.05	0.01	0.00	0.00
6	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
7	0.00	0.00	0.07	0.00	0.00	0.08	0.09	0.00	0.01	2.67	0.10	0.00
8	0.00	0.00	0.00	0.01	0.00	0.24	0.09	0.00	0.00	0.00	0.09	0.00
9	0.00	0.00	1.10	0.00	0.01	0.00	0.00	0.00	0.02	0.04	0.03	0.00
10	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.09	0.01	0.00	0.00	0.00
11	0.00	0.09	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00
12	0.11	1.48	0.00	0.00	0.00	0.00	0.10	0.02	0.01	0.44	0.00	0.00
13	0.76	0.03	0.00	1.44	0.18	0.05	1.29	0.00	0.02	0.64	0.01	0.00
14	0.00	0.00	0.00	0.01	0.08	0.14	0.00	0.17	0.00	0.01	0.12	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.01	0.00	0.01	0.15	0.05
17	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.51	0.80	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.78	0.00
19	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.22	0.21	0.00	0.00
20	0.00	0.04	0.00	0.00	0.26	0.00	0.00	0.79	0.68	0.10	0.00	0.04
21	0.00	0.00	0.00	0.00	0.07	0.00	0.03	0.08	0.00	0.01	0.00	0.00
22	0.29	0.01	0.01	0.01	0.00	0.41	0.67	0.00	0.00	0.00	0.01	0.00
23	0.09	0.59	0.62	0.00	0.00	0.66	0.02	0.11	0.00	0.00	0.01	0.00
24	0.17	1.25	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07
26	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.10
27	0.32	0.22	0.00	0.00	0.08	0.77	0.01	0.00	0.00	0.13	0.00	0.01
28	0.29	0.00	0.00	0.00	0.49	1.45	0.00	0.02	0.01	0.13	0.00	0.00
29	0.27	0.00	0.00	0.00	---	0.00	0.44	0.00	0.49	0.21	0.02	0.00
30	0.00	0.11	0.00	0.58	---	0.00	0.00	0.00	0.00	0.01	0.30	0.00
31	0.00	---	0.00	0.01	---	0.00	---	0.00	---	0.40	0.00	---
TOTAL	2.58	5.42	2.62	2.06	1.98	4.96	3.48	1.93	1.75	7.55	2.42	0.27



02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC

LOCATION.--Lat 36°08'01", long 81°13'36", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--367 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 1,000 ft above NGVD of 1929. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

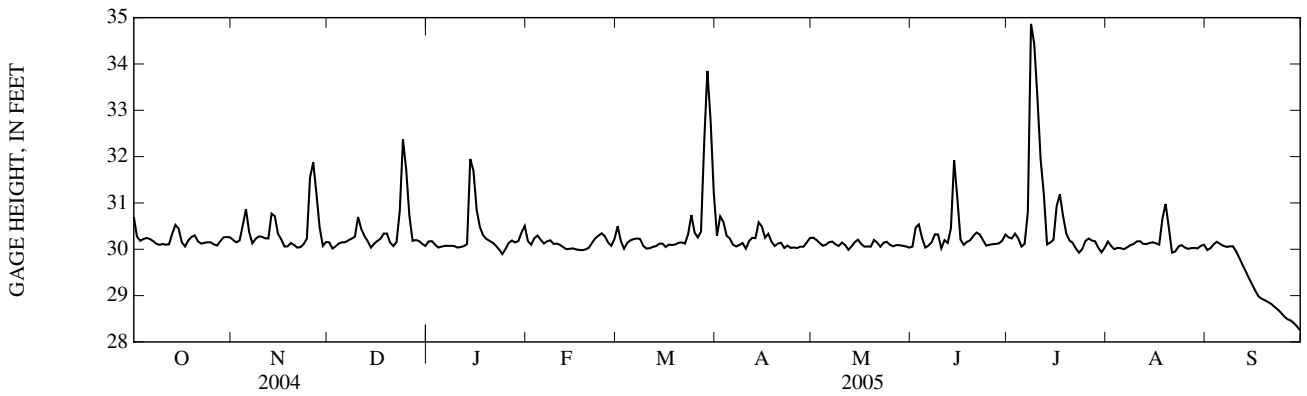
REMARKS.--Records good. Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1,075.0 ft is 6,664,680,000 ft^3 of which 4,878,720,000 ft^3 is controlled flood storage.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 61.20 ft, Nov. 7, 1977; minimum gage height, 19.85 ft, Nov. 26, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 35.19 ft, July 8; minimum gage height, 28.20 ft, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30.70	30.20	30.15	30.17	30.18	30.50	30.30	30.25	30.06	30.26	30.17	29.98
2	30.28	30.15	30.02	30.18	30.10	30.18	30.71	30.20	30.47	30.23	30.07	30.02
3	30.18	30.19	30.06	30.10	30.24	30.01	30.59	30.14	30.54	30.34	30.00	30.11
4	30.22	30.52	30.13	30.04	30.30	30.14	30.29	30.08	30.24	30.24	30.03	30.16
5	30.24	30.87	30.15	30.06	30.20	30.19	30.23	30.10	30.04	30.06	30.02	30.11
6	30.22	30.37	30.15	30.07	30.12	30.22	30.10	30.15	30.08	30.11	30.00	30.08
7	30.18	30.13	30.20	30.08	30.17	30.23	30.06	30.17	30.15	30.80	30.04	30.05
8	30.12	30.22	30.23	30.07	30.19	30.22	30.09	30.11	30.32	34.87	30.09	30.06
9	30.10	30.28	30.27	30.07	30.12	30.07	30.14	30.07	30.32	34.44	30.11	30.07
10	30.11	30.27	30.70	30.04	30.12	30.02	30.01	30.15	30.02	33.26	30.17	29.95
11	30.10	30.24	30.44	30.05	30.10	30.02	30.18	30.09	30.20	31.93	30.17	29.82
12	30.11	30.23	30.28	30.07	30.05	30.05	30.25	29.99	30.14	31.18	30.12	29.67
13	30.34	30.77	30.17	30.11	30.00	30.07	30.24	30.06	30.46	30.11	30.11	29.53
14	30.53	30.72	30.04	31.95	30.01	30.12	30.58	30.15	31.92	30.15	30.14	29.38
15	30.44	30.34	30.12	31.70	30.02	30.12	30.49	30.21	31.11	30.20	30.15	29.24
16	30.15	30.21	30.18	30.85	30.00	30.05	30.25	30.12	30.21	30.93	30.13	29.10
17	30.06	30.06	30.23	30.48	29.99	30.10	30.33	30.06	30.10	31.18	30.10	28.98
18	30.19	30.06	30.34	30.30	29.98	30.09	30.17	30.06	30.16	30.72	30.66	28.93
19	30.27	30.14	30.34	30.23	30.00	30.10	30.07	30.06	30.19	30.34	30.98	28.90
20	30.30	30.10	30.14	30.18	30.03	30.14	30.12	30.20	30.29	30.19	30.47	28.86
21	30.17	30.04	30.07	30.14	30.14	30.15	30.14	30.14	30.36	30.14	29.93	28.82
22	30.12	30.05	30.16	30.08	30.24	30.12	30.03	30.05	30.32	30.02	29.95	28.76
23	30.14	30.11	30.83	29.99	30.29	30.33	30.08	30.14	30.20	29.93	30.06	28.70
24	30.15	30.23	32.37	29.90	30.35	30.74	30.03	30.16	30.08	30.01	30.09	28.63
25	30.15	31.55	31.73	30.00	30.28	30.36	30.04	30.09	30.10	30.18	30.04	28.55
26	30.10	31.88	30.73	30.14	30.15	30.26	30.03	30.06	30.11	30.23	30.01	28.49
27	30.08	31.20	30.18	30.19	30.07	30.38	30.06	30.09	30.12	30.19	30.02	28.46
28	30.17	30.47	30.20	30.15	30.22	32.29	30.06	30.09	30.13	30.17	30.03	28.41
29	30.26	30.07	30.18	30.18	---	33.85	30.15	30.07	30.19	30.03	30.02	28.33
30	30.26	30.16	30.12	30.36	---	32.78	30.24	30.06	30.32	29.93	30.07	28.25
31	30.26	---	30.07	30.50	---	31.22	---	30.04	---	30.03	30.10	---
MEAN	30.22	30.39	30.35	30.27	30.13	30.49	30.20	30.11	30.30	30.72	30.13	29.28
MAX	30.70	31.88	32.37	31.95	30.35	33.85	30.71	30.25	31.92	34.87	30.98	30.16
MIN	30.06	30.04	30.02	29.90	29.98	30.01	30.01	29.99	30.02	29.93	29.93	28.25



02111391 W. KERR SCOTT RESERVOIR AT DAM NEAR WILKESBORO, NC—Continued

PRECIPITATION RECORDS

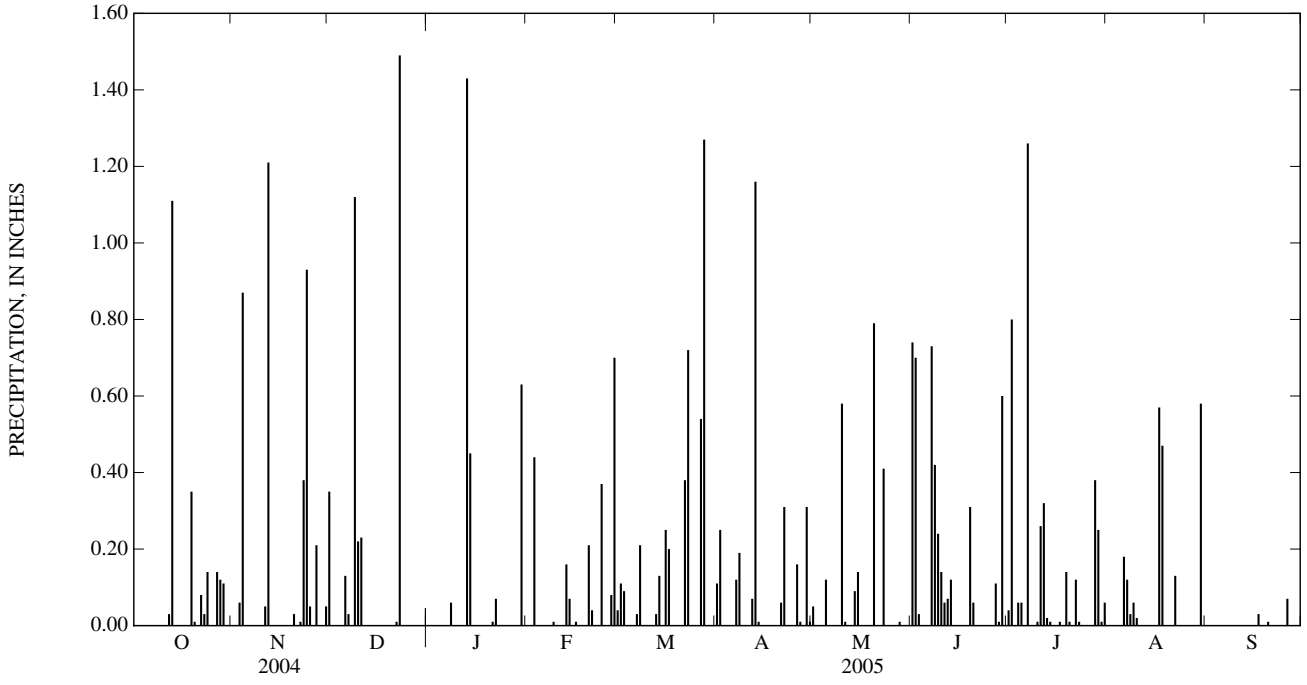
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.35	0.00	0.00	0.04	0.11	0.05	0.74	0.04	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.11	0.25	0.00	0.70	0.80	0.00	0.00
3	0.00	0.06	0.00	0.00	0.44	0.09	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.06	0.00	0.00
6	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00
7	0.00	0.00	0.03	0.00	0.00	0.03	0.12	0.00	0.73	1.26	0.12	0.00
8	0.00	0.00	0.00	0.06	0.00	0.21	0.19	0.00	0.42	0.00	0.03	0.00
9	0.00	0.00	1.12	0.00	0.01	0.00	0.00	0.00	0.24	0.00	0.06	0.00
10	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.58	0.14	0.01	0.02	0.00
11	0.00	0.05	0.23	0.00	0.00	0.00	0.00	0.01	0.06	0.26	0.00	0.00
12	0.03	1.21	0.00	0.00	0.00	0.00	0.07	0.00	0.07	0.32	0.00	0.00
13	1.11	0.00	0.00	1.43	0.16	0.03	1.16	0.00	0.12	0.02	0.00	0.00
14	0.00	0.00	0.00	0.45	0.07	0.13	0.01	0.09	0.00	0.01	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.25	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.01	0.57	0.03
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.00
19	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.14	0.00	0.00
20	0.01	0.03	0.00	0.00	0.21	0.00	0.00	0.79	0.06	0.01	0.00	0.01
21	0.00	0.00	0.00	0.01	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00
22	0.08	0.01	0.01	0.07	0.00	0.38	0.31	0.00	0.00	0.12	0.13	0.00
23	0.03	0.38	1.49	0.00	0.00	0.72	0.00	0.41	0.00	0.01	0.00	0.00
24	0.14	0.93	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.07
27	0.14	0.21	0.00	0.00	0.08	0.54	0.01	0.00	0.11	0.00	0.00	0.00
28	0.12	0.00	0.00	0.00	0.70	1.27	0.00	0.01	0.01	0.38	0.00	0.00
29	0.11	0.00	0.00	0.00	---	0.00	0.31	0.00	0.60	0.25	0.00	0.00
30	0.00	0.05	0.00	0.63	---	0.00	0.01	0.00	0.00	0.01	0.58	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.06	0.00	---
TOTAL	2.12	3.85	3.58	2.65	2.09	4.00	2.77	2.20	4.34	3.83	2.16	0.11



361554081191701 WILBAR RAINGAGE

LOCATION.--Lat 36°17'27", long 81°20'07", Wilkes County, Hydrologic Unit 03040101, 300 ft northeast of NC Hwy 16, 2.0 mi northwest of Wilbar, and 4.0 mi southwest of Horse Gap.

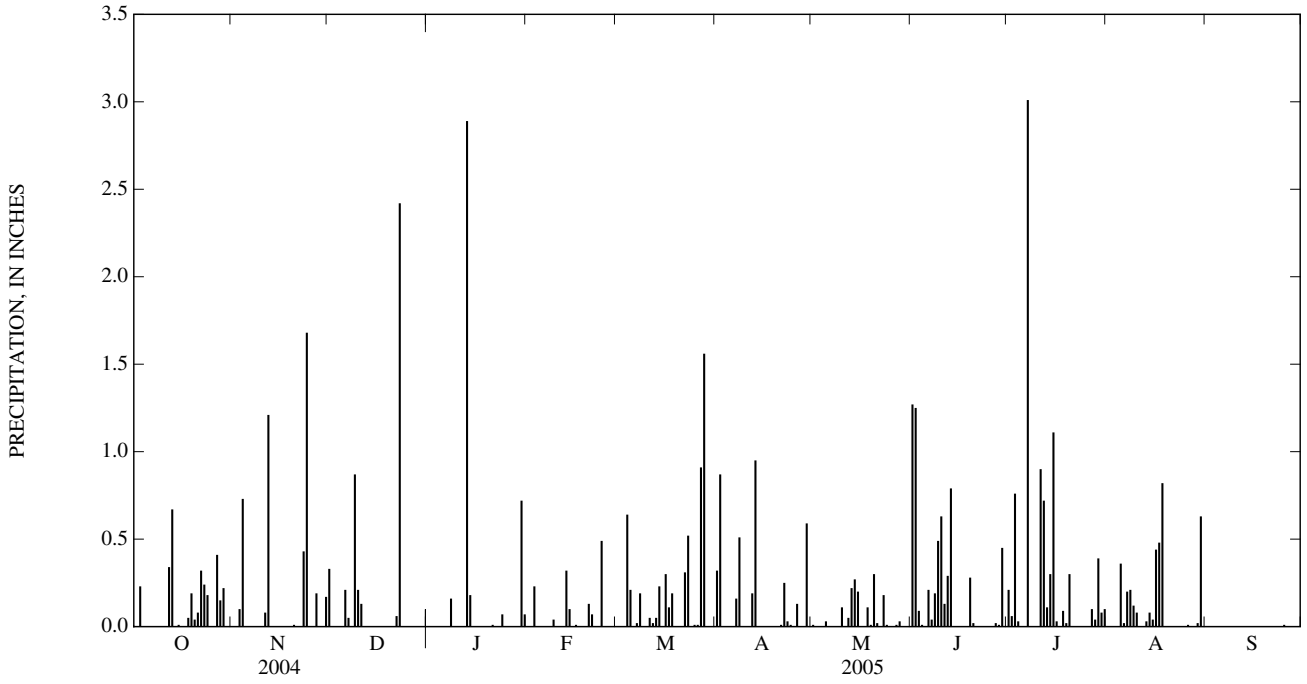
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.33	0.00	0.00	0.00	0.32	0.01	1.27	0.21	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.87	0.00	1.25	0.06	0.00	0.00
3	0.23	0.10	0.00	0.00	0.23	0.00	0.00	0.00	0.09	0.76	0.00	0.00
4	0.00	0.73	0.00	0.00	0.00	0.64	0.00	0.00	0.01	0.03	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.03	0.00	0.00	0.36	0.00
6	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.02	0.00
7	0.00	0.00	0.05	0.00	0.00	0.02	0.16	0.00	0.04	3.01	0.20	0.00
8	0.00	0.00	0.00	0.16	0.00	0.19	0.51	0.00	0.19	0.00	0.21	0.00
9	0.00	0.00	0.87	0.00	0.04	0.00	0.00	0.00	0.49	0.00	0.12	0.00
10	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.11	0.63	0.00	0.08	0.00
11	0.00	0.08	0.13	0.00	0.00	0.05	0.00	0.00	0.13	0.90	0.00	0.00
12	0.34	1.21	0.00	0.00	0.00	0.02	0.19	0.05	0.29	0.72	0.00	0.00
13	0.67	0.00	0.00	2.89	0.32	0.05	0.95	0.22	0.79	0.11	0.03	0.00
14	0.00	0.00	0.00	0.18	0.10	0.23	0.00	0.27	0.00	0.30	0.08	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	1.11	0.04	0.00
16	0.00	0.00	0.00	0.00	0.01	0.30	0.00	0.00	0.00	0.03	0.44	0.00
17	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.48	0.00
18	0.05	0.00	0.00	0.00	0.00	0.19	0.00	0.11	0.00	0.09	0.82	0.00
19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.28	0.02	0.00	0.00
20	0.04	0.01	0.00	0.00	0.13	0.00	0.00	0.30	0.02	0.30	0.00	0.00
21	0.08	0.00	0.00	0.01	0.07	0.00	0.01	0.02	0.00	0.00	0.00	0.00
22	0.32	0.00	0.06	0.00	0.00	0.31	0.25	0.00	0.00	0.00	0.00	0.00
23	0.24	0.43	2.42	0.00	0.00	0.52	0.03	0.18	0.00	0.00	0.00	0.00
24	0.18	1.68	0.00	0.07	0.49	0.00	0.01	0.01	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.00	0.00	0.01	0.00
27	0.41	0.19	0.00	0.00	0.00	0.91	0.00	0.01	0.02	0.10	0.00	0.00
28	0.15	0.00	0.00	0.00	0.00	1.56	0.00	0.03	0.01	0.04	0.00	0.00
29	0.22	0.00	0.00	0.00	---	0.00	0.59	0.00	0.45	0.39	0.02	0.00
30	0.00	0.17	0.00	0.72	---	0.00	0.00	0.00	0.00	0.08	0.63	0.00
31	0.00	---	0.00	0.07	---	0.00	---	0.00	---	0.10	0.00	---
TOTAL	3.13	4.60	4.28	4.10	1.39	5.33	4.02	1.56	6.17	8.36	3.54	0.01



02111500 REDDIES RIVER AT NORTH WILKESBORO, NC

LOCATION.--Lat 36°10'30", long 81°10'08", Wilkes County, Hydrologic Unit 03040101, on left bank 550 ft upstream from bridge on Secondary Road 1517, 1.4 mi upstream from North Wilkesboro municipal dam, 1.2 mi northwest of North Wilkesboro, and 2.3 mi upstream from mouth.

DRAINAGE AREA.--89.2 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1303.

REVISED RECORDS.--WSP 1433: 1944. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 978.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Slight diurnal fluctuation at low flow during growing season. Maximum discharge for period of record, from rating curve extended above 5,600 ft^3/s on basis of computation of peak flow over dam; gage height: 22.02 ft. Minimum discharge for period of record also occurred Aug. 15, 2002. Minimum discharge for current water year also occurred Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	197	125	169	143	144	185	210	146	108	107	126	92
2	178	120	146	139	138	155	333	140	264	171	112	87
3	168	116	140	136	167	148	269	137	185	153	107	84
4	157	187	138	135	164	145	229	134	149	130	105	81
5	144	157	136	134	152	157	210	134	132	143	104	80
6	137	140	136	134	146	164	195	134	122	131	107	78
7	133	137	142	129	143	153	192	131	156	587	116	78
8	127	131	138	133	141	161	210	128	161	396	118	76
9	125	125	202	126	140	143	194	124	165	184	129	76
10	123	120	267	125	139	138	179	127	217	147	130	74
11	118	117	214	123	131	136	174	156	206	137	124	73
12	116	208	176	122	129	133	170	130	166	211	103	71
13	163	196	158	142	129	128	204	127	219	203	98	71
14	153	148	143	996	143	137	269	138	204	216	136	70
15	127	140	140	295	134	126	204	166	159	297	109	71
16	118	140	139	229	131	132	185	146	140	570	109	69
17	112	137	139	199	127	157	177	129	129	262	136	70
18	109	132	139	178	122	144	172	125	121	205	293	68
19	115	129	139	170	120	139	167	127	119	188	194	65
20	116	126	e136	166	121	134	161	155	121	181	144	65
21	112	124	e132	162	129	130	157	133	136	180	122	65
22	113	121	130	156	124	128	167	121	120	154	109	63
23	123	132	630	147	118	342	175	121	111	140	105	65
24	130	305	340	147	141	242	155	116	107	129	106	62
25	121	313	230	144	133	183	150	112	103	124	101	64
26	113	193	197	143	125	165	148	110	101	118	99	75
27	118	164	175	137	122	167	152	107	107	114	96	76
28	143	163	162	130	197	942	143	106	111	117	94	67
29	143	143	157	137	---	412	169	106	142	147	91	67
30	139	138	152	159	---	277	157	105	132	123	111	64
31	134	---	146	155	---	231	---	101	---	137	114	---
TOTAL	4,125	4,627	5,588	5,571	3,850	6,134	5,677	3,972	4,413	6,102	3,748	2,167
MEAN	133	154	180	180	138	198	189	128	147	197	121	72.2
MAX	197	313	630	996	197	942	333	166	264	587	293	92
MIN	109	116	130	122	118	126	143	101	101	107	91	62
CFSM	1.49	1.73	2.02	2.01	1.54	2.22	2.12	1.44	1.65	2.21	1.36	0.81
IN.	1.72	1.93	2.33	2.32	1.61	2.56	2.37	1.66	1.84	2.54	1.56	0.90

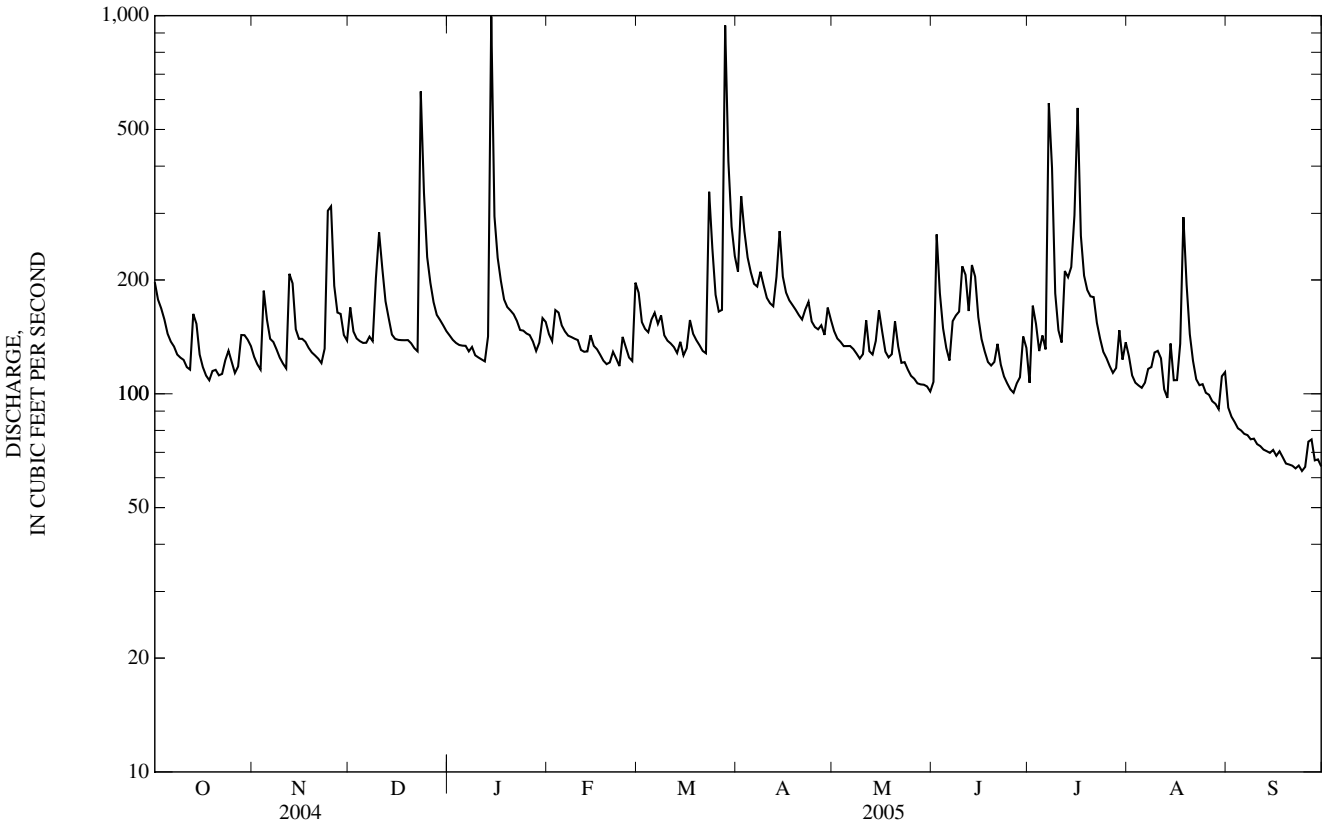
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	108	118	129	141	162	190	191	156	145	122	122	114
MAX	309	379	273	374	386	405	536	353	412	335	587	479
(WY)	(1977)	(1978)	(1974)	(1996)	(1960)	(1975)	(1980)	(1973)	(1976)	(1941)	(1940)	(1945)
MIN	33.1	35.1	44.3	44.5	50.6	77.3	68.1	47.8	32.8	31.8	22.1	30.8
(WY)	(2001)	(2002)	(2001)	(1956)	(2001)	(1940)	(2001)	(2002)	(2002)	(2002)	(2002)	(1954)

02111500 REDDIES RIVER AT NORTH WILKESBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	54,146		55,974			
ANNUAL MEAN	148		153		141	
HIGHEST ANNUAL MEAN					218	1973
LOWEST ANNUAL MEAN					51.0	2002
HIGHEST DAILY MEAN	2,210	Sep 8	996	Jan 14	7,600	Aug 14, 1940
LOWEST DAILY MEAN	64	Aug 27	62	Sep 24	13	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	68	Aug 21	64	Sep 19	14	Aug 8, 2002
MAXIMUM PEAK FLOW			2,760	Jan 14	27,000*	Aug 14, 1940
MAXIMUM PEAK STAGE			6.92	Jan 14	22.02	Aug 14, 1940
INSTANTANEOUS LOW FLOW			60*	Sep 24	12*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.66		1.72		1.59	
ANNUAL RUNOFF (INCHES)	22.58		23.34		21.54	
10 PERCENT EXCEEDS	195		205		229	
50 PERCENT EXCEEDS	126		137		111	
90 PERCENT EXCEEDS	80		101		57	

* See REMARKS.
e Estimated.



02112000 YADKIN RIVER AT WILKESBORO, NC

LOCATION.--Lat 36°09'09", long 81°08'44", Wilkes County, Hydrologic Unit 03040101, on right bank 150 ft upstream from bridge on State Highways 18 and 268 between North Wilkesboro and Wilkesboro, 150 ft downstream of Reddies River, 0.5 mi northeast of Wilkesboro, and 382 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--504 mi^2.

PERIOD OF RECORD.--April 1903 to June 1909, October 1920 to current year. Prior to October 1928, published as "Yadkin River at North Wilkesboro".

REVISED RECORDS.--WSP 1433: 1903-09, 1922, 1925-26(M), 1930, 1932, 1934, 1946-48(M), drainage area at former site. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 942.35 ft above NGVD of 1929. Apr. 10, 1903, to June 30, 1909, and Oct. 17, 1920, to Apr. 10, 1929, nonrecording gage at site 1.2 mi downstream at different datum. Apr. 11, 1929, to Jan. 9, 1930, nonrecording gage at present site and datum. U.S. Army Corps of Engineers telephone and satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated since 1962 by W. Kerr Scott Reservoir (station 02111391) 5.5 mi upstream. Prior to regulation maximum discharge: 160,000 ft^3/s, Aug. 14, 1940, from rating curve extended above 20,000 ft^3/s on basis of slope-area measurement of peak flow; gage height: 37.6 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in July 1916 reached a stage of 34.5 ft present site and datum, from floodmark; discharge, 116,000 ft^3/s, from rating curve extended as explained above.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,410	751	1,130	800	1,070	1,120	1,510	808	539	701	660	572
2	1,250	678	1,020	876	736	1,160	1,490	784	993	850	721	433
3	1,040	632	829	884	830	914	1,910	775	1,150	968	599	392
4	878	898	826	827	940	786	1,470	721	1,040	1,000	537	440
5	847	1,290	818	780	910	866	1,240	685	789	899	569	468
6	820	1,330	815	774	829	909	1,200	680	593	740	566	430
7	822	884	831	766	748	886	1,110	707	659	1,270	565	416
8	773	644	802	772	796	972	1,090	726	1,040	1,610	636	377
9	725	689	1,050	763	819	934	1,140	630	1,320	2,090	648	423
10	706	688	1,670	751	743	807	1,040	635	1,260	2,020	648	484
11	701	724	1,730	700	738	760	826	804	1,080	1,920	634	484
12	661	1,150	1,300	701	737	745	949	658	1,040	2,170	561	474
13	862	1,210	1,190	748	740	740	1,150	607	972	1,910	516	463
14	903	1,270	980	2,970	752	745	1,560	635	1,560	1,220	566	462
15	920	1,170	838	2,510	736	772	1,490	851	1,930	1,160	576	462
16	875	943	827	1,800	732	791	1,220	844	1,350	1,730	569	458
17	612	871	777	1,310	701	826	995	685	808	1,710	597	440
18	526	731	764	1,110	652	850	1,130	634	703	1,710	1,230	394
19	631	732	846	976	630	752	974	637	739	1,560	1,450	363
20	725	796	908	961	639	746	851	873	816	1,510	1,390	360
21	751	770	697	950	644	741	919	851	823	1,380	903	366
22	661	658	698	933	633	773	1,010	675	798	1,150	597	370
23	698	745	1,800	907	624	1,240	1,030	601	777	1,000	573	370
24	733	1,330	2,170	794	753	1,450	871	656	717	775	595	368
25	709	1,460	2,250	695	817	1,310	807	611	621	666	597	385
26	677	1,590	2,000	708	792	1,040	801	567	609	703	535	411
27	670	1,810	1,350	759	746	828	806	549	601	694	509	410
28	695	1,620	935	758	877	2,780	765	564	610	753	509	393
29	811	1,080	1,000	702	---	2,850	786	566	626	916	502	389
30	777	849	992	750	---	2,850	817	562	795	798	629	384
31	762	---	871	965	---	2,620	---	556	---	640	741	---
TOTAL	24,631	29,993	34,714	30,700	21,364	35,563	32,957	21,137	27,358	38,223	20,928	12,641
MEAN	795	1,000	1,120	990	763	1,147	1,099	682	912	1,233	675	421
MAX	1,410	1,810	2,250	2,970	1,070	2,850	1,910	873	1,930	2,170	1,450	572
MIN	526	632	697	695	624	740	765	549	539	640	502	360
†	-19	-3	-1	+8	+3	+4	-10	-7	+8	-5	-3	-35

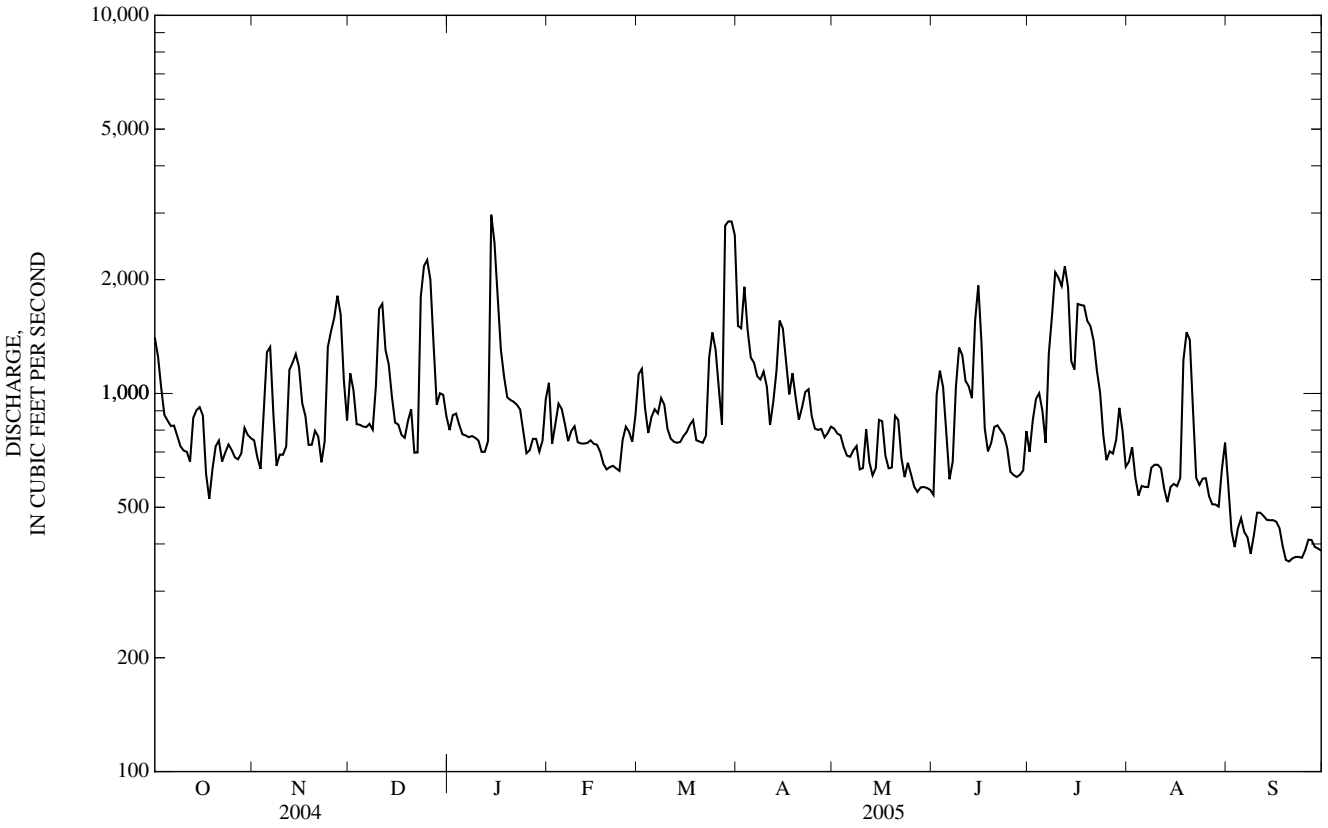
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005,* BY WATER YEAR (WY)

MEAN	662	720	759	868	959	1,158	1,129	917	878	688	706	615
MAX	1,834	2,571	1,619	1,965	1,832	2,346	2,868	1,954	2,075	1,720	2,239	1,948
(WY)	(1991)	(1978)	(1974)	(1995)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(1994)	(1979)
MIN	191	209	249	302	335	441	435	300	248	234	194	209
(WY)	(1989)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(1988)	(1988)

02112000 YADKIN RIVER AT WILKESBORO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005*	
ANNUAL TOTAL	331,239		330,209	‡900		(UNADJUSTED)
ANNUAL MEAN	905		905		837	
HIGHEST ANNUAL MEAN					1,220	1973
LOWEST ANNUAL MEAN					336	2002
HIGHEST DAILY MEAN	5,950	Sep 11	2,970	Jan 14	7,990	Aug 10, 1970
LOWEST DAILY MEAN	391	Aug 10	360	Sep 20	114	Dec 8, 1970
ANNUAL SEVEN-DAY MINIMUM	417	Aug 4	369	Sep 19	141	Sep 8, 2002
MAXIMUM PEAK FLOW			5,030	Jan 14	12,800	Apr 10, 1983
MAXIMUM PEAK STAGE			7.38	Jan 14	16.22	Apr 10, 1983
INSTANTANEOUS LOW FLOW			325	Sep 28	54	Oct 21, 1997
10 PERCENT EXCEEDS	1,470		1,450		1,420	
50 PERCENT EXCEEDS	732		789		648	
90 PERCENT EXCEEDS	516		538		336	

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers.
* Regulated period only (1963-2005). See REMARKS.
‡ Adjusted for change in contents in W. Kerr Scott Reservoir.



02112120 ROARING RIVER NEAR ROARING RIVER, NC

LOCATION.--Lat 36°15'01", long 81°02'40", Wilkes County, Hydrologic Unit 03040101, on left bank at downstream end of old bridge pier, 800 ft upstream from bridge on Secondary Road 1990, 3.8 mi northwest of Roaring River, and 4.1 mi upstream from mouth.

DRAINAGE AREA.--128 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements water years 1925, 1947, 1949-56, 1963. April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 964.85 ft above NGVD of 1929. Prior to May 1, 1964, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 2,400 ft^3/s on basis of slope-area measurement of peak flow at gage heights 22.54, 14.40, and 10.83 ft. Minimum discharge for period of record also occurred Aug. 15, 24, 25, Sept. 11, 12, 13, 14, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 28 ft; estimated discharge, 45,000 ft^3/s. The flood of August 1940 reached a stage of about 24 ft; estimated discharge, 31,000 ft^3/s, from information by local residents and rating curve extended as explained above. A discharge of 24 ft^3/s was measured Sept. 18, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	298	165	248	200	176	259	274	184	131	160	175	92
2	268	161	210	193	168	195	443	173	271	142	136	86
3	260	160	199	189	215	179	352	168	201	135	127	83
4	238	224	189	187	208	172	301	163	172	135	125	79
5	212	199	181	185	190	178	273	162	159	137	113	78
6	200	176	181	183	182	178	252	162	159	165	113	76
7	191	168	189	179	177	171	248	157	161	380	140	76
8	184	162	178	181	176	187	288	153	151	391	166	74
9	180	153	276	174	173	168	253	149	201	189	147	73
10	176	150	400	170	172	162	233	153	168	156	171	72
11	169	150	314	168	161	160	223	169	153	148	133	71
12	167	265	258	167	158	156	217	157	144	211	118	69
13	260	243	229	191	159	151	270	165	171	197	110	68
14	259	191	206	1,270	174	164	385	167	172	277	124	67
15	188	178	193	382	163	149	270	221	146	214	179	69
16	172	171	187	287	160	158	240	181	134	239	149	67
17	163	165	183	242	153	186	226	159	126	265	154	70
18	157	162	179	213	147	169	216	153	123	198	172	68
19	166	157	175	213	144	164	208	175	127	175	162	65
20	164	153	e173	199	146	159	200	231	136	201	133	64
21	160	148	e170	195	156	154	193	198	138	211	120	64
22	161	146	e167	188	148	152	214	164	133	181	107	63
23	169	162	959	180	143	375	241	156	120	151	104	64
24	187	472	546	e176	171	271	196	148	116	134	105	62
25	172	462	360	173	156	209	188	142	115	129	101	62
26	162	274	296	173	146	191	184	139	115	122	98	71
27	168	230	259	165	142	196	189	135	118	116	97	77
28	185	227	236	155	298	1,210	176	134	120	117	95	66
29	194	197	227	163	---	557	215	132	135	133	92	67
30	185	189	217	195	---	374	195	131	160	141	103	64
31	173	---	207	192	---	306	---	128	---	306	124	---
TOTAL	5,988	6,060	7,992	7,128	4,762	7,460	7,363	5,009	4,476	5,856	3,993	2,127
MEAN	193	202	258	230	170	241	245	162	149	189	129	70.9
MAX	298	472	959	1,270	298	1,210	443	231	271	391	179	92
MIN	157	146	167	155	142	149	176	128	115	116	92	62
CFSM	1.51	1.58	2.01	1.80	1.33	1.88	1.92	1.26	1.17	1.48	1.01	0.55
IN.	1.74	1.76	2.32	2.07	1.38	2.17	2.14	1.46	1.30	1.70	1.16	0.62

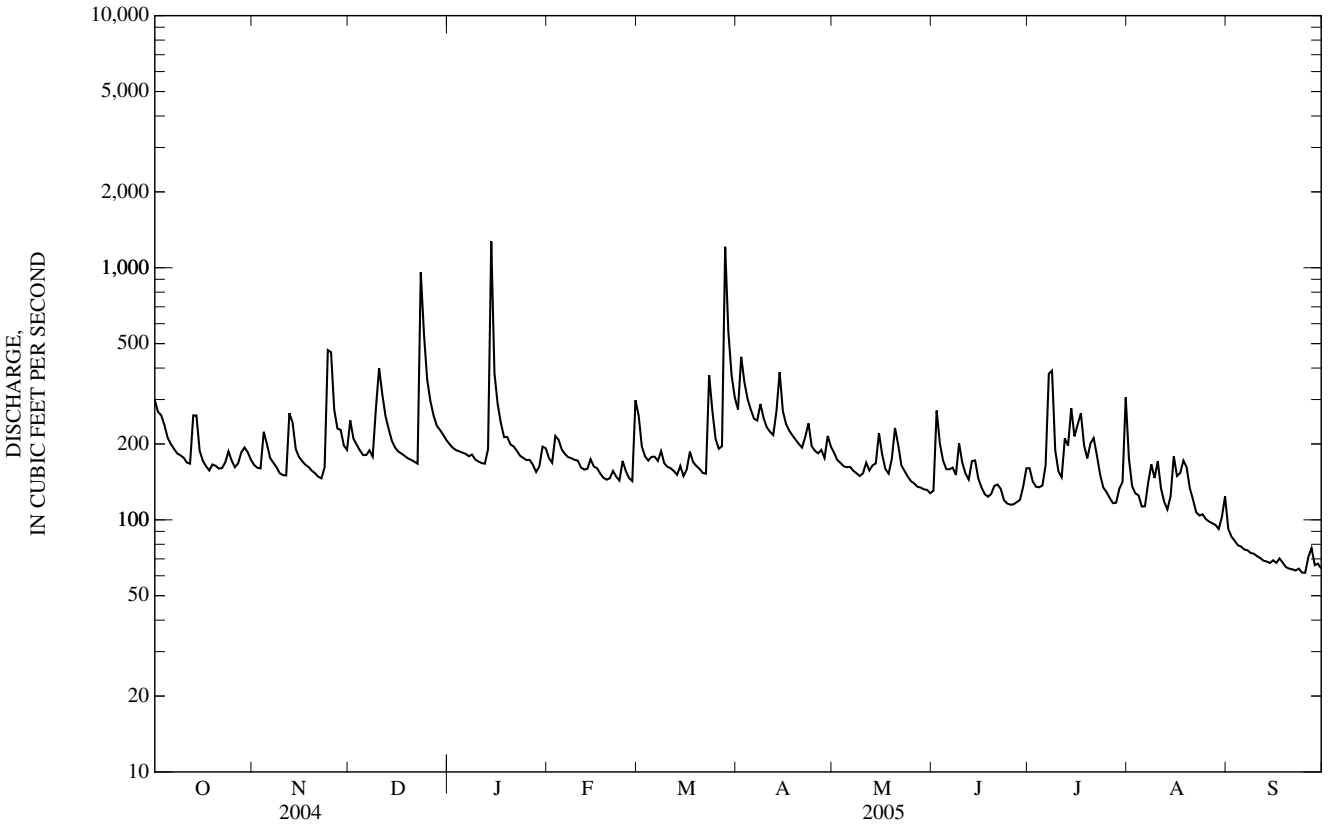
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	147	159	173	197	216	255	250	204	189	154	146	143
MAX	422	426	389	406	413	610	637	430	453	349	461	449
(WY)	(1977)	(1978)	(1997)	(1996)	(1990)	(1993)	(1980)	(1991)	(2003)	(1989)	(1994)	(2004)
MIN	42.0	46.9	59.2	70.2	67.4	97.4	100	66.2	39.5	48.3	23.6	48.2
(WY)	(2001)	(2002)	(2001)	(2001)	(2001)	(1988)	(1986)	(2002)	(2002)	(2002)	(2002)	(2001)

02112120 ROARING RIVER NEAR ROARING RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	73,418		68,214			
ANNUAL MEAN	201		187		186	
HIGHEST ANNUAL MEAN					269	1993
LOWEST ANNUAL MEAN					69.8	2002
HIGHEST DAILY MEAN	3,050	Sep 8	1,270	Jan 14	7,460	Aug 17, 1994
LOWEST DAILY MEAN	83	Sep 6	62	Sep 24	14	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	94	Aug 31	63	Sep 19	16	Aug 9, 2002
MAXIMUM PEAK FLOW			3,610	Jan 14	26,600*	Oct 17, 1975
MAXIMUM PEAK STAGE			7.21	Jan 14	22.54*	Oct 17, 1975
INSTANTANEOUS LOW FLOW			60	Sep 25	14*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.57		1.46		1.46	
ANNUAL RUNOFF (INCHES)	21.34		19.82		19.78	
10 PERCENT EXCEEDS	266		266		305	
50 PERCENT EXCEEDS	164		170		142	
90 PERCENT EXCEEDS	105		104		74	

* See REMARKS.
e Estimated.



02112120 ROARING RIVER NEAR ROARING RIVER, NC—Continued

PRECIPITATION RECORDS

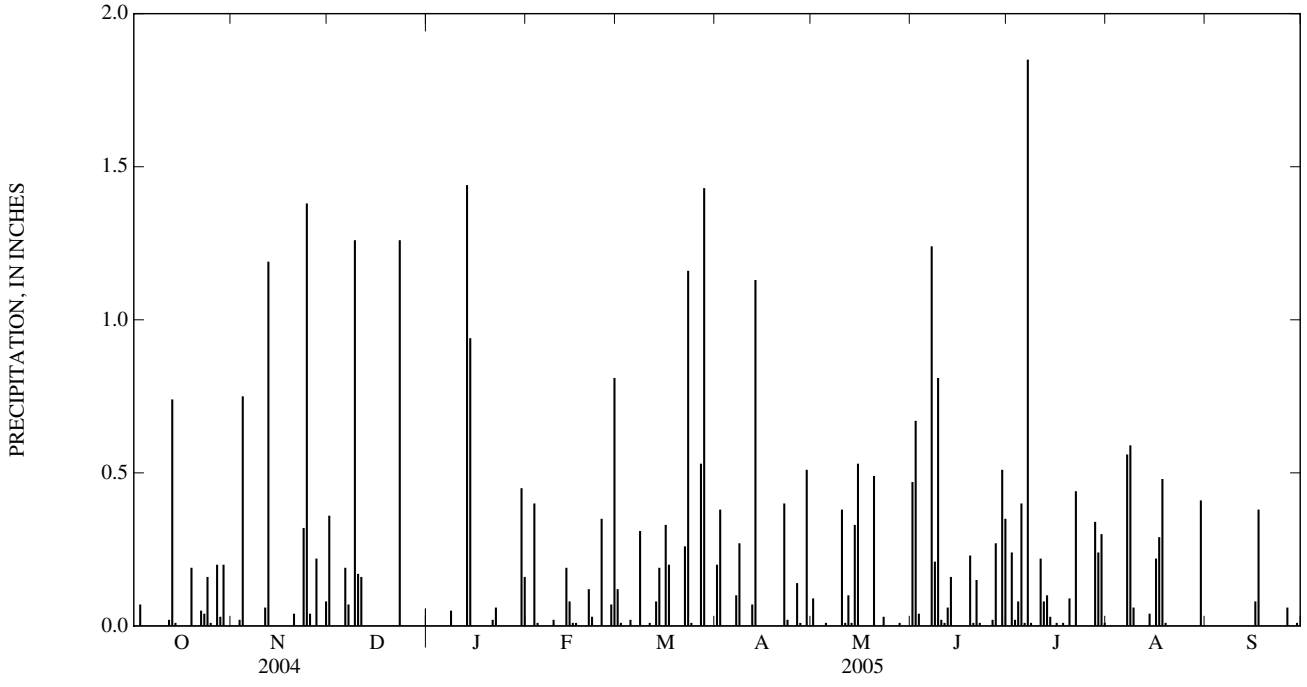
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Yadkin, Inc., the North Carolina Department of Environment and Natural Resources, and the U.S. Army Corps of Engineers, Wilmington District. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.36	0.00	0.00	0.12	0.20	0.09	0.47	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.01	0.38	0.00	0.67	0.24	0.00	0.00
3	0.07	0.02	0.00	0.00	0.40	0.00	0.00	0.00	0.04	0.02	0.00	0.00
4	0.00	0.75	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.08	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.40	0.00	0.00
6	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
7	0.00	0.00	0.07	0.00	0.00	0.00	0.10	0.00	1.24	1.85	0.56	0.00
8	0.00	0.00	0.00	0.05	0.00	0.31	0.27	0.00	0.21	0.01	0.59	0.00
9	0.00	0.00	1.26	0.00	0.02	0.00	0.00	0.00	0.81	0.00	0.06	0.00
10	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.38	0.02	0.00	0.00	0.00
11	0.00	0.06	0.16	0.00	0.00	0.01	0.00	0.01	0.01	0.22	0.00	0.00
12	0.02	1.19	0.00	0.00	0.00	0.00	0.07	0.10	0.06	0.08	0.00	0.00
13	0.74	0.00	0.00	1.44	0.19	0.08	1.13	0.01	0.16	0.10	0.00	0.00
14	0.01	0.00	0.00	0.94	0.08	0.19	0.00	0.33	0.00	0.03	0.04	0.00
15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.53	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.33	0.00	0.00	0.00	0.01	0.22	0.08
17	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.29	0.38
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.48	0.00
19	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.01	0.00
20	0.00	0.04	0.00	0.00	0.12	0.00	0.00	0.49	0.01	0.09	0.00	0.00
21	0.00	0.00	0.00	0.02	0.03	0.00	0.00	0.00	0.15	0.00	0.00	0.00
22	0.05	0.00	0.00	0.06	0.00	0.26	0.40	0.00	0.01	0.44	0.00	0.00
23	0.04	0.32	1.26	0.00	0.00	1.16	0.02	0.03	0.00	0.00	0.00	0.00
24	0.16	1.38	0.00	0.00	0.35	0.01	0.00	0.00	0.00	0.00	0.00	0.00
25	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.02	0.00	0.00	0.06
27	0.20	0.22	0.00	0.00	0.07	0.53	0.01	0.00	0.27	0.00	0.00	0.00
28	0.03	0.00	0.00	0.00	0.81	1.43	0.00	0.01	0.00	0.34	0.00	0.00
29	0.20	0.00	0.00	0.00	---	0.00	0.51	0.00	0.51	0.24	0.00	0.01
30	0.00	0.08	0.00	0.45	---	0.00	0.00	0.00	0.35	0.30	0.41	0.00
31	0.00	---	0.00	0.16	---	0.00	---	0.00	---	0.01	0.00	---
TOTAL	1.72	4.10	3.47	3.12	2.10	4.66	3.23	1.99	5.24	4.48	2.66	0.53



02112250 YADKIN RIVER AT ELKIN, NC

LOCATION.--Lat 36°14'28", long 80°50'48", Yadkin County, Hydrologic Unit 03040101, on right bank at downstream side of bridge on U.S. Highway 21 at Elkin, 0.3 mi downstream of Elkin River, and 362 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--869 mi^2.

PERIOD OF RECORD.--April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 866.03 ft above NGVD of 1929. Prior to Aug. 28, 1964, nonrecording gage on upstream side of bridge at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Considerable regulation by W. Kerr Scott Reservoir (station 02111391). Maximum gage height for period of record, from graph based on hourly gage-height readings and floodmark. Minimum discharge for period of record also occurred Aug. 10, 15, Sept. 12, 13, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 36.0 ft, from information by North Carolina State Highway Commission. Flood of August 1940 reached a stage of 37.5 ft. A discharge of 172 ft^3/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,220	1,240	1,870	1,290	1,670	1,880	2,560	1,330	885	1,040	1,110	955
2	2,080	1,200	1,860	1,340	1,350	1,840	2,130	1,260	1,510	1,040	1,110	707
3	1,670	1,120	1,550	1,360	1,420	1,560	2,750	1,240	1,730	1,320	994	649
4	1,490	1,410	1,510	1,330	1,580	1,300	2,280	1,200	1,530	1,240	889	636
5	1,380	1,770	1,480	1,250	1,520	1,400	1,920	1,140	1,280	1,190	881	702
6	1,340	1,940	1,470	1,240	1,440	1,460	1,880	1,150	983	1,140	900	666
7	1,300	1,520	1,510	1,220	1,290	1,420	1,710	1,140	991	3,220	924	647
8	1,260	1,180	1,470	1,220	1,300	1,510	1,770	1,160	1,460	3,160	1,020	597
9	1,210	1,170	1,870	1,200	1,370	1,500	1,750	1,120	1,790	2,660	1,100	583
10	1,170	1,160	2,990	1,190	1,280	1,330	1,700	1,010	1,930	2,450	1,110	682
11	1,160	1,160	2,860	1,150	1,240	1,260	1,360	1,230	1,510	2,370	1,030	683
12	1,120	2,020	2,250	1,140	1,230	1,220	1,440	1,160	1,360	2,420	938	672
13	1,810	2,110	2,000	1,160	1,230	1,200	1,820	1,080	1,230	2,760	838	662
14	1,880	1,850	1,830	6,070	1,290	1,230	2,630	1,070	1,610	1,800	855	658
15	1,460	1,840	1,540	3,610	1,260	1,220	2,240	1,260	2,320	1,590	945	664
16	1,450	1,470	1,510	2,720	1,240	1,270	1,970	1,440	1,900	2,080	943	666
17	1,230	1,470	1,480	2,090	1,210	1,400	1,510	1,160	1,100	2,170	970	672
18	1,010	1,290	1,410	1,750	1,150	1,400	1,710	1,070	954	2,210	1,400	628
19	1,140	1,210	1,470	1,570	1,110	1,260	1,560	1,170	981	1,980	1,880	551
20	1,200	1,290	1,560	1,530	1,110	1,220	1,390	1,430	1,140	1,970	1,730	546
21	1,250	1,270	1,380	1,520	1,150	1,200	1,380	1,430	1,090	1,890	1,500	552
22	1,160	1,170	1,320	1,480	1,130	1,210	1,550	1,160	1,060	1,660	929	560
23	1,170	1,200	3,460	1,450	1,100	2,730	1,730	1,030	1,020	1,430	883	557
24	1,250	2,050	3,450	1,320	1,230	2,910	1,460	1,050	969	1,120	885	550
25	1,220	3,030	2,930	1,250	1,330	2,240	1,330	1,030	836	975	904	550
26	1,180	2,250	2,710	1,230	1,260	1,770	1,300	989	835	1,010	848	610
27	1,160	2,470	2,080	1,250	1,190	1,510	1,330	918	848	1,030	789	639
28	1,260	2,420	1,510	1,270	1,580	6,290	1,270	936	984	1,040	781	602
29	1,310	1,980	1,530	1,220	---	4,260	1,300	935	893	1,340	767	585
30	1,360	1,510	1,510	1,340	---	3,680	1,390	927	1,200	1,270	807	576
31	1,280	---	1,450	1,470	---	3,410	---	905	---	1,330	1,110	---
TOTAL	42,180	48,770	58,820	50,230	36,260	59,090	52,120	35,130	37,929	53,905	31,770	19,007
MEAN	1,361	1,626	1,897	1,620	1,295	1,906	1,737	1,133	1,264	1,739	1,025	634
MAX	2,220	3,030	3,460	6,070	1,670	6,290	2,750	1,440	2,320	3,220	1,880	955
MIN	1,010	1,120	1,320	1,140	1,100	1,200	1,270	905	835	975	767	546

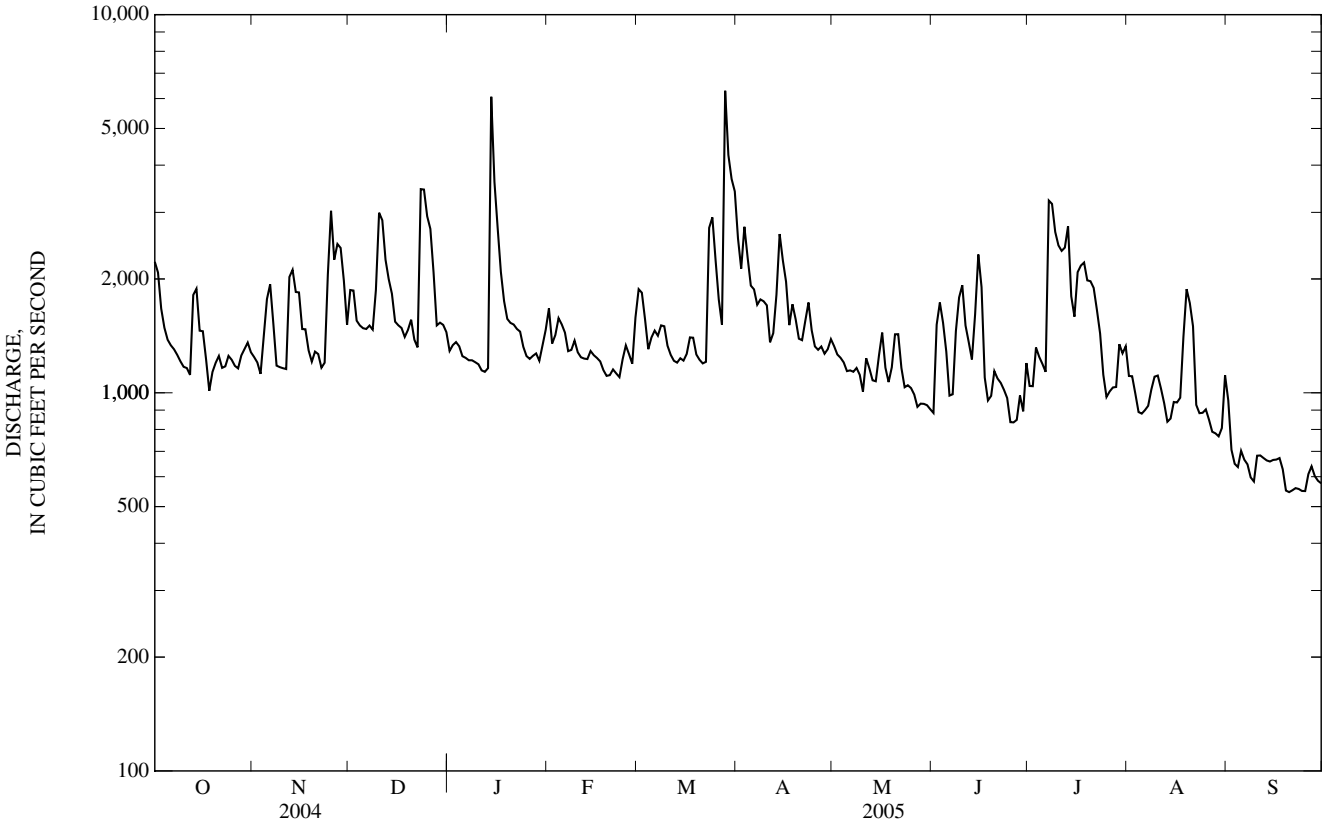
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	1,089	1,139	1,237	1,434	1,580	1,858	1,836	1,486	1,381	1,104	1,129	1,021
MAX	2,911	3,871	2,591	3,129	2,978	3,885	4,510	2,887	3,139	2,632	3,323	2,994
(WY)	(1991)	(1978)	(1974)	(1978)	(1990)	(1975)	(1980)	(1973)	(2003)	(2003)	(1994)	(2004)
MIN	368	346	479	583	567	745	723	510	327	331	244	409
(WY)	(2001)	(2002)	(2001)	(2001)	(2001)	(1988)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02112250 YADKIN RIVER AT ELKIN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	551,026		525,211			
ANNUAL MEAN	1,506		1,439		1,360	
HIGHEST ANNUAL MEAN					1,951	1973
LOWEST ANNUAL MEAN					508	2002
HIGHEST DAILY MEAN	12,600	Sep 8	6,290	Mar 28	21,500	Aug 10, 1970
LOWEST DAILY MEAN	625	Aug 10	546	Sep 20	193	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	683	Aug 4	552	Sep 19	211	Sep 8, 2002
MAXIMUM PEAK FLOW			10,100	Mar 28	29,100	Aug 17, 1994
MAXIMUM PEAK STAGE			12.35	Mar 28	24.88*	Apr 10, 1983
INSTANTANEOUS LOW FLOW			523	Sep 28	187*	Aug 9, 2002
10 PERCENT EXCEEDS	2,250		2,190		2,290	
50 PERCENT EXCEEDS	1,220		1,280		1,060	
90 PERCENT EXCEEDS	873		844		569	

* See REMARKS.



02112360 MITCHELL RIVER NEAR STATE ROAD, NC

LOCATION.--Lat 36°18'42", long 80°48'25", Surry County, Hydrologic Unit 03040101, on right bank 280 ft upstream from bridge on Secondary Road 1001, 1.8 mi upstream from Grass Creek, and 3.3 mi east of State Road.

DRAINAGE AREA.--78.8 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1952-58, 1963. April 1964 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 927.12 ft above NGVD of 1929. Prior to Aug. 29, 1964, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year affected by regulation of unknown origin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1900, about 18 ft in August 1940, from information by local resident; estimated discharge, 9,000 ft^3/s. A discharge of 16 ft^3/s was measured on Sept. 19, 1956.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	108	157	129	122	159	191	153	96	153	251	89
2	157	106	137	126	118	130	257	144	228	158	161	87
3	153	105	129	125	150	124	228	140	183	122	137	79
4	153	136	125	124	145	120	191	137	145	157	128	76
5	131	125	119	124	131	122	181	136	152	209	117	77
6	126	113	121	121	126	119	173	133	132	217	122	78
7	121	110	124	117	122	117	175	131	123	816	155	76
8	116	107	118	116	119	131	191	129	116	494	128	74
9	113	103	184	112	119	119	170	124	214	218	128	73
10	111	102	261	111	130	114	163	123	171	166	146	71
11	107	102	190	110	120	113	159	121	191	155	124	71
12	105	175	159	110	116	110	168	123	135	150	113	70
13	193	153	146	115	110	109	229	129	151	157	115	70
14	187	124	135	869	117	114	321	126	141	137	110	69
15	133	117	129	240	112	107	203	135	123	130	131	70
16	121	115	125	180	111	113	181	140	113	132	135	70
17	113	113	124	156	107	134	172	117	106	141	125	82
18	110	111	121	144	104	124	168	114	101	123	122	77
19	113	109	119	135	103	117	162	114	116	136	119	68
20	111	107	e115	134	104	113	158	147	119	145	110	66
21	109	104	e111	133	108	109	160	141	111	238	109	66
22	109	103	111	129	105	108	190	115	118	163	99	65
23	114	108	448	124	102	212	216	111	102	129	100	66
24	125	295	285	124	117	166	177	108	97	117	99	64
25	117	292	194	e122	109	143	168	106	96	108	95	65
26	111	172	169	e122	104	134	157	104	106	105	93	72
27	115	152	154	118	103	137	160	102	98	100	94	72
28	118	150	144	111	172	861	150	101	143	102	103	66
29	122	133	141	116	---	368	165	99	112	110	101	67
30	119	129	136	134	---	246	156	100	122	111	122	65
31	112	---	132	133	---	209	---	104	---	796	121	---
TOTAL	3,919	3,979	4,863	4,764	3,306	5,102	5,540	3,807	3,961	6,195	3,813	2,161
MEAN	126	133	157	154	118	165	185	123	132	200	123	72.0
MAX	193	295	448	869	172	861	321	153	228	816	251	89
MIN	105	102	111	110	102	107	150	99	96	100	93	64
CFSM	1.60	1.68	1.99	1.95	1.50	2.09	2.34	1.56	1.68	2.54	1.56	0.91
IN.	1.85	1.88	2.30	2.25	1.56	2.41	2.62	1.80	1.87	2.92	1.80	1.02

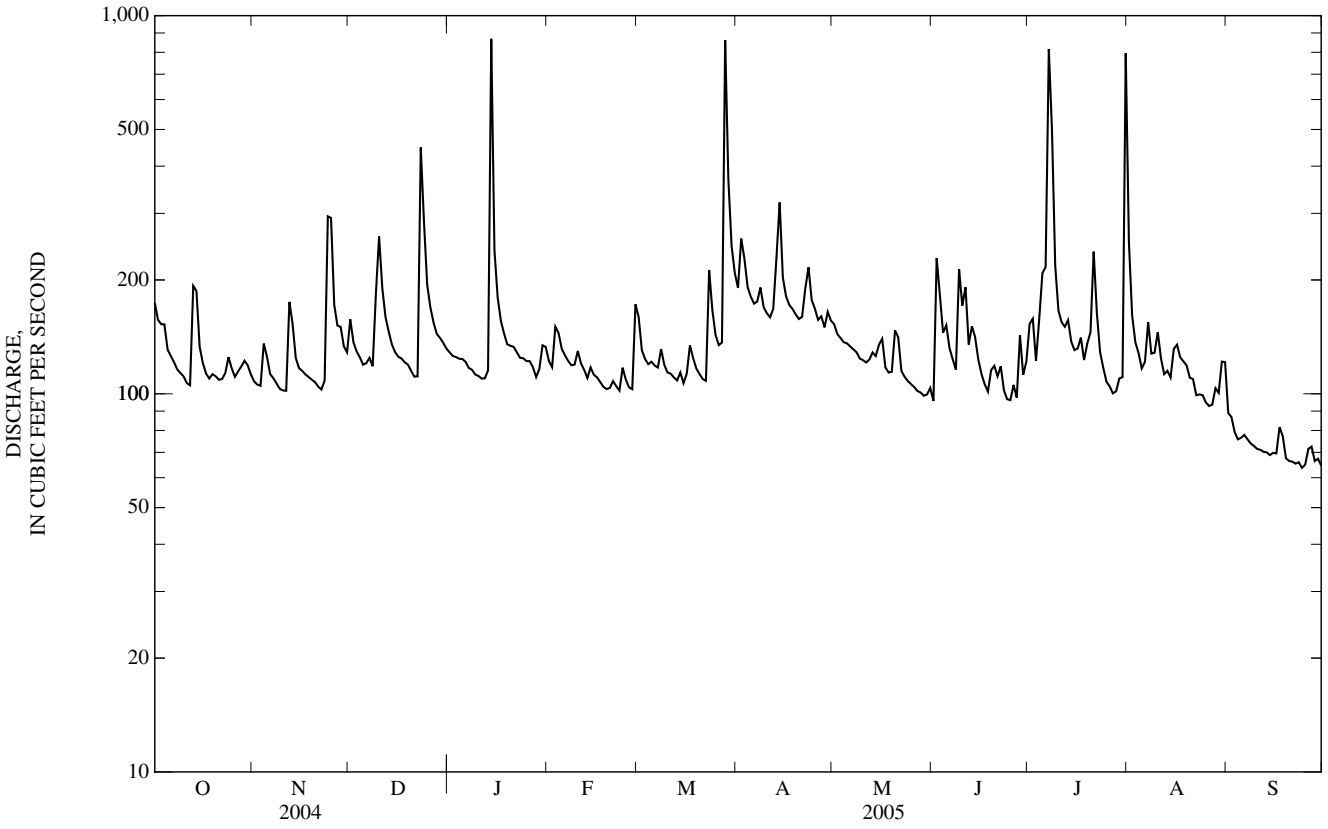
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	105	106	116	129	142	169	169	143	127	111	105	107
MAX	248	211	230	232	258	373	426	264	280	260	247	313
(WY)	(1991)	(1980)	(1974)	(1998)	(1966)	(1993)	(1983)	(1973)	(2003)	(2003)	(1970)	(1979)
MIN	32.7	32.0	47.0	48.3	54.2	72.8	69.1	52.0	31.0	35.9	24.6	38.6
(WY)	(2002)	(2002)	(1989)	(1981)	(2002)	(1981)	(1981)	(2002)	(2002)	(1986)	(2002)	(2001)

02112360 MITCHELL RIVER NEAR STATE ROAD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	48,086		51,410			
ANNUAL MEAN	131		141		127	
HIGHEST ANNUAL MEAN					182	2003
LOWEST ANNUAL MEAN					51.5	2002
HIGHEST DAILY MEAN	2,420	Sep 8	869	Jan 14	3,260	Aug 10, 1970
LOWEST DAILY MEAN	57	Sep 6	64	Sep 24	15	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	62	Aug 31	66	Sep 19	17	Sep 7, 2002
MAXIMUM PEAK FLOW			3,170	Jan 14	7,470	Sep 22, 1979
MAXIMUM PEAK STAGE			7.20	Jan 14	16.42	Sep 22, 1979
INSTANTANEOUS LOW FLOW			49*	Sep 4	12	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.67		1.79		1.61	
ANNUAL RUNOFF (INCHES)	22.70		24.27		21.93	
10 PERCENT EXCEEDS	173		188		202	
50 PERCENT EXCEEDS	110		122		102	
90 PERCENT EXCEEDS	78		98		54	

* See REMARKS.
e Estimated.



02113000 FISHER RIVER NEAR COPELAND, NC

LOCATION.--Lat 36°20'28", long 80°41'09", Surry County, Hydrologic Unit 03040101, on left bank 500 ft upstream from bridge on State Highway 268, 1 mi upstream from Cody Creek, and 2 mi northwest of Copeland.

DRAINAGE AREA.--128 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1931 to current year.

REVISED RECORDS.--WSP 1303: 1933(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 913 ft above NGVD of 1929, by barometer. Prior to Sept. 5, 1936, twice daily readings at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some irrigation diversions at times in the growing season. Maximum discharge for period of record, from rating curve extended above 7,500 ft^3/s on basis of slope-area measurement of peak flow; gage height: 18.4 ft. Minimum discharge for period of record also occurred Sept. 13, 14, 2002. Minimum discharge for current water year also occurred Sept. 25, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	260	151	228	172	177	273	261	195	118	140	294	112
2	232	149	194	168	163	206	475	180	231	203	193	99
3	214	147	177	164	228	191	323	175	212	123	167	94
4	208	179	168	162	229	183	262	170	168	190	169	90
5	185	186	162	160	188	184	241	167	151	188	149	87
6	175	159	159	157	176	179	225	169	137	213	199	85
7	168	154	162	154	170	170	220	165	130	887	202	82
8	160	149	156	153	167	185	224	162	134	969	166	80
9	158	141	272	150	164	169	212	155	320	237	167	79
10	156	139	527	147	165	163	197	152	189	168	183	77
11	148	139	293	146	153	159	193	150	161	145	162	77
12	145	298	224	144	151	159	187	150	149	150	142	74
13	402	274	197	145	152	153	289	156	165	166	135	72
14	321	191	178	2,560	178	157	558	161	172	173	128	70
15	193	172	169	440	169	148	274	168	144	150	142	71
16	169	163	162	299	162	152	237	171	130	170	174	70
17	159	158	161	248	158	194	220	150	119	225	164	88
18	151	154	158	219	152	185	210	147	115	150	141	79
19	155	151	156	207	147	168	205	165	113	196	140	72
20	155	150	e150	204	147	161	196	201	115	280	137	70
21	153	148	e150	203	154	155	195	183	112	201	147	74
22	151	144	e155	195	149	151	230	151	159	183	119	69
23	157	152	988	189	144	385	338	142	111	139	120	70
24	170	527	524	e190	162	276	218	138	101	121	121	67
25	164	654	290	e185	155	208	201	136	98	112	112	66
26	152	262	237	175	145	190	193	131	99	103	108	75
27	153	213	211	172	145	189	197	126	103	96	108	80
28	166	211	193	158	232	2,290	184	126	118	97	108	72
29	167	183	188	162	---	680	203	126	108	116	102	71
30	169	173	182	191	---	369	204	125	126	114	104	69
31	159	---	176	203	---	295	---	118	---	614	162	---
TOTAL	5,675	6,071	7,347	8,222	4,682	8,727	7,372	4,811	4,308	7,019	4,665	2,341
MEAN	183	202	237	265	167	282	246	155	144	226	150	78.0
MAX	402	654	988	2,560	232	2,290	558	201	320	969	294	112
MIN	145	139	150	144	144	148	184	118	98	96	102	66
CFSM	1.43	1.58	1.85	2.07	1.31	2.20	1.92	1.21	1.12	1.77	1.18	0.61
IN.	1.65	1.76	2.14	2.39	1.36	2.54	2.14	1.40	1.25	2.04	1.36	0.68

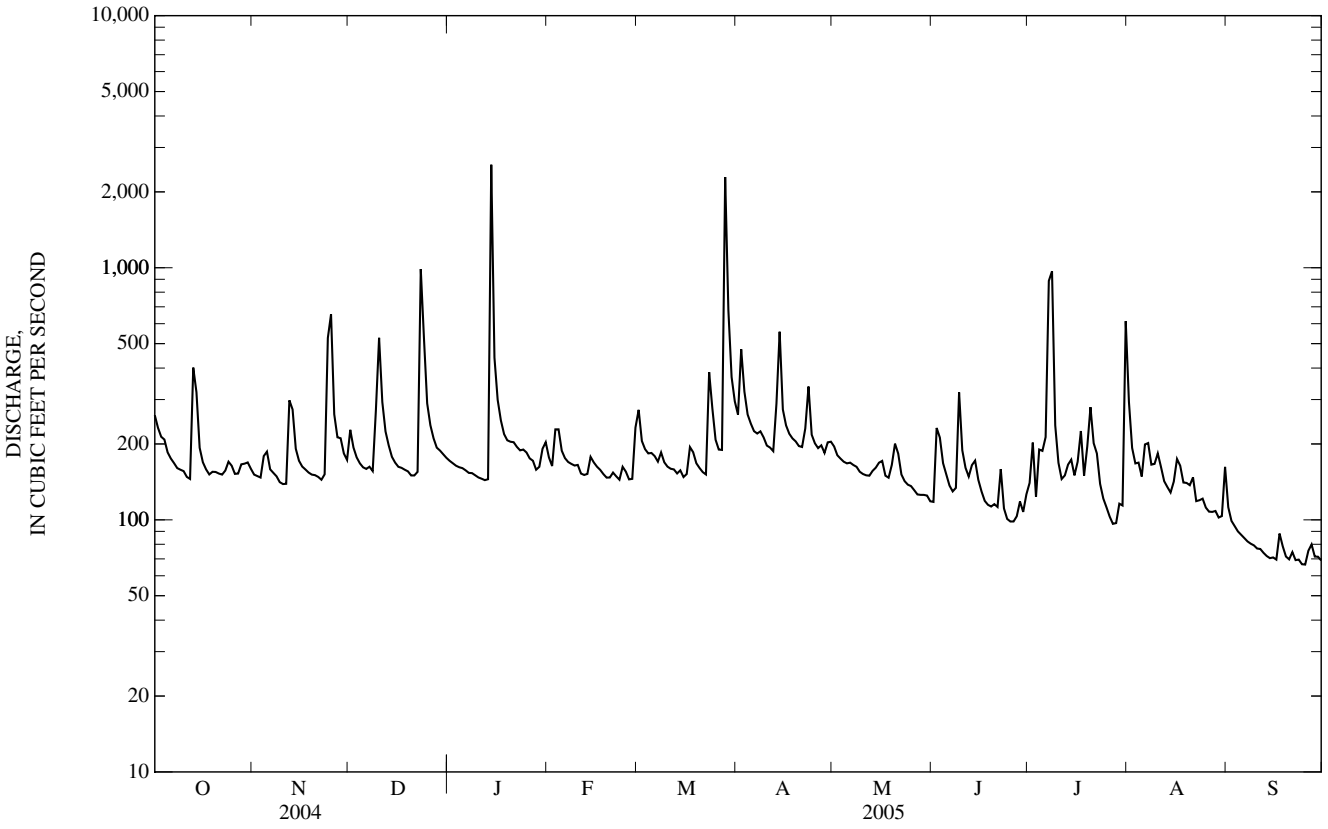
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005, BY WATER YEAR (WY)

MEAN	145	150	169	199	214	247	243	194	176	149	152	143
MAX	580	344	365	526	539	667	746	387	491	397	510	735
(WY)	(1938)	(1935)	(1974)	(1936)	(1960)	(1993)	(1983)	(1950)	(1947)	(1943)	(1940)	(1979)
MIN	40.2	48.1	58.1	54.4	68.8	103	102	61.7	29.7	31.3	24.1	27.9
(WY)	(1942)	(2002)	(1956)	(1956)	(1934)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(1954)

02113000 FISHER RIVER NEAR COPELAND, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005	
ANNUAL TOTAL	72,990		71,240			
ANNUAL MEAN	199		195		182	
HIGHEST ANNUAL MEAN					281	1979
LOWEST ANNUAL MEAN					73.6	2002
HIGHEST DAILY MEAN	4,230	Sep 8	2,560	Jan 14	12,100	Sep 22, 1979
LOWEST DAILY MEAN	59	Sep 6	66	Sep 25	11	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	64	Aug 31	70	Sep 19	14	Sep 8, 2002
MAXIMUM PEAK FLOW			5,980	Jan 14	34,200*	Sep 22, 1979
MAXIMUM PEAK STAGE			10.33	Jan 14	19.61	Sep 22, 1979
INSTANTANEOUS LOW FLOW			65*	Sep 24	10*	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	1.56		1.52		1.42	
ANNUAL RUNOFF (INCHES)	21.21		20.70		19.27	
10 PERCENT EXCEEDS	262		261		289	
50 PERCENT EXCEEDS	155		162		136	
90 PERCENT EXCEEDS	96		103		66	

* See REMARKS.
e Estimated.



02113000 FISHER RIVER NEAR COPELAND, NC—Continued

PRECIPITATION RECORDS

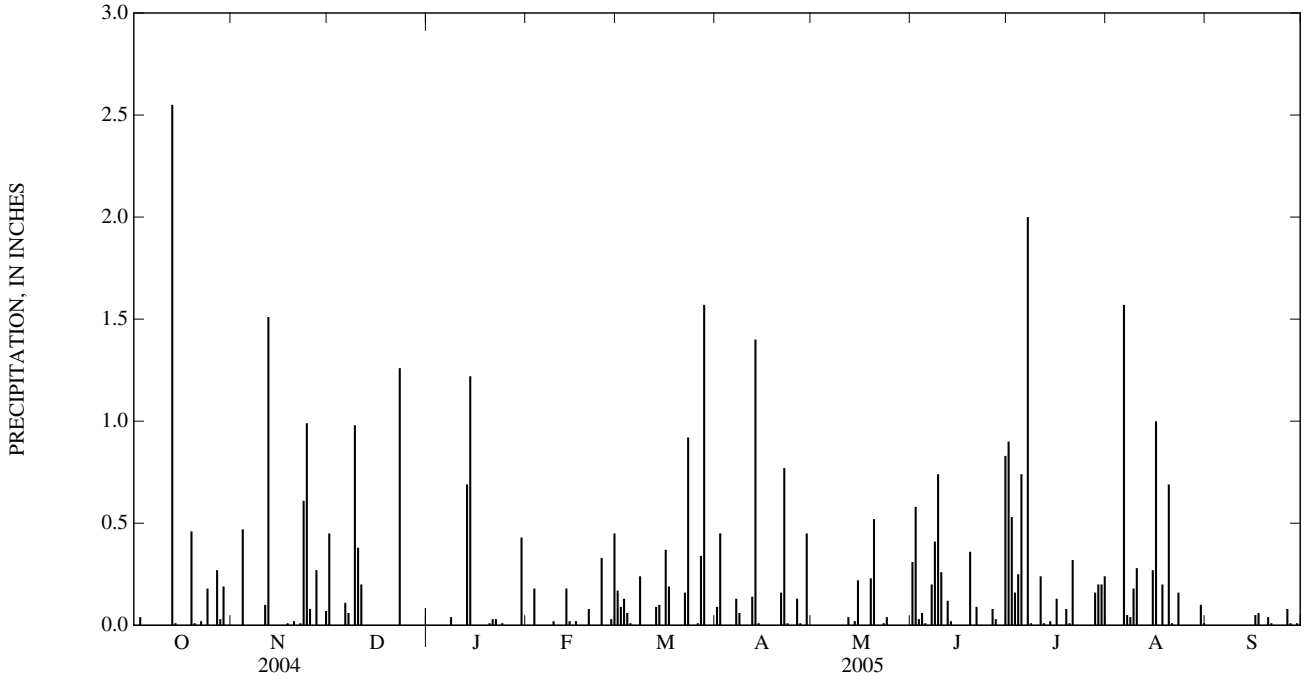
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.45	0.00	0.00	0.17	0.09	0.00	0.31	0.90	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.09	0.45	0.00	0.58	0.53	0.00	0.00
3	0.04	0.00	0.00	0.00	0.18	0.13	0.00	0.00	0.03	0.16	0.00	0.00
4	0.00	0.47	0.00	0.00	0.00	0.06	0.00	0.00	0.06	0.25	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.74	0.00	0.00
6	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.57	0.00
7	0.00	0.00	0.06	0.00	0.00	0.00	0.13	0.00	0.20	2.00	0.05	0.00
8	0.00	0.00	0.00	0.04	0.00	0.24	0.06	0.00	0.41	0.01	0.04	0.00
9	0.00	0.00	0.98	0.00	0.02	0.00	0.00	0.00	0.74	0.00	0.18	0.00
10	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.28	0.00
11	0.00	0.10	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00
12	0.00	1.51	0.00	0.00	0.00	0.00	0.14	0.04	0.12	0.01	0.00	0.00
13	2.55	0.00	0.00	0.69	0.18	0.09	1.40	0.00	0.02	0.00	0.00	0.00
14	0.01	0.00	0.00	1.22	0.02	0.10	0.01	0.02	0.00	0.02	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.27	0.00
16	0.00	0.00	0.00	0.00	0.02	0.37	0.00	0.00	0.00	0.13	1.00	0.05
17	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.06
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00
19	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.36	0.08	0.00	0.00
20	0.01	0.02	0.00	0.01	0.08	0.00	0.00	0.52	0.00	0.01	0.69	0.04
21	0.00	0.00	0.00	0.03	0.00	0.00	0.16	0.00	0.09	0.32	0.01	0.01
22	0.02	0.01	0.00	0.03	0.00	0.16	0.77	0.00	0.00	0.00	0.00	0.00
23	0.00	0.61	1.26	0.00	0.00	0.92	0.01	0.01	0.00	0.00	0.16	0.00
24	0.18	0.99	0.00	0.01	0.33	0.00	0.00	0.04	0.00	0.00	0.00	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.08	0.00	0.00	0.08
27	0.27	0.27	0.00	0.00	0.03	0.34	0.01	0.00	0.03	0.00	0.00	0.01
28	0.03	0.00	0.00	0.00	0.45	1.57	0.00	0.00	0.00	0.16	0.00	0.00
29	0.19	0.00	0.00	0.00	---	0.00	0.45	0.00	0.00	0.20	0.00	0.01
30	0.00	0.07	0.00	0.43	---	0.00	0.00	0.00	0.83	0.20	0.10	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.24	0.01	---
TOTAL	3.76	4.14	3.44	2.46	1.31	4.45	3.81	1.08	4.13	6.20	4.56	0.26



0211351575 HOGAN CREEK AT SECONDARY ROAD 2038 NEAR SILOAM, NC

LOCATION.--Lat 35°19'20", long 80°36'38", Surry County, Hydrologic Unit 03040101, on right bank, at downstream side of bridge on Secondary Road 2038, 2.0 mi southwest of Pine Hill and 3.1 mi northwest of Siloam.

DRAINAGE AREA.--3.3 mi^2.

PERIOD OF RECORD.--October 2004 to September 2005.

REMARKS.--Station operated in cooperation with the North Carolina Division of Soil and Water Conservation to define the effects of stream restoration and the implementation of Best Management Practices on stream water quality and sediment transport.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
NOV													
10...	0845	--	--	--	--	--	--	--	--	E.08	<.010	--	.40
24...	1530	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
09...	1545	--	--	--	--	--	--	--	--	--	--	--	--
21...	1500	--	--	--	--	--	--	--	--	--	--	--	--
22...	1700	--	--	--	--	--	--	--	--	--	--	--	--
30...	1115	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	1500	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	0900	--	--	--	--	--	--	--	--	--	--	--	--
24...	1500	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	1615	--	--	--	--	--	--	--	--	--	--	--	--
24...	1545	--	--	--	--	--	--	--	--	--	--	--	--
30...	1100	736	9.6	92	7.1	57	11.9	14	17	.26	.014	.72	.72
APR													
07...	1130	--	--	--	--	--	--	--	--	--	--	--	--
21...	1230	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05...	0800	--	--	--	--	--	--	--	--	--	--	--	--
20...	0930	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
01...	1715	--	--	--	--	--	--	--	--	--	--	--	--
09...	1445	738	7.7	89	7.1	54	21.0	14	17	.20	.022	.44	.44
16...	1428	--	--	--	--	--	--	--	--	--	--	--	--
30...	1615	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	1331	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
11...	1245	--	--	--	--	--	--	--	--	--	--	--	--
18...	1130	739	8.8	102	7.3	57	21.1	16	20	.24	E.008	--	.40

0211351575 HOGAN CREEK AT SECONDARY ROAD 2038 NEAR SILOAM, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitro-gen, water, unfltrd mg/L (00605)	Total nitro-gen, water, unfltrd mg/L (00600)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Sus-pended sedi-ment concen-tration mg/L (80154)
NOV						
10...	E.001	--	--	E.004	<.04	--
24...	--	--	--	--	--	68
DEC						
09...	--	--	--	--	--	86
21...	--	--	--	--	--	39
22...	--	--	--	--	--	5
30...	--	--	--	--	--	7
JAN						
13...	--	--	--	--	--	4
FEB						
10...	--	--	--	--	--	4
24...	--	--	--	--	--	5
MAR						
10...	--	--	--	--	--	4
24...	--	--	--	--	--	22
30...	.003	.25	.98	.011	.04	12
APR						
07...	--	--	--	--	--	9
21...	--	--	--	--	--	7
MAY						
05...	--	--	--	--	--	4
20...	--	--	--	--	--	255
JUN						
01...	--	--	--	--	--	9
09...	.004	.17	.64	.014	.05	--
16...	--	--	--	--	--	9
30...	--	--	--	--	--	12
JUL						
08...	--	--	--	--	--	37
AUG						
11...	--	--	--	--	--	7
18...	E.001	--	.65	.012	.04	15

Remark codes used in this table:
< -- Less than.
E -- Estimated.

0211371675 PAULS CREEK ABOVE SECONDARY ROAD 1625 NEAR PINE RIDGE, NC

LOCATION.--Lat 36°32'29", long 80°40'16", Surry County, Hydrologic Unit 03040101, on left bank, at ford on private unpaved road approximately 200 ft west of Old Rail Road, 3.4 mi northwest of Toast, and 3.8 mi northeast of Pine Ridge.

DRAINAGE AREA.--20.7 mi^2.

PERIOD OF RECORD.--October 2004 September 2005.

REMARKS.--Station operated in cooperation with the North Carolina Division of Soil and Water Conservation to define the effects of stream restoration and the implementation of Best Management Practices on stream water quality and sediment transport.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
21...	1600	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
09...	1300	739	11.0	101	6.9	76	10.1	--	--	<.10	<.010	--	.37
24...	1415	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
09...	1500	--	--	--	--	--	--	--	--	--	--	--	--
22...	1600	--	--	--	--	--	--	--	--	--	--	--	--
30...	1000	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	1545	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	1000	--	--	--	--	--	--	--	--	--	--	--	--
24...	1600	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	1700	--	--	--	--	--	--	--	--	--	--	--	--
24...	1445	--	--	--	--	--	--	--	--	--	--	--	--
29...	1530	724	9.2	94	7.1	91	13.9	9	10	.16	.011	.64	.64
APR													
07...	1230	--	--	--	--	--	--	--	--	--	--	--	--
21...	1130	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05...	0900	--	--	--	--	--	--	--	--	--	--	--	--
20...	1030	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
01...	1630	--	--	--	--	--	--	--	--	--	--	--	--
10...	1015	737	8.7	97	7.1	85	18.8	9	11	.15	.010	--	.42
16...	1532	--	--	--	--	--	--	--	--	--	--	--	--
30...	1521	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	1424	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
10...	1500	--	--	--	--	--	--	--	--	--	--	--	--
19...	0845	735	9.8	111	7.2	79	19.6	12	15	.12	<.010	.43	.44

0211371675 PAULS CREEK ABOVE SECONDARY ROAD 1625 NEAR PINE RIDGE, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT						
21...	--	--	--	--	--	3
NOV						
09...	E.001	--	--	<.006	<.04	--
24...	--	--	--	--	--	88
DEC						
09...	--	--	--	--	--	35
22...	--	--	--	--	--	4
30...	--	--	--	--	--	4
JAN						
13...	--	--	--	--	--	3
FEB						
10...	--	--	--	--	--	5
24...	--	--	--	--	--	5
MAR						
10...	--	--	--	--	--	3
24...	--	--	--	--	--	6
29...	.002	.15	.80	E.005	E.03	45
APR						
07...	--	--	--	--	--	12
21...	--	--	--	--	--	9
MAY						
05...	--	--	--	--	--	4
20...	--	--	--	--	--	292
JUN						
01...	--	--	--	--	--	28
10...	E.001	.14	.57	E.005	E.03	--
16...	--	--	--	--	--	7
30...	--	--	--	--	--	7
JUL						
08...	--	--	--	--	--	28
AUG						
10...	--	--	--	--	--	5
19...	.002	--	.56	E.004	<.04	8

Remark codes used in this table:
< -- Less than.
E -- Estimated.

02113850 ARARAT RIVER AT ARARAT, NC

LOCATION.--Lat 36°24'16", long 80°33'42", Surry County, Hydrologic Unit 03040101, on right bank 265 ft upstream from bridge on Secondary Road 2019 at Ararat, and 300 ft downstream of Flat Shoal Creek.

DRAINAGE AREA.--231 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 880.97 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 20, 1999.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 14, 1947, reached a stage of 21.4 ft, result of failure of dams upstream; discharge, 26,000 ft^3/s, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	433	238	428	295	369	491	428	339	207	214	371	e171
2	397	235	355	286	352	402	875	308	313	208	269	e167
3	371	236	320	283	468	372	555	299	310	192	242	e161
4	352	284	303	282	463	360	452	290	259	315	232	e156
5	325	290	292	280	400	364	414	283	241	328	215	e150
6	315	256	287	279	367	354	390	284	218	264	215	e144
7	318	248	300	274	362	342	386	278	235	930	224	e140
8	309	243	286	275	365	394	403	271	492	1,180	220	e136
9	310	229	476	270	358	355	381	260	469	401	253	e133
10	301	224	908	265	351	336	355	255	465	293	236	e129
11	287	224	539	265	335	330	348	271	391	261	211	e127
12	283	570	428	266	328	325	342	260	282	283	195	e123
13	902	446	381	265	331	317	451	265	282	417	186	e119
14	518	303	341	e4,570	368	332	481	264	334	399	185	116
15	312	272	320	e961	357	315	382	284	254	414	201	118
16	269	260	309	557	342	327	351	280	228	442	205	133
17	249	253	307	473	327	398	338	246	212	402	332	159
18	242	249	304	427	315	366	331	240	204	336	220	134
19	252	244	e280	406	310	338	321	263	213	726	207	123
20	251	244	e275	401	313	326	314	376	213	594	211	139
21	244	238	e265	399	336	317	313	328	205	405	e180	183
22	241	234	e265	382	322	313	387	254	201	353	e174	128
23	246	272	1,100	371	311	596	543	241	190	326	e167	127
24	260	802	788	e358	343	480	365	235	178	284	e163	121
25	250	1,050	443	357	329	398	333	231	176	263	e160	120
26	236	456	385	355	310	376	320	226	173	244	e160	130
27	245	377	346	345	309	372	334	218	175	227	e159	139
28	254	377	325	327	466	2,370	311	219	271	222	e157	130
29	251	321	316	324	---	931	359	219	375	254	e155	136
30	252	306	313	410	---	544	359	216	308	262	e167	130
31	244	---	304	413	---	462	---	208	---	613	e210	---
TOTAL	9,719	9,981	12,289	15,421	9,907	14,303	11,922	8,211	8,074	12,052	6,482	4,122
MEAN	314	333	396	497	354	461	397	265	269	389	209	137
MAX	902	1,050	1,100	4,570	468	2,370	875	376	492	1,180	371	183
MIN	236	224	265	265	309	313	311	208	173	192	155	116
CFSM	1.36	1.44	1.72	2.15	1.53	2.00	1.72	1.15	1.17	1.68	0.91	0.59
IN.	1.57	1.61	1.98	2.48	1.60	2.30	1.92	1.32	1.30	1.94	1.04	0.66

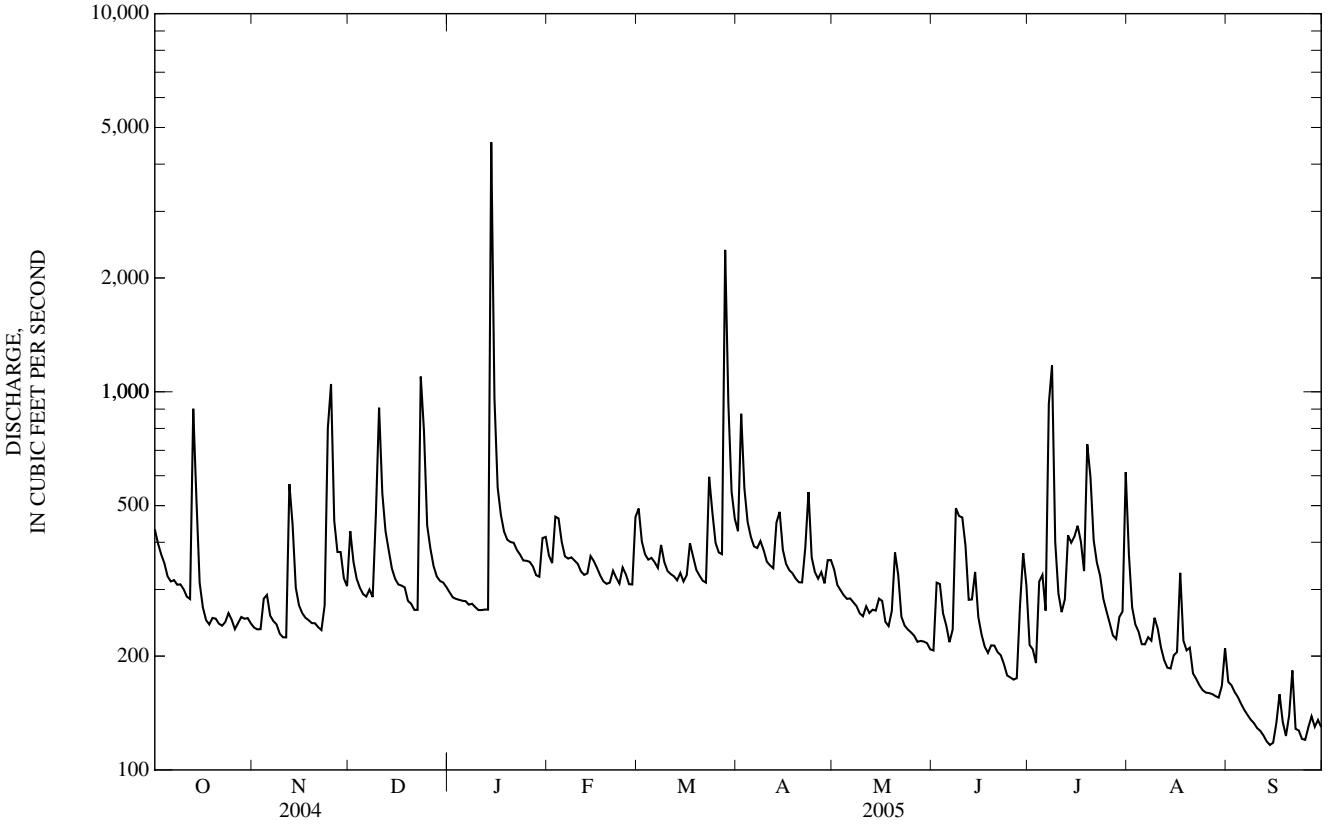
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	234	251	285	335	363	428	427	351	320	260	249	232
MAX	587	537	584	743	691	992	1,048	591	855	658	930	879
(WY)	(1977)	(1993)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(2003)	(2003)	(2003)	(1979)
MIN	83.1	90.3	121	120	141	172	170	143	80.3	81.9	43.0	88.2
(WY)	(2001)	(2002)	(2001)	(1981)	(2001)	(1981)	(1967)	(2002)	(2002)	(1986)	(2002)	(1998)

02113850 ARARAT RIVER AT ARARAT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	122,037		122,483			
ANNUAL MEAN	333		336		311	
HIGHEST ANNUAL MEAN					493	2003
LOWEST ANNUAL MEAN					137	2002
HIGHEST DAILY MEAN	3,800	Sep 28	4,570	Jan 14	13,600	Sep 22, 1979
LOWEST DAILY MEAN	143	Sep 6	116	Sep 14	13	Aug 19, 1999
ANNUAL SEVEN-DAY MINIMUM	153	Sep 1	124	Sep 9	23	Aug 24, 1981
MAXIMUM PEAK FLOW			10,200	Jan 14	35,000	Sep 22, 1979
MAXIMUM PEAK STAGE			14.29	Jan 14	24.46	Sep 22, 1979
INSTANTANEOUS LOW FLOW			110	Sep 16	12*	Aug 19, 1999
ANNUAL RUNOFF (CFSM)	1.44		1.45		1.35	
ANNUAL RUNOFF (INCHES)	19.65		19.72		18.30	
10 PERCENT EXCEEDS	437		458		506	
50 PERCENT EXCEEDS	280		303		240	
90 PERCENT EXCEEDS	192		169		120	

* See REMARKS.
e Estimated.



02113850 ARARAT RIVER AT ARARAT, NC—Continued

PRECIPITATION RECORDS

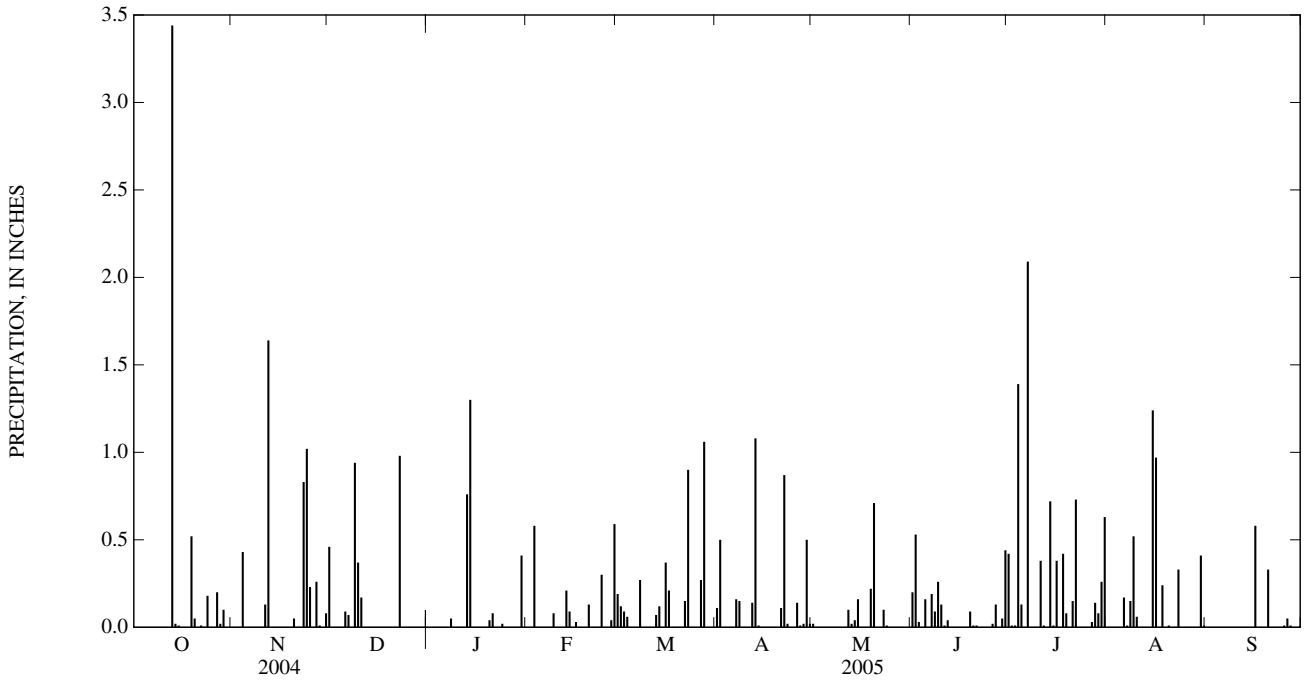
PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.46	0.00	0.00	0.19	0.11	0.02	0.20	0.42	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.12	0.50	0.00	0.53	0.01	0.00	0.00
3	0.00	0.00	0.00	0.00	0.58	0.09	0.00	0.00	0.03	0.01	0.00	0.00
4	0.00	0.43	0.00	0.00	0.00	0.06	0.00	0.00	0.00	1.39	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.13	0.00	0.00
6	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00
7	0.00	0.00	0.07	0.00	0.00	0.00	0.16	0.00	0.19	2.09	0.01	0.00
8	0.00	0.00	0.00	0.05	0.00	0.27	0.15	0.00	0.09	0.00	0.15	0.00
9	0.00	0.00	0.94	0.00	0.08	0.00	0.00	0.00	0.26	0.00	0.52	0.00
10	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.06	0.00
11	0.00	0.13	0.17	0.00	0.00	0.00	0.00	0.00	0.01	0.38	0.00	0.00
12	0.00	1.64	0.00	0.00	0.00	0.00	0.14	0.10	0.04	0.01	0.00	0.00
13	3.44	0.00	0.00	0.76	0.21	0.07	1.08	0.02	0.00	0.00	0.00	0.00
14	0.02	0.00	0.00	1.30	0.09	0.12	0.01	0.04	0.00	0.72	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01	1.24	0.00
16	0.00	0.00	0.00	0.00	0.03	0.37	0.00	0.00	0.00	0.38	0.97	0.58
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.24	0.00
19	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.09	0.08	0.00	0.00
20	0.05	0.05	0.00	0.04	0.13	0.00	0.00	0.71	0.01	0.00	0.01	0.33
21	0.00	0.00	0.00	0.08	0.00	0.00	0.11	0.00	0.01	0.15	0.00	0.00
22	0.01	0.00	0.00	0.00	0.00	0.15	0.87	0.00	0.00	0.73	0.00	0.00
23	0.00	0.83	0.98	0.00	0.00	0.90	0.02	0.10	0.00	0.00	0.33	0.00
24	0.18	1.02	0.00	0.02	0.30	0.00	0.00	0.01	0.00	0.00	0.00	0.00
25	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.02	0.00	0.00	0.05
27	0.20	0.26	0.00	0.00	0.04	0.27	0.01	0.00	0.13	0.03	0.00	0.01
28	0.02	0.01	0.00	0.00	0.59	1.06	0.02	0.00	0.00	0.14	0.00	0.00
29	0.10	0.00	0.00	0.00	---	0.00	0.50	0.00	0.05	0.08	0.00	0.00
30	0.00	0.08	0.00	0.41	---	0.00	0.02	0.00	0.44	0.26	0.41	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.63	0.01	---
TOTAL	4.55	4.68	3.08	2.66	2.05	3.88	3.84	1.38	2.39	8.07	4.12	0.98



0211397263 BULL CREEK AT ASH HILL, NC

LOCATION.--Lat 36°23'23", long 80°34'40", Surry County, Hydrologic Unit 03040101, on left bank, at downstream side of culvert on Secondary Road 2019, 0.2 mi southwest of Ash Hill, and 6.0 mi west of Pilot Mountain.

DRAINAGE AREA.--3.3 mi^2.

PERIOD OF RECORD.--June 2004 September 2005.

REMARKS.--Station operated in cooperation with the North Carolina Division of Soil and Water Conservation to define the effects of stream restoration and the implementation of Best Management Practices on stream water quality and sediment transport.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Suspended sediment concentration mg/L (80154)
JUN		
17...	1500	84
24...	1615	60
JUL		
01...	1445	13
15...	1715	9
AUG		
12...	1345	86
26...	1730	8
SEP		
09...	1545	24
23...	1030	6
30...	1545	17

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bicarbonate, wat unf incrm. titr., field, mg/L (00450)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate water, fltrd, mg/L as N (00618)	Nitrite + nitrate water fltrd, mg/L as N (00631)
OCT													
07...	1245	--	--	--	--	--	--	--	--	--	--	--	--
21...	1515	--	--	--	--	--	--	--	--	--	--	--	--
NOV													
10...	1045	--	--	--	--	--	--	--	--	.12	.012	.71	.72
24...	1500	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
09...	1530	--	--	--	--	--	--	--	--	--	--	--	--
22...	1630	--	--	--	--	--	--	--	--	--	--	--	--
30...	1100	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
13...	1515	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
10...	0915	--	--	--	--	--	--	--	--	--	--	--	--
24...	1530	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
10...	1600	--	--	--	--	--	--	--	--	--	--	--	--
24...	1530	--	--	--	--	--	--	--	--	--	--	--	--
30...	0930	736	9.6	90	7.3	59	10.8	13	16	.32	.050	.84	.85
APR													
21...	1200	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
05...	0830	--	--	--	--	--	--	--	--	--	--	--	--
20...	1000	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
01...	1700	--	--	--	--	--	--	--	--	--	--	--	--
09...	1230	735	7.7	90	7.0	59	21.1	13	16	.38	.076	.82	.84
16...	1446	--	--	--	--	--	--	--	--	--	--	--	--
30...	1556	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
08...	1343	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
11...	0930	--	--	--	--	--	--	--	--	--	--	--	--
18...	1615	737	9.3	109	7.3	64	21.7	17	21	.40	.048	.70	.71

0211397263 BULL CREEK AT ASH HILL, NC—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005—CONTINUED

Date	Nitrite water, fltrd, mg/L as N (00613)	Organic nitrogen, water, unfltrd mg/L (00605)	Total nitrogen, water, unfltrd mg/L (00600)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd mg/L (00665)	Suspended sediment concentration mg/L (80154)
OCT						
07...	--	--	--	--	--	5
21...	--	--	--	--	--	10
NOV						
10...	.003	.10	.83	<.006	<.04	3
24...	--	--	--	--	--	64
DEC						
09...	--	--	--	--	--	272
22...	--	--	--	--	--	3
30...	--	--	--	--	--	5
JAN						
13...	--	--	--	--	--	4
FEB						
10...	--	--	--	--	--	6
24...	--	--	--	--	--	8
MAR						
10...	--	--	--	--	--	7
24...	--	--	--	--	--	24
30...	.005	.27	1.2	.009	.06	18
APR						
21...	--	--	--	--	--	7
MAY						
05...	--	--	--	--	--	6
20...	--	--	--	--	--	77
JUN						
01...	--	--	--	--	--	14
09...	.020	.30	1.2	.008	.04	--
16...	--	--	--	--	--	11
30...	--	--	--	--	--	15
JUL						
08...	--	--	--	--	--	131
AUG						
11...	--	--	--	--	--	14
18...	.008	.36	1.1	E.005	.06	27

Remark codes used in this table:
< -- Less than.
E -- Estimated.

02114450 LITTLE YADKIN RIVER AT DALTON, NC

LOCATION.--Lat 36°17'56", long 80°25'52", Stokes County, Hydrologic Unit 03040101, on left bank 1,200 ft downstream of bridge on U.S. Highway 52, 1.0 mi southwest of Dalton, 1.3 mi downstream of Southern Railway bridge, and 2.0 mi downstream of Danbury Creek.

DRAINAGE AREA.--42.8 mi^2.

PERIOD OF RECORD.--August 1960 to current year.

REVISED RECORDS.--WSP 2104: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 813.7 ft above NGVD of 1929 (North Carolina State Highway Commission bench mark). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A Natural Resources Conservation Service flood-control dam on upstream tributary, drainage area 4.7 mi^2 with flood storage of 695 acre-ft, was completed on June 21, 1977. Maximum discharge for period of record, from rating curve extended above 7,700 ft^3/s on basis of slope-area measurement at gage height 17.86 ft. Minimum discharge for period of record also occurred Aug. 25, 26, 2002. Minimum discharge for current water year also occurred Sept. 14, 15, 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	22	63	33	32	87	42	28	17	23	23	10
2	71	22	52	32	29	55	64	24	32	21	18	9.8
3	46	23	44	32	68	44	47	23	26	17	16	9.5
4	36	37	40	32	64	38	39	22	22	37	15	9.2
5	28	32	37	32	41	36	36	23	19	25	14	8.6
6	24	26	36	32	35	33	34	22	17	19	15	7.8
7	23	25	38	31	32	31	34	22	69	1,050	18	8.3
8	22	23	35	32	31	39	36	22	38	372	16	7.8
9	22	22	94	31	30	33	32	21	23	120	79	7.7
10	21	22	323	31	29	30	30	22	22	72	26	7.7
11	21	22	165	30	26	30	30	22	24	41	20	7.0
12	21	125	90	30	26	28	29	20	19	32	17	6.9
13	37	90	63	30	26	28	37	29	19	24	14	7.1
14	77	44	49	585	31	30	38	22	19	23	13	6.8
15	34	34	43	142	28	27	32	60	16	27	12	6.9
16	26	30	40	68	27	31	29	42	15	22	13	6.9
17	23	28	38	44	26	48	26	24	13	22	18	10
18	22	27	37	36	24	43	26	21	13	20	15	9.0
19	27	25	36	34	24	35	26	30	14	20	14	7.9
20	32	25	e35	32	24	32	25	122	15	18	17	8.0
21	25	24	e34	32	27	30	24	76	14	17	18	12
22	24	23	32	31	25	29	28	34	13	27	13	9.2
23	23	100	99	29	24	68	38	28	13	27	14	8.8
24	24	208	81	e28	33	69	27	23	12	18	15	8.0
25	23	180	52	e27	29	44	25	22	12	16	13	7.8
26	22	80	43	27	26	37	25	21	12	14	12	8.9
27	22	56	39	26	26	36	26	19	22	14	11	9.8
28	25	70	36	24	91	452	24	19	112	19	12	8.5
29	25	50	36	26	---	136	32	18	30	61	11	8.0
30	24	43	35	40	---	66	30	18	30	33	12	7.5
31	23	---	34	40	---	48	---	18	---	25	12	---
TOTAL	973	1,538	1,879	1,679	934	1,773	971	917	722	2,276	536	251.4
MEAN	31.4	51.3	60.6	54.2	33.4	57.2	32.4	29.6	24.1	73.4	17.3	8.38
MAX	100	208	323	585	91	452	64	122	112	1,050	79	12
MIN	21	22	32	24	24	27	24	18	12	14	11	6.8
CFSM	0.73	1.20	1.42	1.27	0.78	1.34	0.76	0.69	0.56	1.72	0.40	0.20
IN.	0.85	1.34	1.63	1.46	0.81	1.54	0.84	0.80	0.63	1.98	0.47	0.22

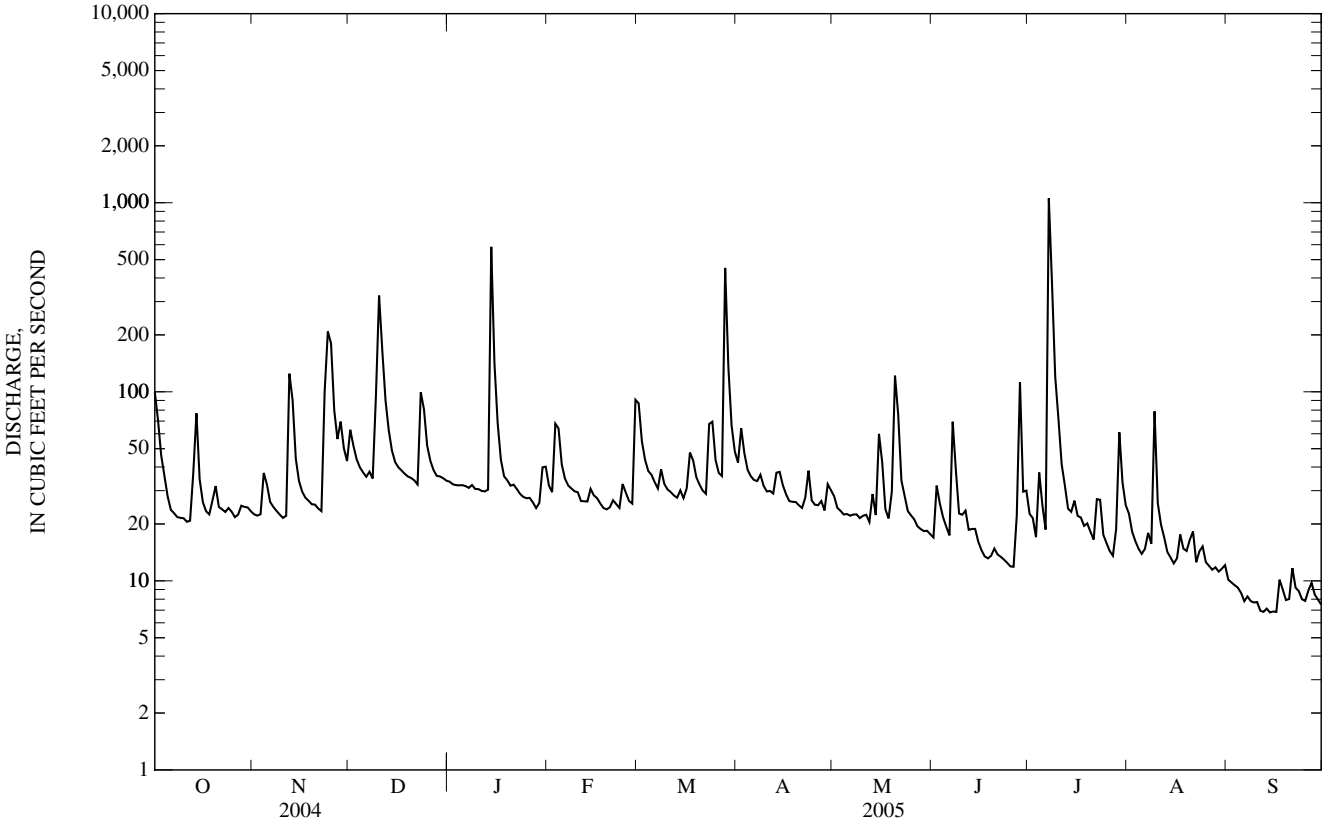
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)

MEAN	35.2	32.8	46.6	58.0	63.9	81.1	60.4	44.4	38.5	32.4	30.3	32.0
MAX	171	102	113	136	163	250	217	154	155	128	120	172
(WY)	(1991)	(1993)	(1974)	(1978)	(1990)	(1975)	(1987)	(1984)	(1962)	(1978)	(1970)	(1979)
MIN	7.47	9.14	15.1	17.2	24.9	20.1	18.0	13.1	7.15	4.27	3.51	5.08
(WY)	(1987)	(2002)	(2001)	(1981)	(2001)	(1967)	(1967)	(2002)	(1986)	(1986)	(2002)	(1968)

02114450 LITTLE YADKIN RIVER AT DALTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005	
ANNUAL TOTAL	17,410		14,449.4			
ANNUAL MEAN	47.6		39.6		46.1	
HIGHEST ANNUAL MEAN					84.9	2003
LOWEST ANNUAL MEAN					19.9	2002
HIGHEST DAILY MEAN	2,470	Sep 28	1,050	Jul 7	3,350	Jun 21, 1972
LOWEST DAILY MEAN	10	Sep 6	6.8	Sep 14	1.4	Aug 21, 2002
ANNUAL SEVEN-DAY MINIMUM	12	Aug 31	7.0	Sep 10	1.6	Aug 19, 2002
MAXIMUM PEAK FLOW			4,530	Jul 7	9,400*	Sep 22, 1979
MAXIMUM PEAK STAGE			11.41	Jul 7	20.29	Sep 22, 1979
INSTANTANEOUS LOW FLOW			6.5*	Sep 12	1.2*	Aug 24, 2002
ANNUAL RUNOFF (CFSM)	1.11		0.925		1.08	
ANNUAL RUNOFF (INCHES)	15.13		12.56		14.64	
10 PERCENT EXCEEDS	70		65		73	
50 PERCENT EXCEEDS	31		27		26	
90 PERCENT EXCEEDS	16		12		12	

* See REMARKS.
e Estimated.



02115360 YADKIN RIVER AT ENON, NC

LOCATION.--Lat 36°07'54", long 80°26'38", Forsyth County, Hydrologic Unit 03040101, on left bank 70 ft upstream from bridge on Secondary Road 1525, 1.5 mi east of Enon, 4 mi upstream from Forbush Creek, and 324 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--1,694 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1964 to current year.

REVISED RECORDS.--WDR NC-72-1: 1970 (M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 701.71 ft above NGVD of 1929. Prior to Nov. 6, 1968, nonrecording gage on downstream side of bridge at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some regulation by W. Kerr Scott Reservoir (station 02111391). Minimum discharge for current water year also occurred Sept. 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 15, 1940, reached a stage of 737.5 ft (35.8 ft above gage datum), from information by U.S. Army Corps of Engineers.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,830	2,090	2,690	2,320	2,600	3,890	4,660	2,540	1,670	2,190	3,370	1,870
2	3,520	2,040	3,090	2,220	2,530	3,280	4,100	2,400	2,010	2,080	2,190	1,570
3	3,080	1,980	2,600	2,260	2,440	2,970	4,790	2,300	3,060	2,190	2,010	1,300
4	2,790	2,080	2,330	2,260	3,140	2,580	4,120	2,250	2,660	2,230	1,810	1,180
5	2,470	2,710	2,270	2,190	2,720	2,490	3,560	2,170	2,420	2,470	1,690	1,140
6	2,340	2,700	2,220	2,150	2,540	2,570	3,270	2,140	2,070	2,930	1,660	1,190
7	2,240	2,590	2,270	2,120	2,400	2,540	3,130	2,120	1,850	5,480	1,930	1,170
8	2,190	2,190	2,260	2,070	2,290	2,600	3,140	2,130	2,480	14,000	1,860	1,130
9	2,110	1,920	2,420	2,080	2,340	2,710	3,110	2,090	3,020	4,510	2,870	1,100
10	2,060	1,930	6,940	2,030	2,370	2,470	2,980	1,970	3,320	3,820	2,900	1,050
11	2,010	1,930	5,390	2,010	2,230	2,330	2,770	2,000	3,250	3,480	2,140	1,130
12	1,940	2,980	4,110	1,960	2,170	2,230	2,580	2,180	2,510	3,480	1,890	1,130
13	2,870	4,970	3,230	1,960	2,180	2,170	2,980	2,100	2,370	3,880	1,680	1,120
14	6,000	3,070	2,880	16,600	2,270	2,230	5,430	2,020	2,530	3,380	1,590	1,110
15	2,990	2,750	2,500	7,410	2,310	2,230	4,020	2,120	3,000	2,920	1,640	1,100
16	2,510	2,500	2,320	4,960	2,230	2,230	3,420	2,520	3,080	2,900	1,870	1,100
17	2,270	2,260	2,290	3,840	2,200	2,540	3,020	2,240	2,390	3,430	2,010	1,170
18	1,990	2,150	2,200	3,140	2,120	2,650	2,840	2,020	1,810	3,260	1,940	1,200
19	1,880	1,990	2,180	2,820	2,020	2,410	2,850	2,000	1,770	3,540	2,640	1,090
20	2,130	1,950	2,190	2,680	2,020	2,250	2,670	3,000	2,070	3,390	2,630	1,000
21	2,100	1,970	2,120	2,660	2,080	2,220	2,500	2,960	1,940	3,120	2,610	1,080
22	2,080	1,950	2,050	2,580	2,090	e2,170	2,640	2,340	1,980	3,100	2,000	1,050
23	1,990	2,110	3,130	2,560	2,030	3,200	3,520	2,050	1,890	2,690	1,640	1,020
24	2,080	3,030	8,250	2,310	2,110	6,340	2,920	1,910	1,790	2,230	1,650	981
25	2,180	7,360	4,680	2,330	2,380	3,730	2,600	1,910	1,660	1,930	1,630	958
26	2,050	4,050	4,080	2,220	2,250	3,100	2,460	1,840	1,610	1,790	1,610	1,010
27	1,990	3,510	3,560	2,220	2,170	2,750	2,460	1,750	1,680	1,820	1,530	1,120
28	2,080	3,640	2,850	2,180	2,700	12,500	2,410	1,720	2,100	1,820	1,520	1,130
29	2,160	3,190	2,510	2,140	---	10,100	2,420	1,720	1,830	2,540	1,510	1,060
30	2,280	2,550	2,510	2,330	---	6,050	2,680	1,720	2,380	2,390	1,490	1,040
31	2,180	---	2,470	2,630	---	5,250	---	1,690	---	2,950	1,760	---
TOTAL	77,390	82,140	96,590	95,240	64,930	108,780	96,050	65,920	68,200	101,940	61,270	34,299
MEAN	2,496	2,738	3,116	3,072	2,319	3,509	3,202	2,126	2,273	3,288	1,976	1,143
MAX	6,000	7,360	8,250	16,600	3,140	12,500	5,430	3,000	3,320	14,000	3,370	1,870
MIN	1,880	1,920	2,050	1,960	2,020	2,170	2,410	1,690	1,610	1,790	1,490	958

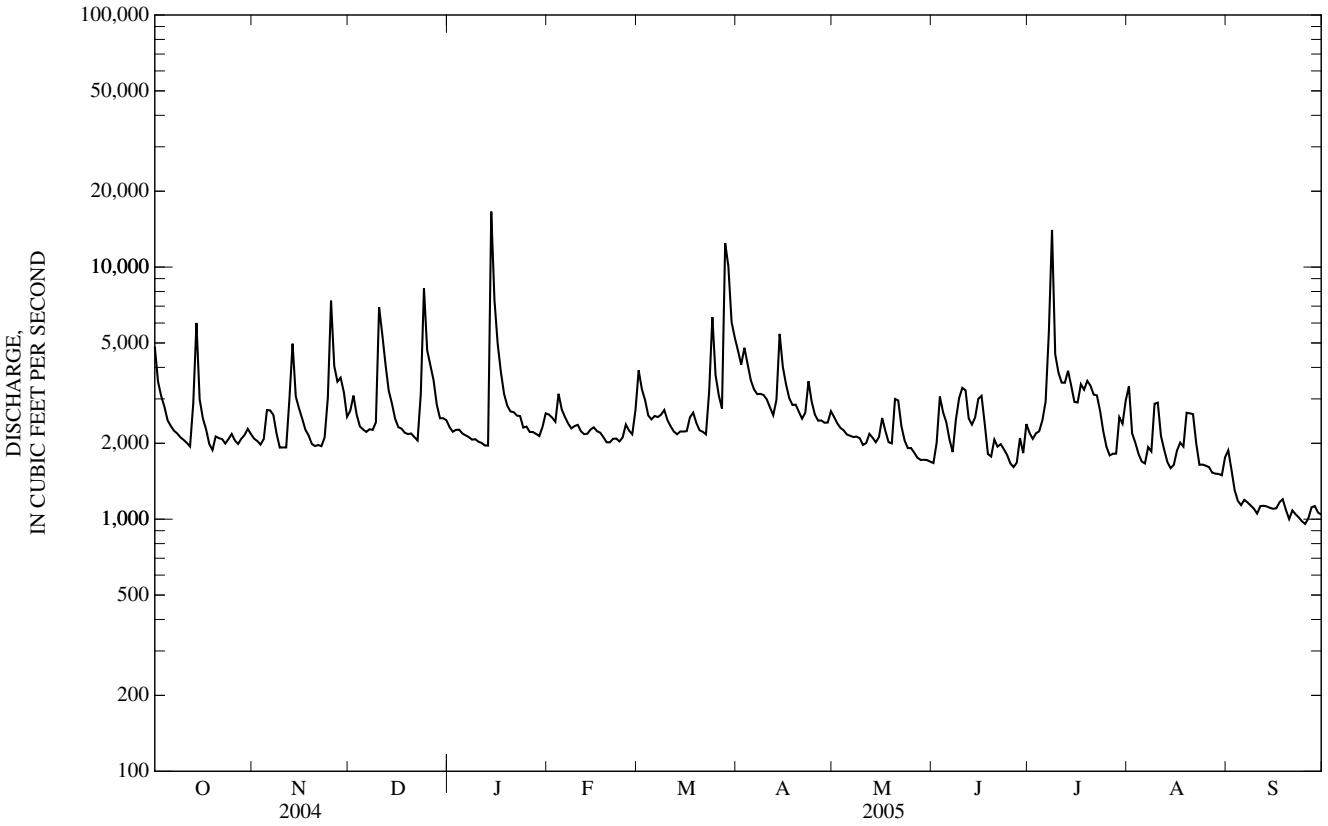
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)

MEAN	1,966	2,030	2,293	2,715	2,893	3,465	3,306	2,717	2,454	1,963	1,978	1,830
MAX	5,371	5,128	4,814	5,725	5,645	7,862	7,337	4,989	5,435	4,419	5,611	5,810
(WY)	(1991)	(1978)	(1974)	(1978)	(1990)	(1993)	(1980)	(1973)	(1972)	(2003)	(1970)	(1979)
MIN	635	620	841	1,051	1,023	1,443	1,350	925	540	654	405	815
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(1988)

02115360 YADKIN RIVER AT ENON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005	
ANNUAL TOTAL	953,050		952,749			
ANNUAL MEAN	2,604		2,610		2,463	
HIGHEST ANNUAL MEAN					3,605	1973
LOWEST ANNUAL MEAN					952	2002
HIGHEST DAILY MEAN	24,600	Sep 28	16,600	Jan 14	48,400	Sep 22, 1979
LOWEST DAILY MEAN	1,160	Aug 9	958	Sep 25	264	Sep 14, 2002
ANNUAL SEVEN-DAY MINIMUM	1,230	Aug 5	1,010	Sep 20	303	Aug 9, 2002
MAXIMUM PEAK FLOW			28,900	Jan 14	73,300	Jun 21, 1972
MAXIMUM PEAK STAGE			20.95	Jan 14	29.52	Sep 22, 1979
INSTANTANEOUS LOW FLOW			951*	Sep 25	247	Sep 14, 2002
10 PERCENT EXCEEDS	3,720		3,550		4,140	
50 PERCENT EXCEEDS	2,150		2,260		1,900	
90 PERCENT EXCEEDS	1,480		1,620		990	

* See REMARKS.
e Estimated.



02115360 YADKIN RIVER AT ENON, NC—Continued

PRECIPITATION RECORDS

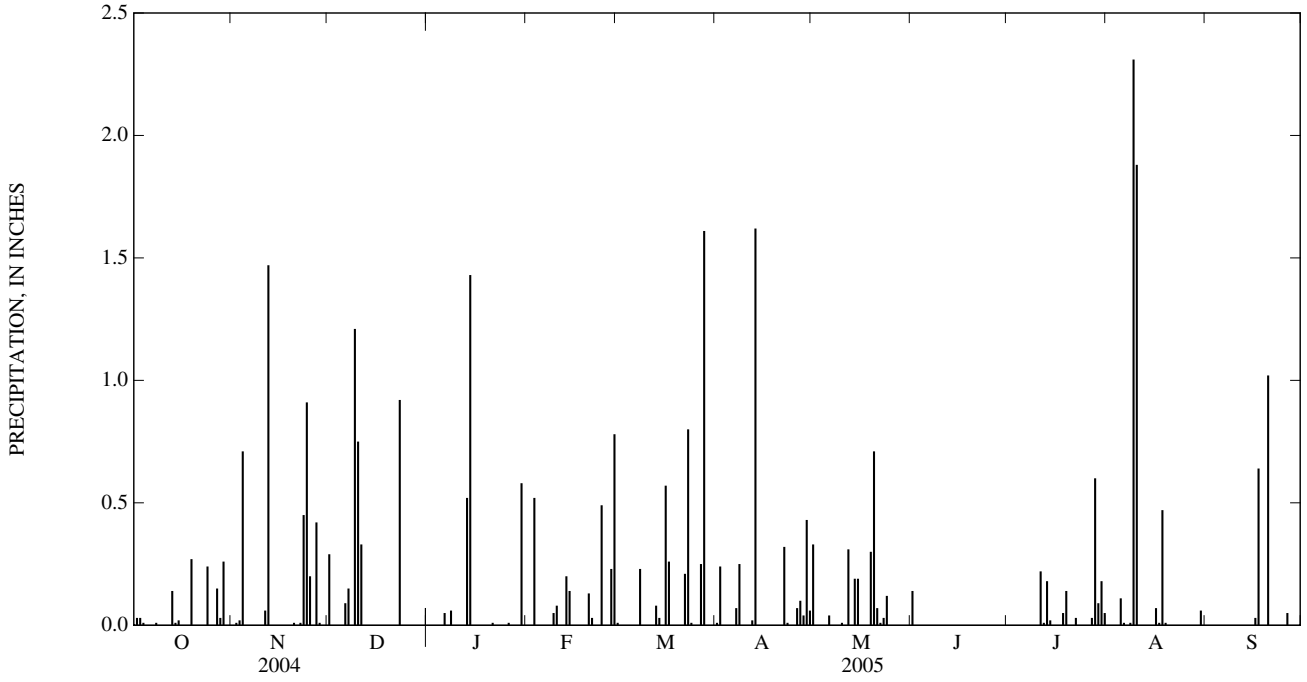
PERIOD OF RECORD.--October 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.29	0.00	0.00	0.01	0.01	0.33	0.14	---	0.00	0.00
2	0.03	0.01	0.00	0.00	0.00	0.00	0.24	0.00	---	---	0.00	0.00
3	0.03	0.02	0.00	0.00	0.52	0.00	0.00	0.00	---	---	0.00	0.00
4	0.01	0.71	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.11	0.00
6	0.00	0.00	0.09	0.05	0.00	0.00	0.00	0.04	---	---	0.01	0.00
7	0.00	0.00	0.15	0.00	0.00	0.00	0.07	0.00	---	---	0.00	0.00
8	0.01	0.00	0.00	0.06	0.00	0.23	0.25	0.00	---	---	0.01	0.00
9	0.00	0.00	1.21	0.00	0.05	0.00	0.00	0.00	---	0.00	2.31	0.00
10	0.00	0.00	0.75	0.00	0.08	0.00	0.00	0.01	---	0.00	1.88	0.00
11	0.00	0.06	0.33	0.00	0.00	0.00	0.00	0.00	---	0.22	0.00	0.00
12	0.00	1.47	0.00	0.00	0.00	0.00	0.02	0.31	---	0.01	0.00	0.00
13	0.14	0.00	0.00	0.52	0.20	0.08	1.62	0.00	---	0.18	0.00	0.00
14	0.01	0.00	0.00	1.43	0.14	0.03	0.00	0.19	---	0.02	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.19	---	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00	---	0.00	0.07	0.03
17	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	---	0.00	0.01	0.64
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.05	0.47	0.00
19	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.30	---	0.14	0.01	0.00
20	0.00	0.01	0.00	0.00	0.13	0.00	0.00	0.71	---	0.00	0.00	1.02
21	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.07	---	0.00	0.00	0.00
22	0.00	0.01	0.00	0.00	0.00	0.21	0.32	0.01	---	0.03	0.00	0.00
23	0.00	0.45	0.92	0.00	0.00	0.80	0.01	0.03	---	0.00	0.00	0.00
24	0.24	0.91	0.00	0.00	0.49	0.01	0.00	0.12	---	0.00	0.00	0.00
25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.07	0.00	---	0.00	0.00	0.05
27	0.15	0.42	0.00	0.00	0.23	0.25	0.10	0.00	---	0.03	0.00	0.00
28	0.03	0.01	0.00	0.00	0.78	1.61	0.04	0.00	---	0.60	0.00	0.00
29	0.26	0.00	0.00	0.00	---	0.00	0.43	0.00	---	0.09	0.00	0.00
30	0.00	0.00	0.00	0.58	---	0.00	0.06	0.00	---	0.18	0.06	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.05	0.00	---
TOTAL	1.20	4.28	3.74	2.66	2.65	4.06	3.24	2.31	---	---	4.94	1.74



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC

LOCATION.--Lat 35°51'24", long 80°23'13", North American Datum of 1983, Davie County, Hydrologic Unit 03040101, on right bank on downstream side of bridge on U.S. Highway 64, 1.5 mi south of Yadkin College, 6.2 mi downstream of Reedy Creek, and 295 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--2,280 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1928 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.45 ft above NGVD of 1929. Prior to July 26, 1957, at site on left bank 100 ft downstream at same datum. July 27, 1957, to Sept. 19, 1984, at site 20 ft downstream on bridge pier near left bank, at same datum. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation and occasional regulation during low flow caused by small hydroelectric plant 10 mi upstream with little storage capacity. Since August 1962, some regulation by W. Kerr Scott Reservoir (station 02111391). Prior to regulation, maximum discharge: 80,200 ft^3/s, Aug. 15, 1940; gage height: 33.75 ft; minimum observed discharge: 177 ft^3/s, Oct. 12, 1954; gage height: -0.42 ft. Minimum discharge for period of record, result of regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916, reached a stage of 36.3 ft, from floodmarks; discharge, 94,300 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,580	2,250	2,820	2,720	2,970	4,950	5,270	3,320	2,000	2,420	4,100	2,010
2	3,990	2,200	3,430	2,590	2,980	3,920	4,410	2,900	2,270	2,350	2,590	1,750
3	3,650	2,180	3,070	2,580	2,950	3,470	5,100	2,680	3,170	2,240	2,250	1,460
4	3,100	2,570	2,710	2,610	3,700	3,100	4,570	2,600	3,080	2,500	2,050	1,370
5	2,790	2,810	2,600	2,560	3,300	2,840	3,940	2,540	2,740	2,750	1,920	1,280
6	2,540	2,800	2,550	2,500	3,010	2,860	3,570	2,530	2,490	3,270	1,970	1,300
7	2,450	2,800	2,600	2,500	2,860	2,860	3,480	2,490	2,320	2,800	1,990	1,320
8	2,380	2,470	2,610	2,440	2,710	2,970	3,440	2,450	2,660	19,100	2,060	1,270
9	2,310	2,180	3,030	2,440	2,680	3,060	3,470	2,440	3,000	8,030	5,350	1,250
10	2,270	2,110	11,200	2,400	2,770	2,880	3,310	2,380	3,590	4,470	5,460	1,200
11	2,200	2,100	8,380	2,380	2,640	2,720	3,210	2,290	3,650	3,800	2,890	1,210
12	2,160	2,810	5,710	2,330	2,550	2,620	2,920	2,420	2,940	3,640	2,290	1,250
13	2,270	6,450	4,020	2,340	2,520	2,540	3,070	2,570	2,610	3,640	2,040	1,250
14	5,690	3,880	3,410	10,100	2,620	2,560	6,300	2,390	2,830	4,040	1,890	1,230
15	3,700	3,130	3,080	16,000	2,720	2,600	5,040	2,410	2,860	3,720	1,810	1,220
16	2,680	2,930	2,760	6,130	2,620	2,600	3,910	2,640	3,200	3,020	1,900	1,220
17	2,470	2,590	2,680	4,520	2,570	3,050	3,540	2,680	2,800	3,370	2,060	1,280
18	2,270	2,540	2,640	3,650	2,500	3,240	3,130	2,360	2,150	3,370	2,400	1,380
19	2,060	2,390	2,540	3,230	2,400	2,940	3,220	2,280	2,020	3,400	2,490	1,270
20	2,210	2,260	2,550	3,030	2,360	2,720	3,060	2,930	2,200	3,690	2,740	1,170
21	2,250	2,300	2,510	2,990	2,430	2,630	2,900	3,370	2,210	3,330	2,640	1,280
22	2,250	2,270	2,450	2,950	2,470	2,600	2,850	2,840	2,120	3,130	2,420	1,270
23	2,160	2,310	2,680	2,900	2,400	3,110	3,470	2,490	2,120	2,920	1,840	1,180
24	2,200	2,870	8,350	2,740	2,550	7,420	3,490	2,290	1,990	2,540	1,770	1,150
25	2,320	7,550	5,410	2,660	2,760	4,680	2,990	2,260	1,930	2,140	1,770	1,100
26	2,240	5,450	4,410	2,630	2,670	3,770	2,830	2,190	1,800	1,980	1,750	1,110
27	2,160	3,750	3,990	2,580	2,550	3,260	2,760	2,130	1,790	1,950	1,710	1,220
28	2,190	4,100	3,350	2,530	3,510	8,940	2,770	2,050	2,240	2,010	1,650	1,270
29	2,320	3,740	2,870	2,520	---	19,200	2,760	2,040	2,260	2,830	1,640	1,220
30	2,350	3,140	2,860	2,710	---	7,770	2,970	2,050	2,280	2,760	1,640	1,160
31	2,370	---	2,810	3,100	---	6,030	---	2,020	---	3,110	1,710	---
TOTAL	84,580	92,930	116,080	109,360	76,770	129,910	107,750	77,030	75,320	114,320	72,790	38,650
MEAN	2,728	3,098	3,745	3,528	2,742	4,191	3,592	2,485	2,511	3,688	2,348	1,288
MAX	6,580	7,550	11,200	16,000	3,700	19,200	6,300	3,370	3,650	19,100	5,460	2,010
MIN	2,060	2,100	2,450	2,330	2,360	2,540	2,760	2,020	1,790	1,950	1,640	1,100

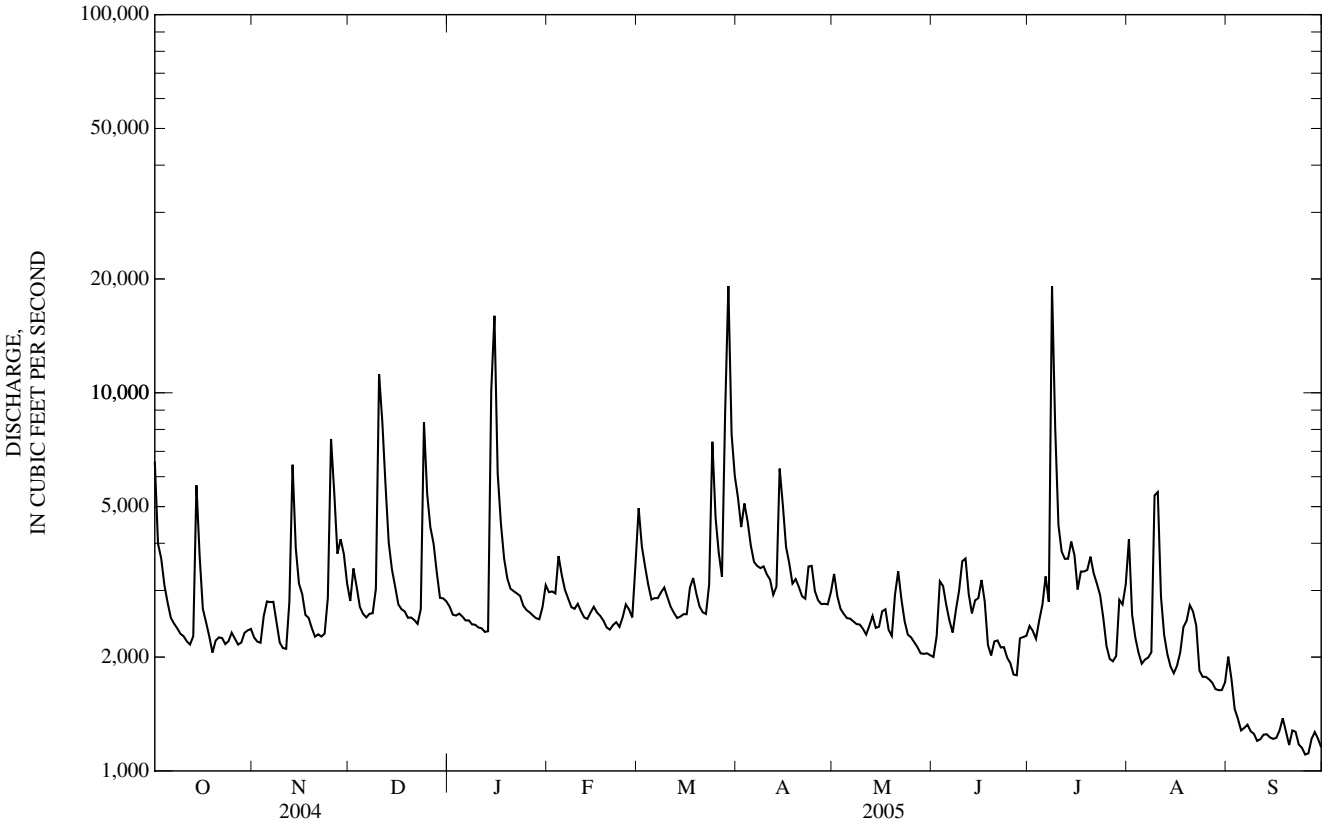
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2005,* BY WATER YEAR (WY)

MEAN	2,414	2,478	2,888	3,453	3,691	4,499	4,034	3,303	2,923	2,353	2,316	2,169
MAX	7,491	5,844	5,784	7,580	7,632	10,380	9,419	6,277	7,755	5,158	7,191	7,314
(WY)	(1991)	(1993)	(1974)	(1978)	(1990)	(1975)	(1987)	(1984)	(1972)	(2003)	(1970)	(1979)
MIN	747	792	1,160	1,354	1,444	1,798	1,519	1,053	581	749	445	867
(WY)	(2002)	(2002)	(2001)	(1981)	(2001)	(1981)	(2002)	(2002)	(2002)	(1986)	(2002)	(2001)

02116500 YADKIN RIVER AT YADKIN COLLEGE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1963 - 2005*	
ANNUAL TOTAL	1,108,500		1,095,490			
ANNUAL MEAN	3,029		3,001		3,019	
HIGHEST ANNUAL MEAN					4,524	1973
LOWEST ANNUAL MEAN					1,116	2002
HIGHEST DAILY MEAN	31,600	Sep 29	19,200	Mar 29	66,000	Jun 22, 1972
LOWEST DAILY MEAN	1,240	Aug 11	1,100	Sep 25	236	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	1,360	Aug 5	1,180	Sep 24	261	Aug 9, 2002
MAXIMUM PEAK FLOW			23,100	Mar 29	75,200*	Jun 22, 1972
MAXIMUM PEAK STAGE			17.10	Mar 29	32.81*	Jun 22, 1972
INSTANTANEOUS LOW FLOW			1,060	Sep 25	110*	Aug 28, 1988
10 PERCENT EXCEEDS	4,200		4,030		5,180	
50 PERCENT EXCEEDS	2,440		2,620		2,270	
90 PERCENT EXCEEDS	1,700		1,770		1,200	

* Regulated period only (1963-2005). See REMARKS.



02116500 YADKIN RIVER AT YADKIN COLLEGE, NC—Continued

PRECIPITATION RECORDS

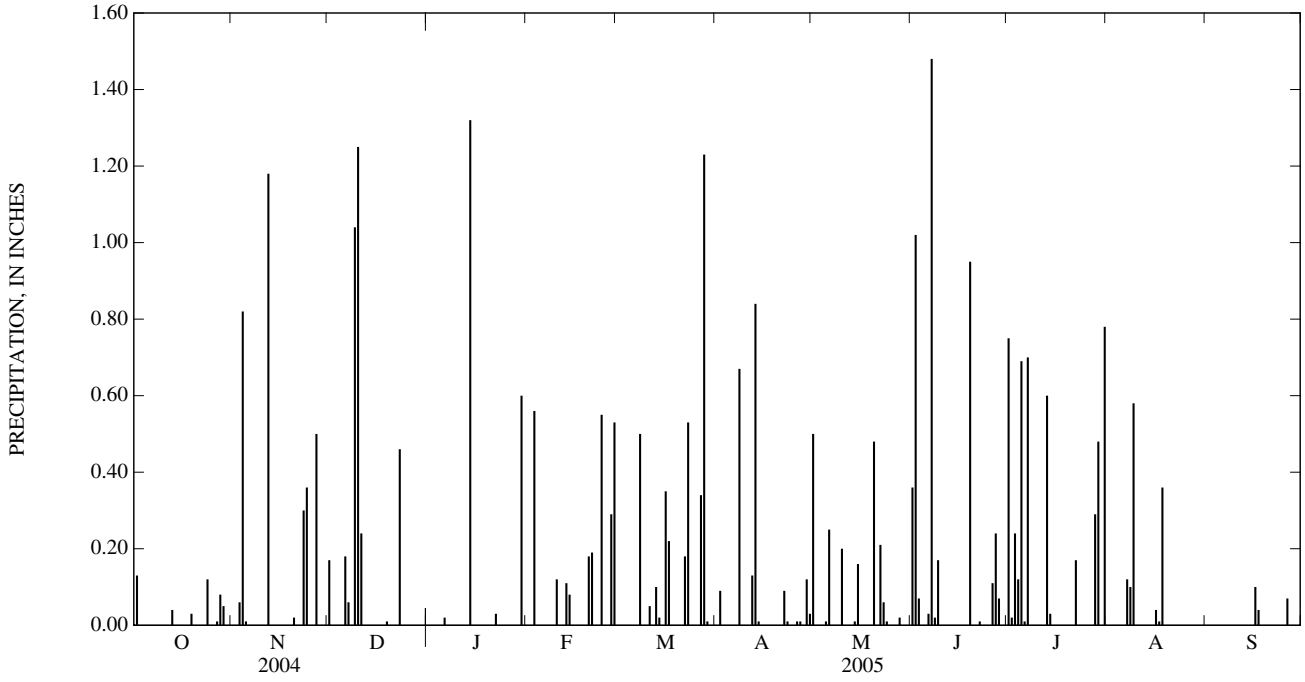
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.50	0.36	0.75	0.00	0.00
2	0.13	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.02	0.02	0.00	0.00
3	0.00	0.06	0.00	0.00	0.56	0.00	0.00	0.00	0.07	0.24	0.00	0.00
4	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.69	0.00	0.00
6	0.00	0.00	0.18	0.02	0.00	0.00	0.00	0.25	0.03	0.01	0.00	0.00
7	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	1.48	0.70	0.12	0.00
8	0.00	0.00	0.00	0.00	0.00	0.50	0.67	0.00	0.02	0.00	0.10	0.00
9	0.00	0.00	1.04	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.58	0.00
10	0.00	0.00	1.25	0.00	0.12	0.00	0.00	0.20	0.00	0.00	0.00	0.00
11	0.00	0.00	0.24	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	1.18	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00
13	0.04	0.00	0.00	0.00	0.11	0.10	0.84	0.00	0.00	0.60	0.00	0.00
14	0.00	0.00	0.00	1.32	0.08	0.02	0.01	0.01	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.04	0.10
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.01	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00
19	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.95	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.18	0.00	0.00	0.48	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.03	0.00	0.18	0.09	0.21	0.01	0.17	0.00	0.00
23	0.00	0.30	0.46	0.00	0.00	0.53	0.01	0.06	0.00	0.00	0.00	0.00
24	0.12	0.36	0.00	0.00	0.55	0.00	0.00	0.01	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.11	0.00	0.00	0.07
27	0.01	0.50	0.00	0.00	0.29	0.34	0.01	0.00	0.24	0.00	0.00	0.00
28	0.08	0.00	0.00	0.00	0.53	1.23	0.00	0.02	0.07	0.29	0.00	0.00
29	0.05	0.00	0.00	0.00	---	0.01	0.12	0.00	0.00	0.48	0.00	0.00
30	0.00	0.00	0.00	0.60	---	0.00	0.03	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.78	0.00	---
TOTAL	0.46	3.25	3.41	1.97	2.61	3.53	2.01	1.91	4.53	4.88	1.21	0.21



02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC

LOCATION.--Lat 35°50'42", long 80°39'32", Rowan County, Hydrologic Unit 03040102, on right bank 90 ft downstream of bridge on Secondary Road 1972, 1 mi upstream from Little Creek, 4 mi downstream of Fifth Creek, 4.5 mi upstream from Hunting Creek, and 6.5 mi southwest of Mocksville.

DRAINAGE AREA.--306 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1938 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 663.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. The City of Statesville diverted an average of 4.7 ft^3/s for water supply and waste treatment dilution. The Energy United Water Corporation withdrew an average of 1.1 ft^3/s for water supply. Minimum discharge for period of record also occurred Aug. 15, 2002. Minimum discharge for current water year also occurred Sept. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Oct. 3, 1929, reached a stage of 22.6 ft, from floodmark established by local resident (discharge, about 22,000 ft^3/s).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	471	152	269	251	297	1,010	519	302	170	159	398	139
2	351	140	307	238	265	578	469	256	235	148	259	125
3	319	142	276	229	298	432	486	232	308	235	201	115
4	276	294	251	227	330	366	400	235	263	156	173	110
5	229	373	234	224	285	337	369	229	230	147	157	105
6	200	268	232	221	261	316	344	229	205	186	145	101
7	183	210	239	221	257	299	340	225	178	284	143	97
8	172	183	238	215	256	347	348	216	168	2,440	189	96
9	174	168	328	222	244	321	375	208	196	1,210	1,280	95
10	170	168	2,480	213	240	284	344	210	243	371	1,060	93
11	163	159	1,360	210	232	279	306	729	266	277	359	90
12	149	457	807	197	229	272	293	331	245	269	246	87
13	147	809	555	196	227	265	330	278	214	237	203	86
14	229	480	415	1,380	231	258	742	247	199	272	181	86
15	194	325	346	1,150	232	248	595	245	191	245	167	85
16	157	265	305	576	224	253	432	255	170	218	154	84
17	140	235	284	428	217	351	363	245	149	204	187	86
18	141	217	268	354	206	367	334	227	142	204	239	97
19	146	202	257	304	199	314	315	208	142	196	372	89
20	152	193	238	289	200	281	308	227	159	206	266	83
21	153	195	220	281	232	266	294	331	172	178	204	83
22	139	190	236	269	257	255	278	261	159	163	177	82
23	134	204	323	267	235	346	310	236	149	161	162	80
24	137	376	782	e255	276	522	309	220	131	178	159	80
25	151	946	521	246	302	421	275	199	122	147	155	77
26	153	611	390	243	260	354	266	190	120	139	147	77
27	149	407	334	235	236	324	256	194	122	131	142	84
28	157	403	286	219	663	1,780	257	190	133	172	140	88
29	162	345	268	e215	---	2,670	247	188	148	258	136	85
30	170	281	259	e280	---	1,010	278	178	153	304	132	82
31	166	---	258	332	---	650	---	173	---	409	132	---
TOTAL	5,834	9,398	13,566	10,187	7,391	15,776	10,782	7,694	5,482	9,904	8,065	2,767
MEAN	188	313	438	329	264	509	359	248	183	319	260	92.2
MAX	471	946	2,480	1,380	663	2,670	742	729	308	2,440	1,280	139
MIN	134	140	220	196	199	248	247	173	120	131	132	77
CFSM	0.62	1.02	1.43	1.07	0.86	1.66	1.17	0.81	0.60	1.04	0.85	0.30
IN.	0.71	1.14	1.65	1.24	0.90	1.92	1.31	0.94	0.67	1.20	0.98	0.34

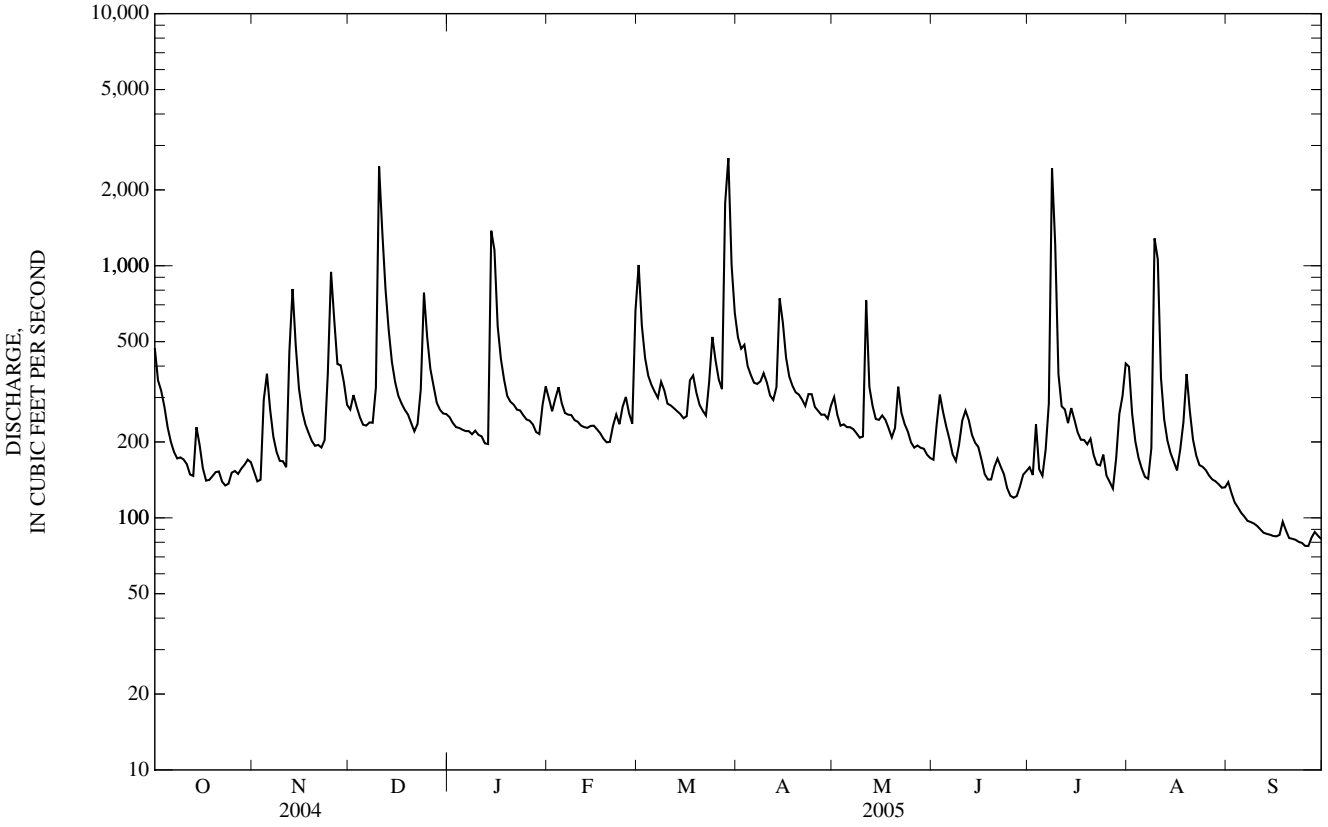
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2005, BY WATER YEAR (WY)

MEAN	245	258	336	412	486	542	469	357	295	230	223	230
MAX	1,246	791	738	1,088	1,458	1,485	1,110	885	889	628	706	880
(WY)	(1965)	(1958)	(1962)	(1978)	(1960)	(1975)	(1958)	(1984)	(2003)	(1941)	(1970)	(1979)
MIN	41.0	63.2	102	97.7	141	167	114	91.4	37.6	24.6	14.8	34.5
(WY)	(2002)	(2002)	(1956)	(1956)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1939 - 2005	
ANNUAL TOTAL	108,951		106,846			
ANNUAL MEAN	298		293		339	
HIGHEST ANNUAL MEAN					592	1960
LOWEST ANNUAL MEAN					87.0	2002
HIGHEST DAILY MEAN	4,920	Sep 29	2,670	Mar 29	11,800	Mar 21, 2003
LOWEST DAILY MEAN	70	Sep 6	77	Sep 25	3.0	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	83	Aug 5	80	Sep 20	3.3	Aug 9, 2002
MAXIMUM PEAK FLOW			2,900	Mar 29	14,900	Mar 21, 2003
MAXIMUM PEAK STAGE			10.03	Mar 29	20.28	Mar 21, 2003
INSTANTANEOUS LOW FLOW			76*	Sep 24	2.8*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.973		0.957		1.11	
ANNUAL RUNOFF (INCHES)	13.25		12.99		15.04	
10 PERCENT EXCEEDS	430		424		581	
50 PERCENT EXCEEDS	220		235		235	
90 PERCENT EXCEEDS	109		133		112	

* See REMARKS.
e Estimated.



02118000 SOUTH YADKIN RIVER NEAR MOCKSVILLE, NC—Continued

PRECIPITATION RECORDS

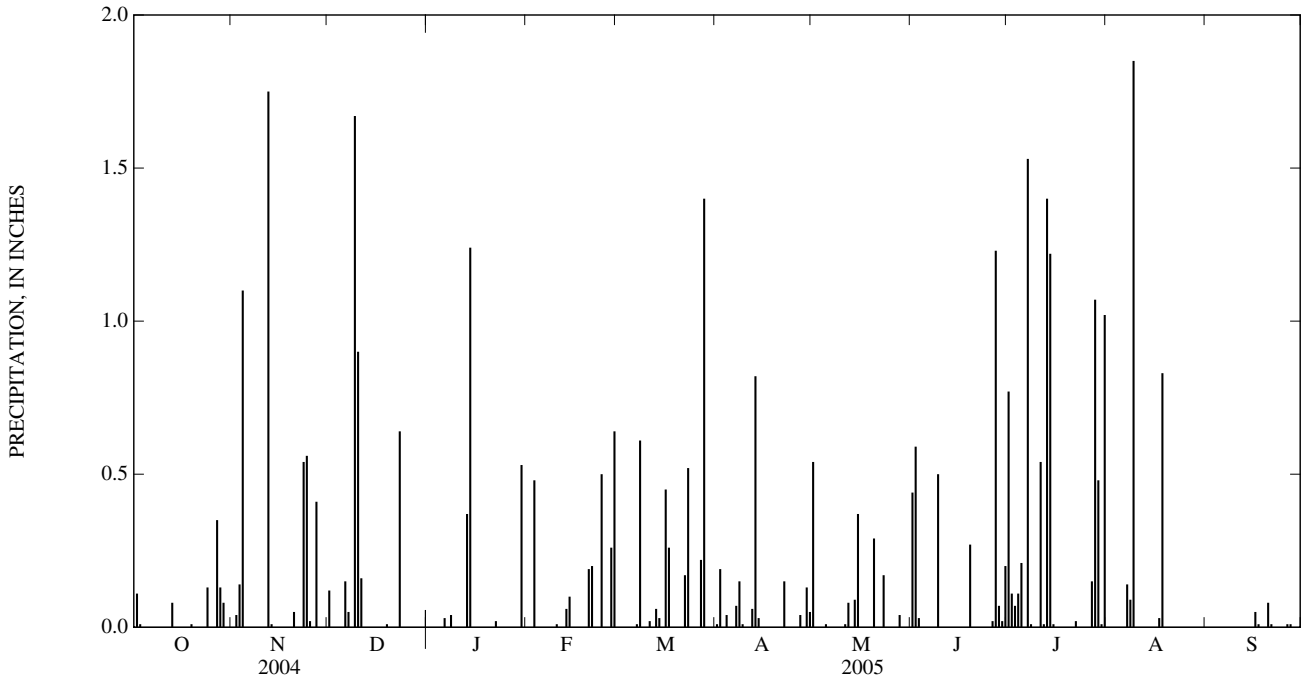
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.12	0.00	0.00	0.00	0.01	0.54	0.44	0.77	0.00	---
2	0.11	0.04	0.00	0.00	0.00	0.00	0.19	0.00	0.59	0.11	0.00	0.00
3	0.01	0.14	0.00	0.00	0.48	0.00	0.00	0.00	0.03	0.07	0.00	0.00
4	0.00	1.10	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.11	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.21	0.00	0.00
6	0.00	0.00	0.15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.05	0.00	0.00	0.01	0.07	---	0.00	1.53	0.14	0.00
8	0.00	0.00	0.00	0.04	0.00	0.61	0.15	---	0.00	0.01	0.09	0.00
9	0.00	0.00	1.67	0.00	0.00	0.00	0.01	---	0.50	0.00	1.85	0.00
10	0.00	0.00	0.90	0.00	0.01	0.00	0.00	---	0.00	0.00	0.00	0.00
11	0.00	0.00	0.16	0.00	0.00	0.02	0.00	0.01	0.00	0.54	---	0.00
12	0.00	1.75	0.00	0.00	0.00	0.00	0.06	0.08	0.00	0.01	---	0.00
13	0.08	0.01	0.00	0.37	0.06	0.06	0.82	0.00	0.00	1.40	---	0.00
14	0.00	0.00	0.00	1.24	0.10	0.03	0.03	0.09	0.00	1.22	---	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.01	---	0.00
16	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	---	0.05
17	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.03	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.83	---
19	0.01	0.00	0.01	0.00	0.00	0.00	0.00	---	0.27	0.00	0.00	---
20	0.00	0.05	0.00	0.00	0.19	0.00	0.00	0.29	0.00	---	0.00	0.08
21	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	---	---	0.01
22	0.00	0.00	0.00	0.02	0.00	0.17	0.15	0.00	0.00	0.02	---	0.00
23	0.00	0.54	0.64	0.00	0.00	0.52	0.00	0.17	0.00	0.00	---	0.00
24	0.13	0.56	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	---	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	---	0.01
27	0.35	0.41	0.00	0.00	0.26	0.22	0.04	0.00	1.23	0.15	---	0.01
28	0.13	0.00	0.00	0.00	0.64	1.40	0.00	0.04	0.07	1.07	---	0.00
29	0.08	0.00	0.00	0.00	---	0.00	0.13	---	0.02	0.48	---	0.00
30	0.00	0.00	0.00	0.53	---	0.00	0.05	---	0.20	0.01	---	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	1.02	---	---
TOTAL	0.90	4.62	3.70	2.23	2.44	3.75	1.75	---	3.37	---	---	---



02118500 HUNTING CREEK NEAR HARMONY, NC

LOCATION.--Lat 36°00'02", long 80°44'44", Iredell County, Hydrologic Unit 03040102, on right bank 52 ft downstream of bridge on Secondary Road 2115, 0.8 mi downstream of Kennedy Creek, 1 mi east of Houstonville, 2 mi downstream of U.S. Highway 21, and 3.5 mi northeast of Harmony.

DRAINAGE AREA.--155 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 734.78 ft above NGVD of 1929. Prior to Apr. 5, 1951, nonrecording gage on upstream side of bridge at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from high-water mark in gage house. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 25.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	266	130	231	184	199	368	285	184	124	328	198	95
2	222	127	219	180	196	269	353	169	223	166	149	88
3	195	130	195	177	217	239	298	164	221	237	131	85
4	177	210	183	175	224	223	253	162	175	186	121	81
5	159	217	173	173	201	221	236	159	150	179	114	79
6	149	167	168	172	187	216	222	164	135	206	111	77
7	144	153	174	169	182	207	217	158	128	1,850	111	76
8	138	144	167	169	e181	221	230	153	130	3,130	153	75
9	135	135	218	164	e172	205	239	148	132	458	606	74
10	133	131	780	161	e167	195	207	146	152	296	322	71
11	127	130	515	160	e160	194	199	164	225	241	169	70
12	125	369	354	158	e156	187	194	152	146	324	136	68
13	304	462	276	158	e154	181	244	167	145	224	122	68
14	304	264	233	1,090	e158	185	430	158	144	220	115	67
15	198	211	211	445	e159	179	303	163	123	196	116	68
16	160	188	199	300	e160	187	248	168	111	178	139	73
17	144	174	193	247	e165	230	224	150	106	179	151	74
18	135	164	187	217	164	219	214	145	103	162	181	72
19	135	158	182	204	163	200	205	142	107	153	185	66
20	137	153	e165	201	161	193	195	263	116	152	139	65
21	133	149	e148	199	181	187	186	207	113	158	128	64
22	130	145	e150	191	171	183	186	160	109	140	113	63
23	129	155	e235	185	160	327	255	151	101	140	107	65
24	137	238	512	178	186	412	195	144	95	127	109	62
25	135	434	305	181	190	285	184	138	93	122	104	61
26	127	263	251	170	171	247	179	134	93	116	101	67
27	127	217	224	162	167	233	188	130	95	111	99	73
28	154	228	207	149	372	1,820	176	127	105	126	97	68
29	149	195	201	151	---	749	190	127	102	228	95	66
30	148	182	195	182	---	425	194	125	142	179	98	64
31	137	---	188	219	---	328	---	122	---	261	107	---
TOTAL	4,993	6,023	7,639	6,871	5,124	9,515	6,929	4,844	3,944	10,773	4,627	2,145
MEAN	161	201	246	222	183	307	231	156	131	348	149	71.5
MAX	304	462	780	1,090	372	1,820	430	263	225	3,130	606	95
MIN	125	127	148	149	154	179	176	122	93	111	95	61
CFSM	1.04	1.30	1.59	1.43	1.18	1.98	1.49	1.01	0.85	2.24	0.96	0.46
IN.	1.20	1.45	1.83	1.65	1.23	2.28	1.66	1.16	0.95	2.59	1.11	0.51

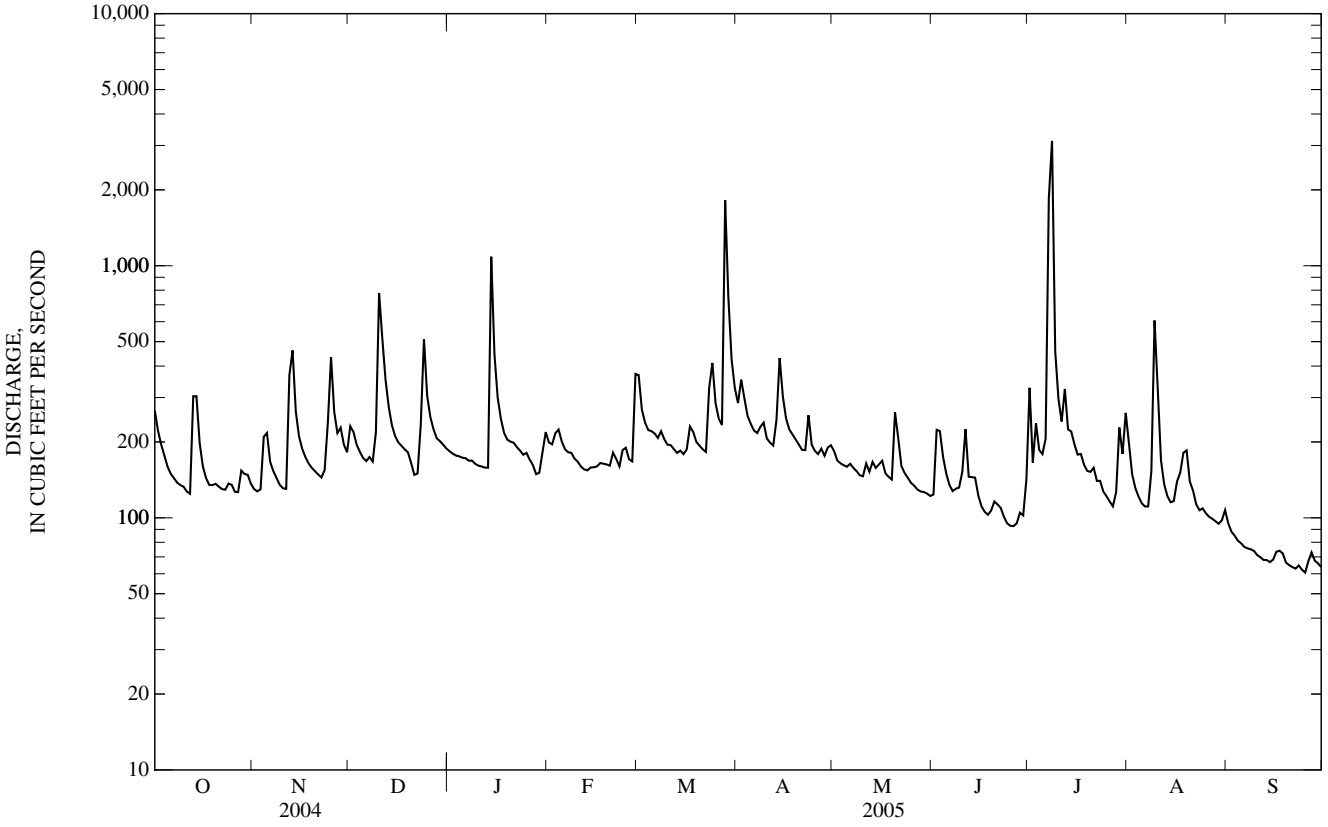
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	148	153	193	226	264	316	295	219	188	145	137	142
MAX	654	508	373	585	752	959	713	527	636	355	383	615
(WY)	(1965)	(1978)	(1974)	(1978)	(1960)	(1975)	(1987)	(1990)	(1972)	(1987)	(1970)	(1979)
MIN	37.3	43.2	53.1	56.4	76.7	121	83.9	62.4	33.0	29.8	14.5	31.4
(WY)	(2002)	(2002)	(1956)	(1956)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02118500 HUNTING CREEK NEAR HARMONY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	70,343		73,427			
ANNUAL MEAN	192		201		203	
HIGHEST ANNUAL MEAN					346	1960
LOWEST ANNUAL MEAN					61.7	2002
HIGHEST DAILY MEAN	4,530	Sep 28	3,130	Jul 8	10,400	Sep 22, 1979
LOWEST DAILY MEAN	54	Sep 6	61	Sep 25	5.4	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	62	Aug 31	64	Sep 19	7.0	Aug 8, 2002
MAXIMUM PEAK FLOW			8,210	Jul 8	14,800	Sep 22, 1979
MAXIMUM PEAK STAGE			19.27	Jul 8	25.05*	Sep 22, 1979
INSTANTANEOUS LOW FLOW			59*	Sep 24	5.0*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	1.24		1.30		1.31	
ANNUAL RUNOFF (INCHES)	16.88		17.62		17.76	
10 PERCENT EXCEEDS	246		272		332	
50 PERCENT EXCEEDS	153		167		142	
90 PERCENT EXCEEDS	82		98		68	

* See REMARKS.
e Estimated.



02118500 HUNTING CREEK NEAR HARMONY, NC—Continued

PRECIPITATION RECORDS

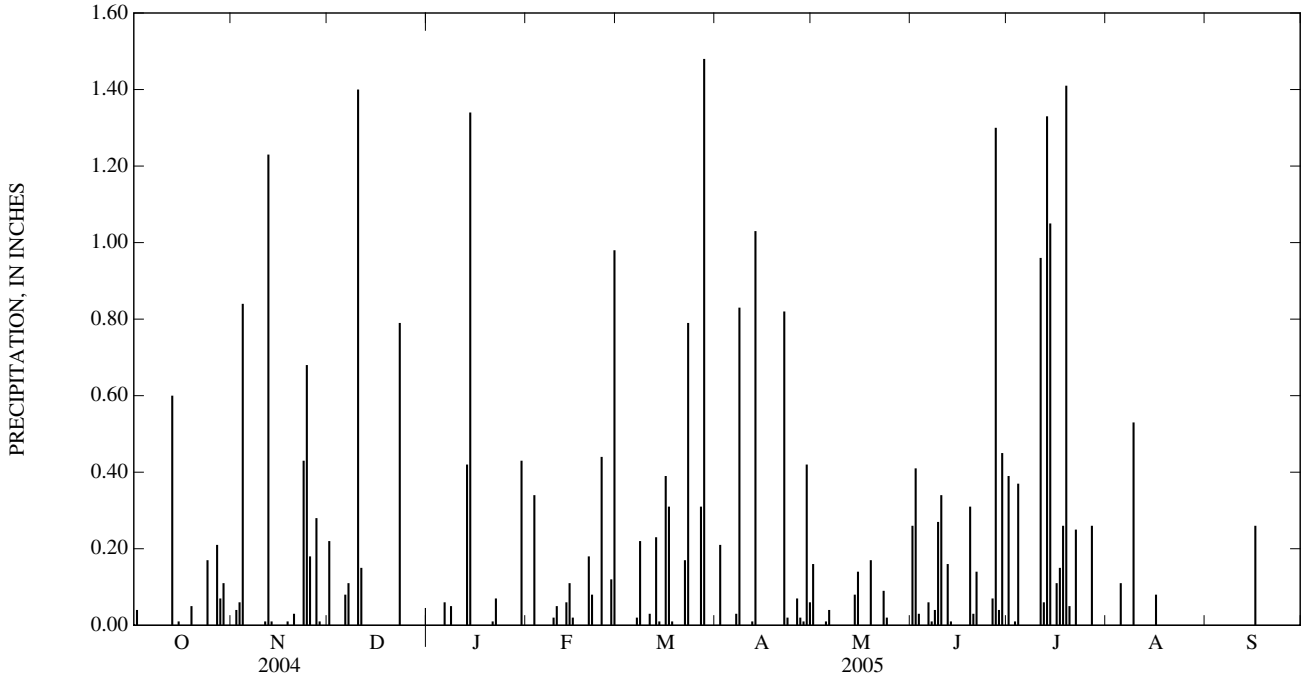
PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.16	0.26	0.39	0.00	0.00
2	0.04	0.04	0.00	0.00	0.00	0.00	0.21	0.00	0.41	---	0.00	0.00
3	0.00	0.06	0.00	0.00	0.34	0.00	0.00	0.00	0.03	0.01	0.00	0.00
4	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	---	0.11	0.00
6	0.00	0.00	0.08	0.06	0.00	0.00	0.00	0.04	0.06	0.00	0.00	0.00
7	0.00	0.00	0.11	0.00	0.00	0.02	0.03	0.00	0.01	---	0.00	0.00
8	0.00	0.00	0.00	0.05	0.00	0.22	0.83	0.00	0.04	0.00	0.00	0.00
9	0.00	0.00	---	0.00	0.02	0.00	0.00	0.00	0.27	0.00	0.53	0.00
10	0.00	0.00	1.40	0.00	0.05	0.00	0.00	---	0.34	0.00	0.00	0.00
11	0.00	0.01	0.15	0.00	0.00	0.03	0.00	0.00	0.00	0.96	0.00	0.00
12	0.00	1.23	0.00	0.00	0.00	0.00	0.01	---	0.16	0.06	0.00	0.00
13	0.60	0.01	0.00	0.42	0.06	0.23	1.03	0.00	0.01	1.33	0.00	0.00
14	0.00	0.00	0.00	1.34	0.11	0.01	0.00	0.08	0.00	1.05	0.00	0.00
15	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.14	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.11	0.08	0.26
17	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.15	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.26	0.00	0.00
19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.31	1.41	0.00	0.00
20	0.00	0.03	0.00	0.00	0.18	0.00	0.00	---	0.03	0.05	0.00	0.00
21	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00	0.14	0.00	0.00	0.00
22	0.00	0.00	0.00	0.07	0.00	0.17	0.82	0.00	0.00	0.25	0.00	0.00
23	0.00	0.43	0.79	0.00	0.00	0.79	0.02	0.09	0.00	0.00	0.00	0.00
24	0.17	0.68	0.00	0.00	0.44	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.07	0.00	0.00	0.00
27	0.21	0.28	0.00	0.00	0.12	0.31	0.02	0.00	1.30	0.26	0.00	0.00
28	0.07	0.01	0.00	0.00	0.98	1.48	0.01	0.00	0.04	---	0.00	0.00
29	0.11	0.00	0.00	0.00	---	0.00	0.42	0.00	0.45	0.00	0.00	0.00
30	0.00	0.00	0.00	0.43	---	0.00	0.06	0.00	---	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
TOTAL	1.26	3.81	---	2.38	2.40	3.97	3.53	---	---	---	0.72	0.26



02120780 SECOND CREEK NEAR BARBER, NC

LOCATION.--Lat 35°43'04", long 80°35'45", Rowan County, Hydrologic Unit 03040102, on right bank 70 ft upstream from bridge on U.S. Highway 70, 1.3 mi downstream of Withrow Creek, and 2.7 mi east of Barber.

DRAINAGE AREA.--118 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-57, 1961-63. April 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.31 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some diurnal fluctuation caused by industry 0.7 mi upstream. Minimum discharge for period of record also occurred Aug. 11, Sept. 12, 13, 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	192	56	107	70	74	294	146	93	50	31	68	24
2	155	56	96	68	69	163	145	73	175	30	44	23
3	146	62	88	68	166	129	121	67	97	30	40	22
4	e130	216	83	68	170	113	111	64	73	523	e38	21
5	e102	138	79	68	106	105	105	63	60	100	e34	20
6	e80	81	78	67	94	97	99	66	54	54	e31	19
7	e72	68	92	65	87	95	98	62	126	52	e30	18
8	e63	60	79	65	83	156	108	60	92	75	e28	18
9	e57	55	247	63	80	118	104	58	61	43	e263	18
10	e56	52	1,890	63	79	101	91	58	72	39	82	18
11	e54	52	619	62	72	95	87	69	55	38	48	16
12	e51	119	286	62	71	91	85	58	50	43	39	16
13	e49	169	194	62	70	86	109	69	50	39	35	16
14	e50	85	145	428	74	123	409	73	47	118	34	15
15	48	72	120	180	74	101	e168	76	43	53	31	16
16	45	67	109	117	72	139	e125	66	40	40	29	16
17	44	64	103	102	68	252	e105	58	38	37	47	24
18	46	62	98	89	65	188	e98	56	37	34	251	19
19	47	61	94	84	63	140	e90	55	41	34	106	17
20	48	60	82	83	64	123	e90	102	44	31	53	17
21	46	58	79	82	98	111	e85	69	38	29	43	16
22	47	56	78	78	98	107	e80	58	36	27	37	16
23	46	124	137	e74	79	231	e90	58	33	26	36	15
24	47	187	117	e73	208	162	e90	53	31	24	38	15
25	49	250	95	72	142	124	e80	52	31	24	34	15
26	46	125	87	73	104	113	e75	51	32	22	32	16
27	49	108	79	68	94	110	74	50	34	22	31	17
28	67	226	75	62	577	1,330	70	48	53	22	31	14
29	62	127	76	66	---	511	72	49	38	108	29	16
30	61	106	74	91	---	227	75	48	35	142	29	14
31	59	---	71	92	---	170	---	47	---	117	29	---
TOTAL	2,114	3,022	5,657	2,765	3,101	5,905	3,285	1,929	1,666	2,007	1,700	527
MEAN	68.2	101	182	89.2	111	190	110	62.2	55.5	64.7	54.8	17.6
MAX	192	250	1,890	428	577	1,330	409	102	175	523	263	24
MIN	44	52	71	62	63	86	70	47	31	22	28	14
CFSM	0.58	0.85	1.55	0.76	0.94	1.61	0.93	0.53	0.47	0.55	0.46	0.15
IN.	0.67	0.95	1.78	0.87	0.98	1.86	1.04	0.61	0.53	0.63	0.54	0.17

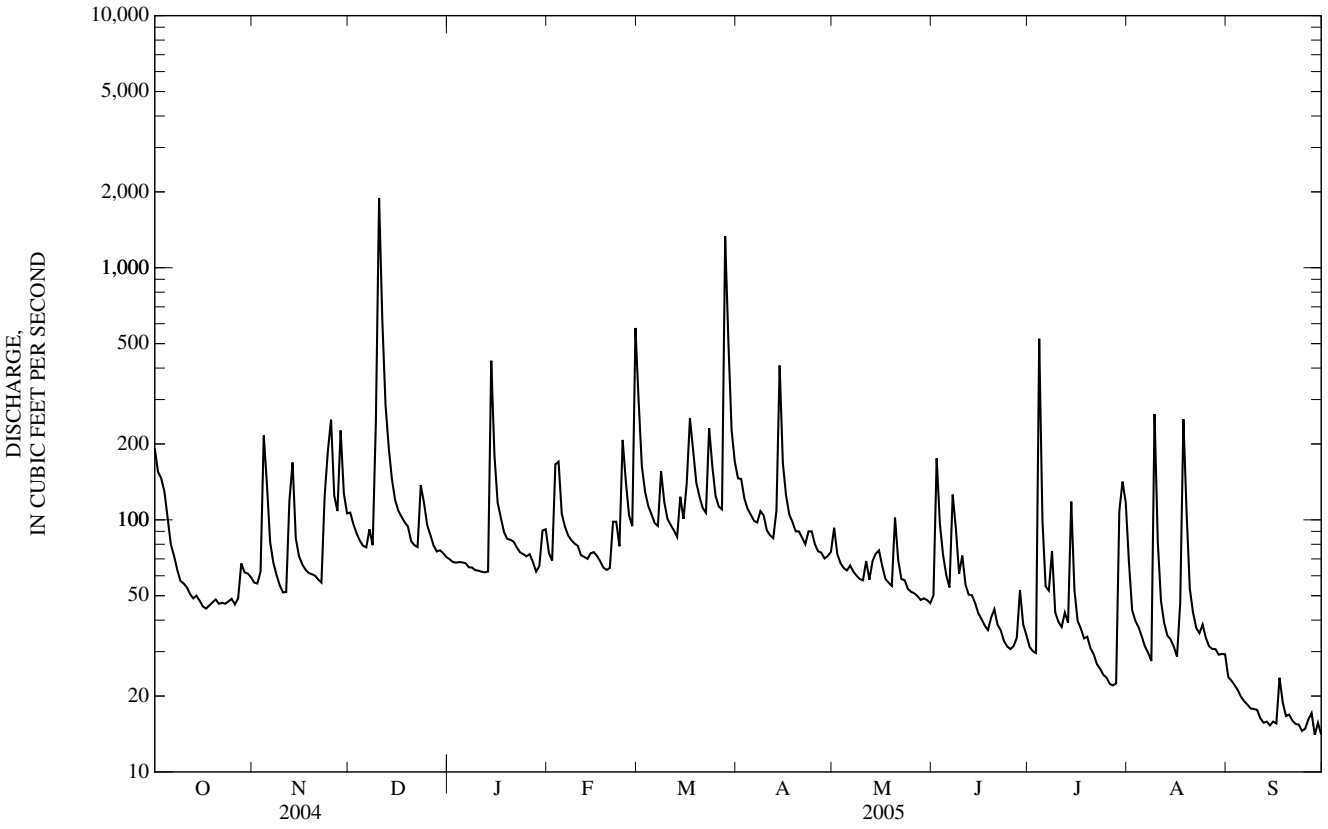
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)

MEAN	80.5	84.7	99.3	132	160	190	151	91.6	90.2	53.3	58.3	63.6
MAX	419	262	222	317	301	476	545	340	346	112	304	279
(WY)	(1991)	(1996)	(1984)	(1998)	(1990)	(1993)	(2003)	(2003)	(2003)	(2003)	(1995)	(2004)
MIN	8.37	11.0	18.7	29.6	34.3	49.7	27.9	16.1	7.96	7.34	2.00	2.57
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02120780 SECOND CREEK NEAR BARBER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1979 - 2005	
ANNUAL TOTAL	36,477		33,678			
ANNUAL MEAN	99.7		92.3		103	
HIGHEST ANNUAL MEAN					216	2003
LOWEST ANNUAL MEAN					21.0	2002
HIGHEST DAILY MEAN	3,410	Sep 28	1,890	Dec 10	5,280	Aug 28, 1995
LOWEST DAILY MEAN	15	Aug 11	14	Sep 28	1.1	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	17	Aug 5	15	Sep 24	1.2	Sep 8, 2002
MAXIMUM PEAK FLOW			2,320	Dec 10	8,560	Aug 28, 1995
MAXIMUM PEAK STAGE			12.63	Dec 10	17.28	Aug 28, 1995
INSTANTANEOUS LOW FLOW			11	Sep 28	1.1*	Aug 10, 2002
ANNUAL RUNOFF (CFSM)	0.845		0.782		0.875	
ANNUAL RUNOFF (INCHES)	11.50		10.62		11.89	
10 PERCENT EXCEEDS	137		146		165	
50 PERCENT EXCEEDS	64		68		62	
90 PERCENT EXCEEDS	25		27		18	

* See REMARKS.
e Estimated.



02120780 SECOND CREEK NEAR BARBER, NC—Continued

PRECIPITATION RECORDS

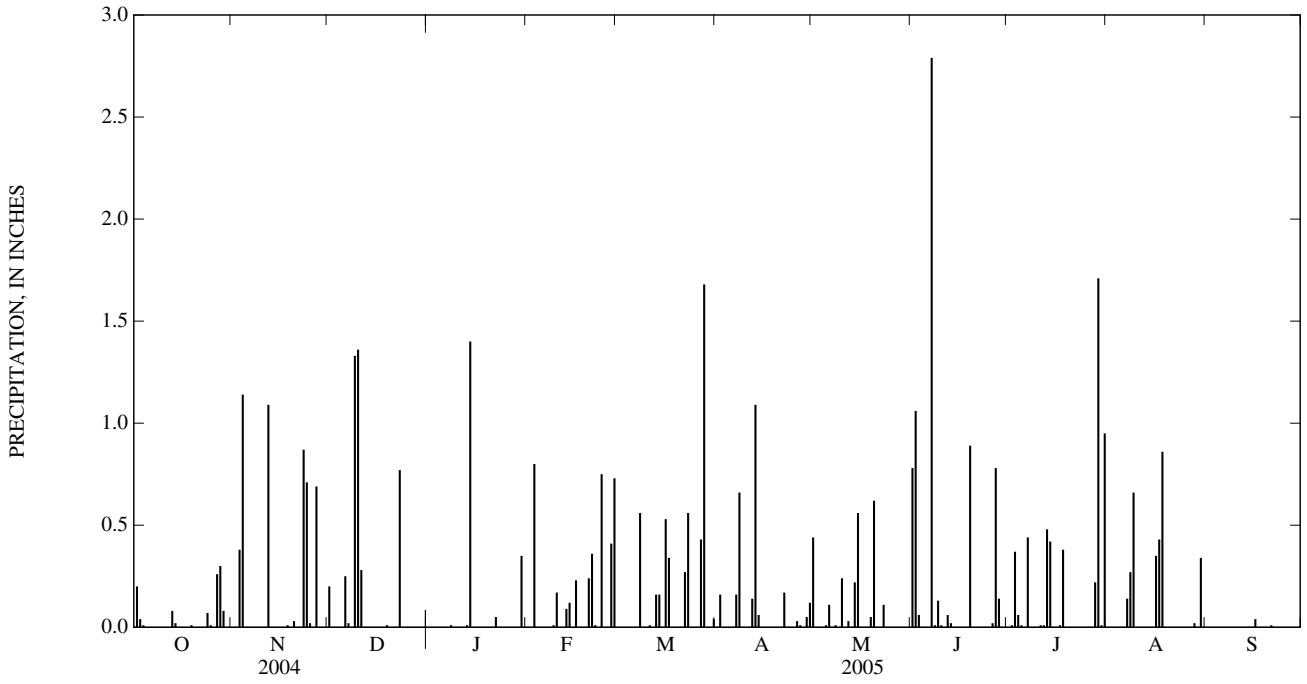
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.44	0.78	0.00	0.00	0.00
2	0.20	0.00	0.00	0.00	0.00	0.00	0.16	0.00	1.06	0.01	0.00	0.00
3	0.04	0.38	0.00	0.00	0.80	0.00	0.00	0.00	0.06	0.37	0.00	0.00
4	0.01	1.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
6	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.00	0.16	0.00	2.79	0.44	0.14	0.00
8	0.00	0.00	0.00	0.01	0.00	0.56	0.66	0.01	0.01	0.00	0.27	0.00
9	0.00	0.00	1.33	0.00	0.01	0.00	0.00	0.00	0.13	0.00	0.66	0.00
10	0.00	0.00	1.36	0.00	0.17	0.00	0.00	0.24	0.01	0.00	0.00	0.00
11	0.00	0.00	0.28	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
12	0.00	1.09	0.00	0.00	0.00	0.00	0.14	0.03	0.06	0.01	0.00	0.00
13	0.08	0.00	0.00	0.01	0.09	0.16	1.09	0.00	0.02	0.48	0.00	0.00
14	0.02	0.00	0.00	1.40	0.12	0.16	0.06	0.22	0.00	0.42	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.23	0.53	0.00	0.00	0.00	0.00	0.35	0.04
17	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.01	0.43	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.86	0.00
19	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.89	0.00	0.00	0.00
20	0.00	0.03	0.00	0.00	0.24	0.00	0.00	0.62	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.05	0.01	0.27	0.17	0.00	0.00	0.00	0.00	0.00
23	0.00	0.87	0.77	0.00	0.00	0.56	0.00	0.11	0.00	0.00	0.00	0.00
24	0.07	0.71	0.00	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00
27	0.26	0.69	0.00	0.00	0.41	0.43	0.01	0.00	0.78	0.00	0.00	0.00
28	0.30	0.00	0.00	0.00	0.73	1.68	0.00	0.00	0.14	0.22	0.02	0.00
29	0.08	0.00	0.00	0.00	---	0.00	0.05	0.00	0.00	1.71	0.00	0.00
30	0.00	0.00	0.00	0.35	---	0.00	0.12	0.00	0.00	0.01	0.34	0.00
31	0.00	---	0.00	0.00	---	0.04	---	0.00	---	0.95	0.00	---
TOTAL	1.08	4.94	4.22	1.82	3.92	4.74	2.65	2.40	6.75	5.09	3.07	0.05



02121500 ABBOTTS CREEK AT LEXINGTON, NC

LOCATION.--Lat 35°48'25", long 80°14'05", Davidson County, Hydrologic Unit 03040103, on right bank 150 ft upstream from bridge on Secondary Road 1243, 1.5 mi southeast of Lexington, and 4.5 mi downstream of Rich Fork Creek.

DRAINAGE AREA.--174 mi^2.

PERIOD OF RECORD.--March 1940 to December 1957. October 1988 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 618.26 ft above North American Vertical Datum of 1988, from levels. March 1940 to December 1957 at site 100 ft upstream at different datum. Satellite telemetry at station. Raingage located .5 mi upstream.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. The City of Lexington diverted an average of 5.3 ft^3/s for water supply. The City of High Point diverted water from the Cape Fear River basin and discharged an average of 5.91 ft^3/s of treated sewage effluent into Rich Fork Creek, upstream from station. Maximum discharge at former site, 14,800 ft^3/s, from floodmark; minimum discharge at former site 0.4 ft^3/s. Minimum discharge for period of record also occurred Sept. 5, 1990.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	51	122	91	135	966	221	121	43	39	592	19
2	219	49	125	89	107	294	225	127	144	33	201	18
3	179	47	99	87	178	192	233	84	199	31	106	16
4	154	93	89	87	488	156	163	73	151	389	62	14
5	136	147	82	86	222	143	144	66	102	239	46	12
6	109	82	79	84	157	128	131	92	89	303	36	11
7	85	64	92	86	135	119	131	96	62	161	33	12
8	70	57	101	83	122	245	488	73	129	548	30	13
9	64	53	96	81	113	318	867	66	115	200	291	12
10	81	49	2,530	79	136	169	246	64	493	121	443	12
11	92	48	3,300	80	121	144	172	74	325	85	157	11
12	62	101	718	78	97	140	149	63	134	59	84	11
13	55	570	331	77	94	128	176	73	136	48	52	12
14	68	206	245	615	103	132	585	69	109	210	43	13
15	61	118	196	626	127	117	259	69	82	167	38	14
16	49	91	163	209	107	133	169	71	30	99	36	13
17	44	81	141	153	101	380	139	59	20	65	43	12
18	42	74	128	121	87	377	127	53	19	52	61	11
19	43	72	121	102	79	213	117	52	29	44	60	9.9
20	54	70	111	100	79	168	105	168	135	83	50	11
21	56	69	93	100	105	147	95	150	54	61	38	11
22	49	68	96	95	126	136	89	86	40	42	32	18
23	48	81	146	95	100	187	96	72	34	37	29	16
24	47	165	223	e85	227	294	93	65	30	31	27	12
25	52	317	146	81	273	200	94	77	27	28	25	10
26	52	231	122	83	161	160	86	60	26	23	24	17
27	49	135	108	89	135	146	81	52	33	23	22	21
28	49	271	99	73	815	1,580	76	49	156	30	21	13
29	56	208	97	69	---	2,470	75	48	84	307	20	11
30	62	138	97	119	---	540	88	43	50	351	21	10
31	58	---	93	201	---	272	---	44	---	260	20	---
TOTAL	2,495	3,806	10,189	4,104	4,730	10,794	5,720	2,359	3,080	4,169	2,743	395.9
MEAN	80.5	127	329	132	169	348	191	76.1	103	134	88.5	13.2
MAX	250	570	3,300	626	815	2,470	867	168	493	548	592	21
MIN	42	47	79	69	79	117	75	43	19	23	20	9.9
CFSM	0.46	0.73	1.89	0.76	0.97	2.00	1.10	0.44	0.59	0.77	0.51	0.08
IN.	0.53	0.81	2.18	0.88	1.01	2.31	1.22	0.50	0.66	0.89	0.59	0.08

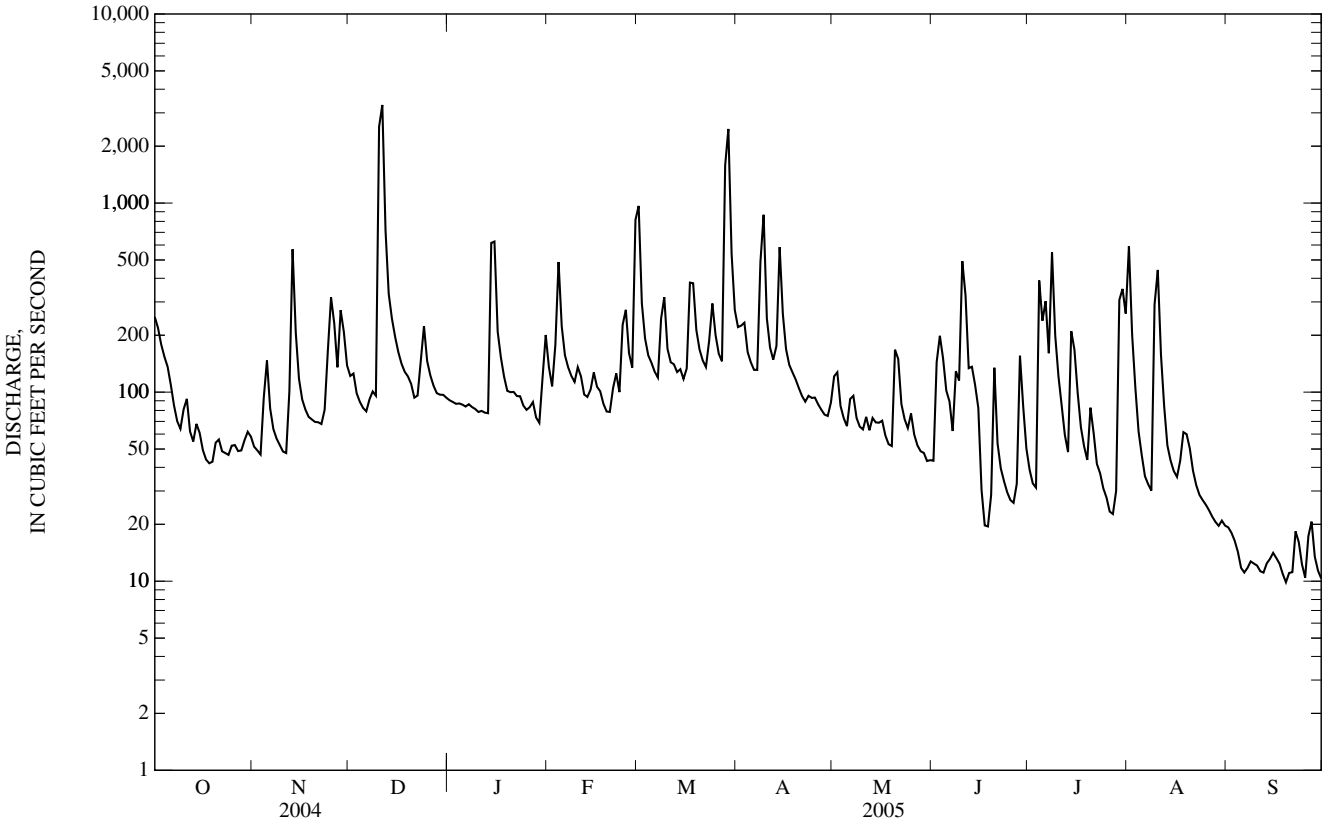
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005,@ BY WATER YEAR (WY)

MEAN	153	118	161	240	280	359	271	162	110	74.7	70.1	147
MAX	731	375	542	554	753	810	810	515	615	290	352	835
(WY)	(1990)	(2003)	(2003)	(1998)	(1990)	(2003)	(2003)	(1989)	(2003)	(2003)	(2003)	(2003)
MIN	8.08	10.3	22.4	55.9	55.4	83.7	44.4	19.4	21.2	21.6	14.9	13.2
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2002)	(1999)	(1996)	(1990)	(2005)

02121500 ABBOTTS CREEK AT LEXINGTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005[@]	
ANNUAL TOTAL	65,069		54,584.9			
ANNUAL MEAN	178		150		178	
HIGHEST ANNUAL MEAN					487	2003
LOWEST ANNUAL MEAN					45.8	2002
HIGHEST DAILY MEAN	4,590	Sep 29	3,300	Dec 11	8,000	Sep 23, 2003
LOWEST DAILY MEAN	16	Jul 26	9.9	Sep 19	2.7	Sep 4, 1990
ANNUAL SEVEN-DAY MINIMUM	20	Aug 24	12	Sep 15	3.9	Sep 1, 1990
MAXIMUM PEAK FLOW			4,580	Dec 11	11,800*	Sep 23, 2003
MAXIMUM PEAK STAGE			15.73	Dec 11	23.48	Sep 23, 2003
INSTANTANEOUS LOW FLOW			6.5	Sep 30	2.4*	Sep 4, 1990
ANNUAL RUNOFF (CFSM)	1.02		0.859		1.02	
ANNUAL RUNOFF (INCHES)	13.91		11.67		13.91	
10 PERCENT EXCEEDS	253		259		335	
50 PERCENT EXCEEDS	84		89		75	
90 PERCENT EXCEEDS	35		22		16	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



354855080134201 ABBOTTS CREEK PRECIPITATION

LOCATION.--Lat 35°48'55", long 80°13'42", Davidson County, Hydrologic Unit 03040103, in North Carolina Department of Transportation maintenance yard on Raleigh Road, at Lexington.

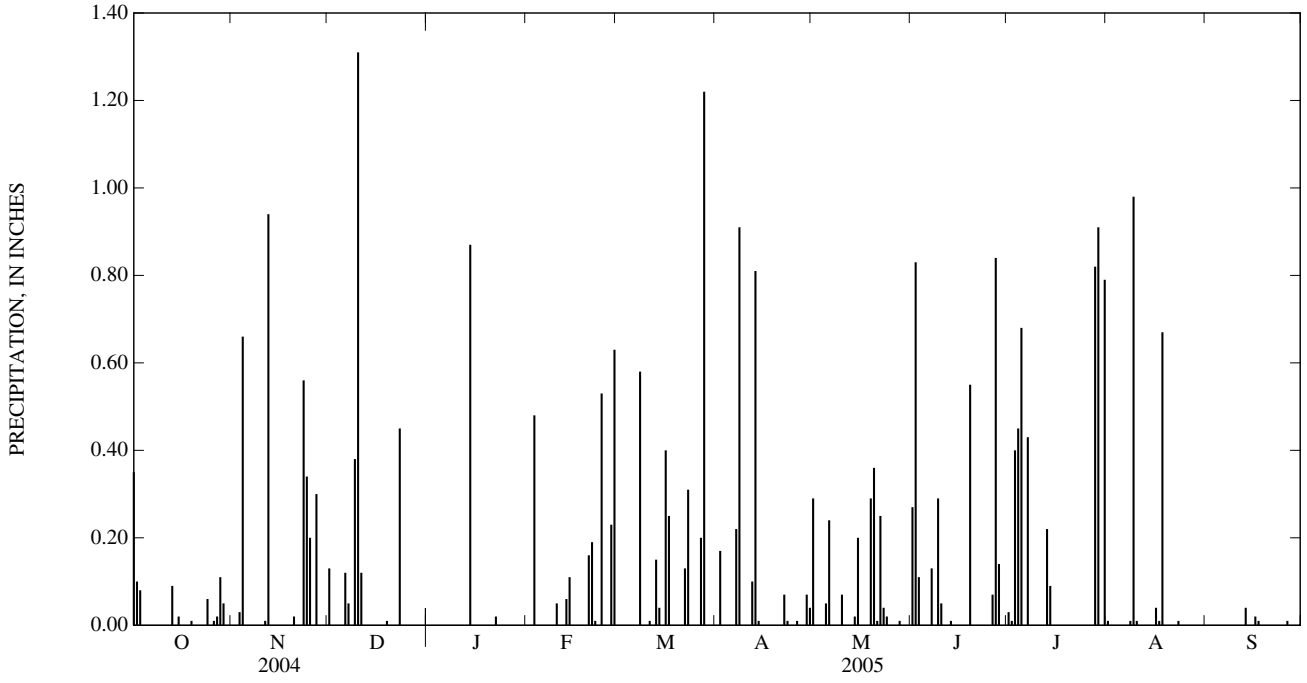
PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.35	0.00	0.13	0.00	0.00	0.00	0.00	0.29	0.27	0.03	0.01	0.00
2	0.10	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.83	0.01	0.00	0.00
3	0.08	0.03	0.00	0.00	0.48	0.00	0.00	0.00	0.11	0.40	0.00	0.00
4	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.68	0.00	0.00
6	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00
7	0.00	0.00	0.05	0.00	0.00	0.00	0.22	0.00	0.13	0.43	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.58	0.91	0.00	0.00	0.00	0.01	0.00
9	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.98	0.00
10	0.00	0.00	1.31	0.00	0.05	0.00	0.00	0.07	0.05	0.00	0.01	0.00
11	0.00	0.01	0.12	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.94	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00
13	0.09	0.00	0.00	0.00	0.06	0.15	0.81	0.00	0.01	0.22	0.00	0.04
14	0.00	0.00	0.00	0.87	0.11	0.04	0.01	0.02	0.00	0.09	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.04	0.02
17	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.01	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00
19	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.29	0.55	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.16	0.00	0.00	0.36	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.01	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.02	0.01	0.13	0.07	0.25	0.00	0.00	0.00	0.00
23	0.00	0.56	0.45	0.00	0.00	0.31	0.01	0.04	---	0.00	0.01	0.00
24	0.06	0.34	0.00	0.00	0.53	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.01
27	0.02	0.30	0.00	0.00	0.23	0.20	0.00	0.00	0.84	0.00	0.00	0.00
28	0.11	0.00	0.00	0.00	0.63	1.22	0.00	0.01	0.14	0.82	0.00	0.00
29	0.05	0.00	0.00	0.00	---	0.00	0.07	0.00	0.00	0.91	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.04	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.79	0.00	---
TOTAL	0.90	3.06	2.57	---	2.45	3.29	2.42	1.85	---	4.83	1.74	0.08



02122400 HIGH ROCK LAKE

LOCATION.--Lat 35°36'02", long 80°14'00", Davidson County, Hydrologic Unit 03040103, High Rock Lake Dam.

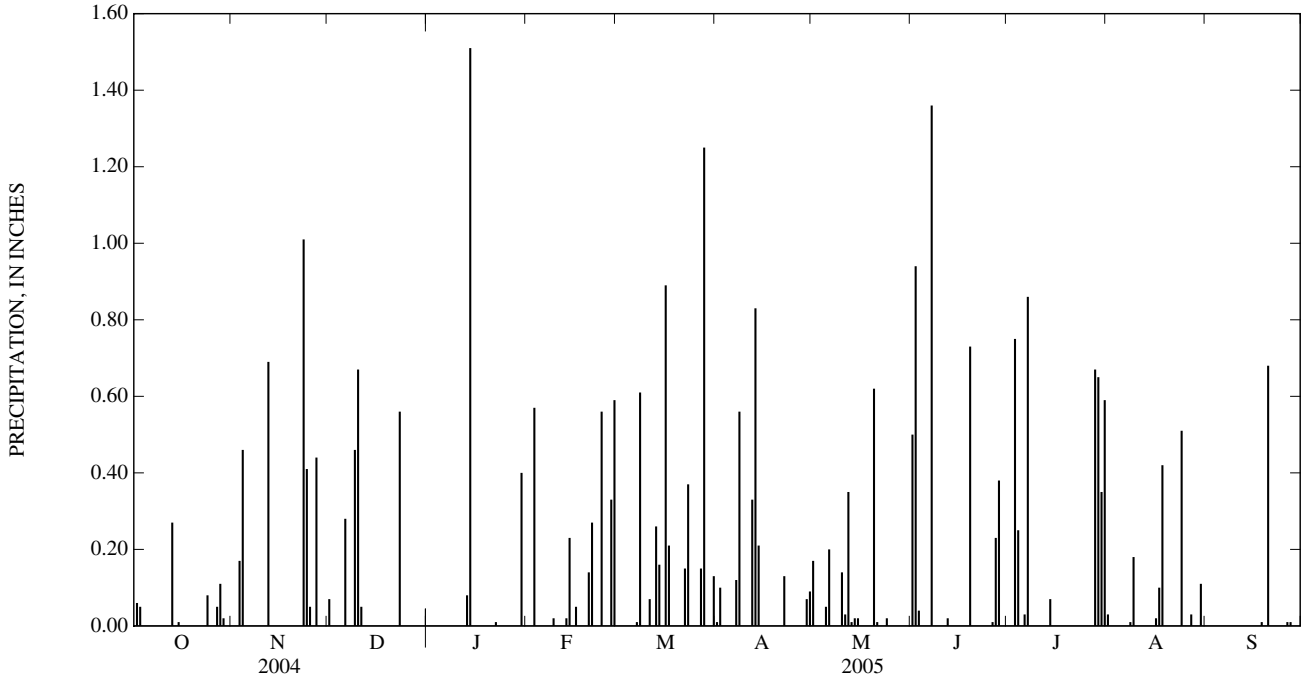
PERIOD OF RECORD.--September 1996 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.17	0.50	0.00	0.03	0.00
2	0.06	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.94	0.00	0.00	0.00
3	0.05	0.17	0.00	0.00	0.57	0.00	0.00	0.00	0.04	0.75	0.00	0.00
4	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.20	0.00	0.03	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.00	1.36	0.86	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.61	0.56	0.00	0.00	0.00	0.01	0.00
9	0.00	0.00	0.46	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.18	0.00
10	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
11	0.00	0.00	0.05	0.00	0.00	0.07	0.00	0.03	0.00	0.00	0.00	0.00
12	0.00	0.69	0.00	0.00	0.00	0.00	0.33	0.35	0.02	0.00	0.00	0.00
13	0.27	0.00	0.00	0.08	0.02	0.26	0.83	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	1.51	0.23	0.16	0.21	0.02	0.00	0.07	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.05	0.89	0.00	0.00	0.00	0.00	0.02	0.00
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	---	0.10	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.42	0.01
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.62	0.00	0.00	0.00	0.68
21	0.00	0.00	0.00	0.00	0.27	0.00	---	0.01	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.01	0.00	0.15	0.13	0.00	0.00	0.00	0.00	0.00
23	0.00	1.01	0.56	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00
24	0.08	0.41	0.00	0.00	0.56	0.00	0.00	0.02	0.00	0.00	0.51	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01
27	0.05	0.44	0.00	0.00	0.33	0.15	0.00	0.00	0.23	0.00	0.03	0.01
28	0.11	0.00	0.00	0.00	0.59	1.25	0.00	0.00	0.38	0.67	0.00	0.00
29	0.02	0.00	0.00	0.00	---	0.00	0.07	0.00	0.00	0.65	0.00	0.00
30	0.00	0.00	0.00	0.40	---	0.00	0.09	0.00	0.00	0.35	0.11	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.00	---	0.59	0.00	---
TOTAL	0.65	3.23	2.09	2.00	2.78	4.26	---	1.64	4.21	---	1.41	0.71



02122699 TUCKERTOWN RESERVOIR

LOCATION.--Lat 35°29'09", long 80°10'32", Montgomery County, Hydrologic Unit 03040103, Tuckertown Reservoir Dam.

PERIOD OF RECORD.-- October 1998 to current year.

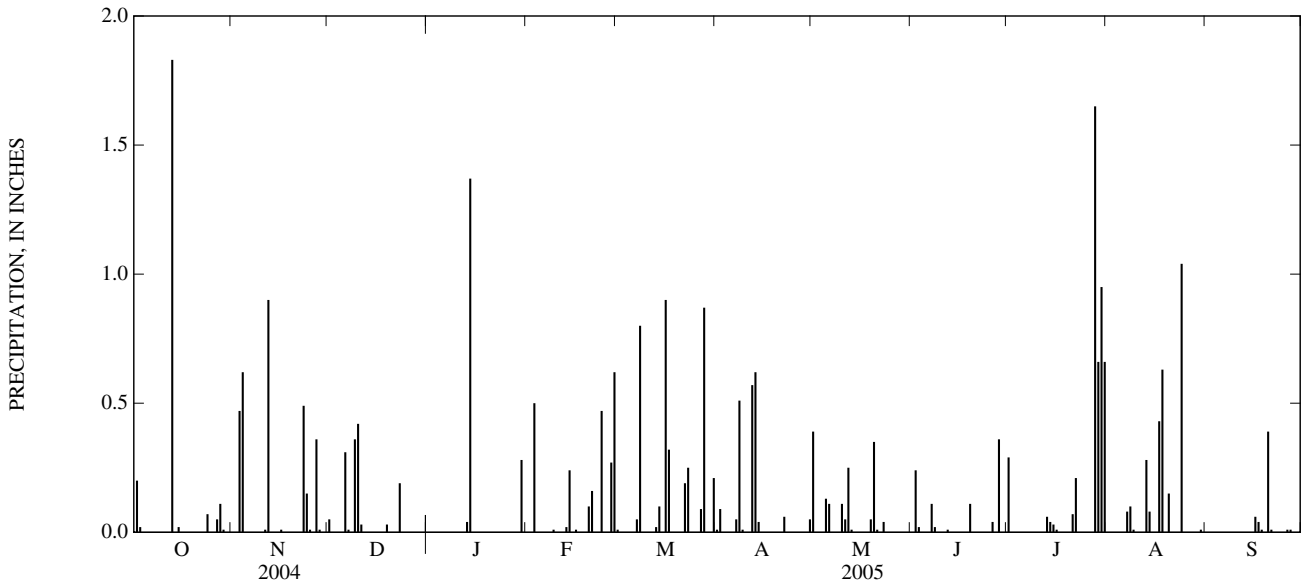
REVISED RECORDS.--WDR NC-04-1: 2002-2003.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.01	0.01	0.39	0.00	0.29	0.00	0.00
2	0.20	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.24	---	0.00	0.00
3	0.02	0.47	0.00	0.00	0.50	0.00	0.00	0.00	0.02	---	0.00	0.00
4	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	---	0.00	0.00
6	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.11	---	---	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.05	0.05	0.00	0.11	---	0.08	0.00
8	0.00	0.00	0.00	0.00	0.00	0.80	0.51	0.00	0.02	---	0.10	0.00
9	0.00	0.00	0.36	0.00	0.01	0.00	0.01	0.00	0.00	---	0.01	0.00
10	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.11	0.00	---	0.00	0.00
11	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.05	0.00	---	0.00	0.00
12	0.00	0.90	0.00	0.00	0.00	0.00	0.57	0.25	0.01	0.00	0.00	0.00
13	1.83	0.00	0.00	0.04	0.02	0.02	0.62	0.01	0.00	0.06	0.28	0.00
14	0.00	0.00	0.00	1.37	0.24	0.10	0.04	0.00	0.00	0.04	0.08	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
16	0.00	0.01	0.00	0.00	0.01	0.90	0.00	0.00	0.00	0.01	0.00	0.06
17	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.43	0.04
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.01
19	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.05	0.11	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.35	0.00	0.00	0.15	0.39
21	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.01	0.00	0.07	0.00	0.01
22	0.00	0.00	0.00	0.00	0.00	0.19	0.06	0.00	0.00	0.21	0.00	0.00
23	0.00	0.49	0.19	0.00	0.00	0.25	0.00	0.04	0.00	0.00	0.00	0.00
24	0.07	0.15	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	1.04	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.04	0.00	0.00	0.01
27	0.05	0.36	0.00	0.00	0.27	0.09	---	0.00	0.00	0.00	0.00	0.01
28	0.11	0.01	0.00	0.00	0.62	0.87	---	0.00	0.36	1.65	0.00	0.00
29	0.01	0.00	0.00	0.00	---	0.00	---	0.00	0.00	0.66	0.00	0.00
30	0.00	0.00	0.00	0.28	---	0.00	0.05	0.00	0.00	0.95	0.01	0.00
31	0.00	---	0.00	0.00	---	0.21	---	0.00	---	0.66	0.00	---
TOTAL	2.31	3.03	1.40	1.69	2.40	3.81	---	1.50	---	---	2.81	0.53



0212393300 WEST BRANCH ROCKY RIVER BELOW MOUTH OF SOUTH PRONG RIVER NEAR CORNELIUS, NC

LOCATION.--Lat 35°28'04", long 80°47'25", Mecklenburg County, Hydrologic Unit 03040105, on downstream side of box culvert on River Ford Road, 30 ft downstream of mouth of South Prong River, and 4.0 mi southwest of Cornelius.

DRAINAGE AREA.--20.8 mi^2.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 638.42 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.2	16	8.8	9.4	36	25	16	8.5	3.3	5.3	2.1
2	20	6.4	14	8.3	9.2	23	26	9.1	34	4.9	4.3	2.0
3	57	8.8	13	8.5	30	19	20	8.7	9.8	4.0	4.1	1.9
4	29	77	12	8.2	16	18	19	8.2	7.8	41	4.0	1.9
5	16	23	12	8.2	11	17	19	8.3	7.0	8.2	3.3	1.7
6	12	14	14	8.3	10	15	17	8.5	6.5	6.5	3.1	1.6
7	9.9	12	21	8.0	9.8	15	19	7.9	8.0	6.9	3.0	1.6
8	8.9	10	14	8.0	9.9	41	24	7.8	9.4	6.0	7.8	1.5
9	8.5	9.5	82	7.3	9.6	19	19	7.3	7.1	e5.4	29	1.4
10	8.0	9.2	369	7.3	9.5	16	17	9.0	13	5.3	22	1.3
11	7.4	8.8	45	7.1	e9.0	16	16	9.3	7.3	4.7	5.7	1.2
12	7.4	37	25	7.1	e9.3	15	22	7.0	6.2	4.9	4.6	1.2
13	7.6	23	19	7.3	e9.0	15	38	7.1	6.7	4.2	4.0	1.1
14	7.0	14	15	123	e10	16	116	11	5.5	4.0	3.7	1.1
15	6.6	12	13	21	e8.8	14	29	9.4	5.2	3.3	3.3	1.1
16	6.3	12	12	16	8.3	41	23	7.5	4.8	2.8	5.0	3.8
17	6.2	11	12	13	8.1	44	21	7.2	4.5	3.2	3.1	1.5
18	6.5	11	11	12	8.0	26	20	6.9	4.3	2.8	42	0.84
19	6.5	10	11	12	7.8	19	18	6.6	5.1	2.3	7.7	0.87
20	6.3	10	9.7	12	8.0	18	17	16	5.4	2.0	5.7	0.93
21	6.2	9.6	9.4	11	21	17	16	7.7	4.3	2.0	4.8	1.1
22	6.2	9.6	9.1	11	14	18	16	6.8	4.1	2.0	4.4	1.2
23	6.3	15	27	10	10	72	15	7.4	4.0	1.9	4.0	1.4
24	6.7	25	13	10	50	28	12	6.2	3.7	1.4	3.9	1.2
25	6.2	23	11	9.8	17	20	12	5.9	3.7	1.5	3.4	1.1
26	6.1	14	11	9.3	12	18	11	5.9	3.9	1.5	3.0	1.3
27	6.0	17	9.9	8.3	11	18	11	5.6	4.2	1.4	2.9	1.3
28	11	39	9.8	8.3	150	353	10	5.5	6.6	2.5	2.9	1.2
29	7.0	17	9.9	9.1	---	51	9.8	5.2	4.4	36	2.8	1.4
30	6.5	15	9.4	14	---	32	11	5.0	3.6	9.2	2.8	1.3
31	6.3	---	8.8	11	---	28	---	5.1	---	19	2.4	---
TOTAL	324.6	509.1	868.0	423.2	495.7	1,098	648.8	245.1	208.6	204.1	208.0	43.14
MEAN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.58	6.71	1.44
MAX	57	77	369	123	150	353	116	16	34	41	42	3.8
MIN	6.0	6.2	8.8	7.1	7.8	14	9.8	5.0	3.6	1.4	2.4	0.84
CFSM	0.50	0.82	1.35	0.66	0.85	1.70	1.04	0.38	0.33	0.32	0.32	0.07
IN.	0.58	0.91	1.55	0.76	0.89	1.96	1.16	0.44	0.37	0.37	0.37	0.08

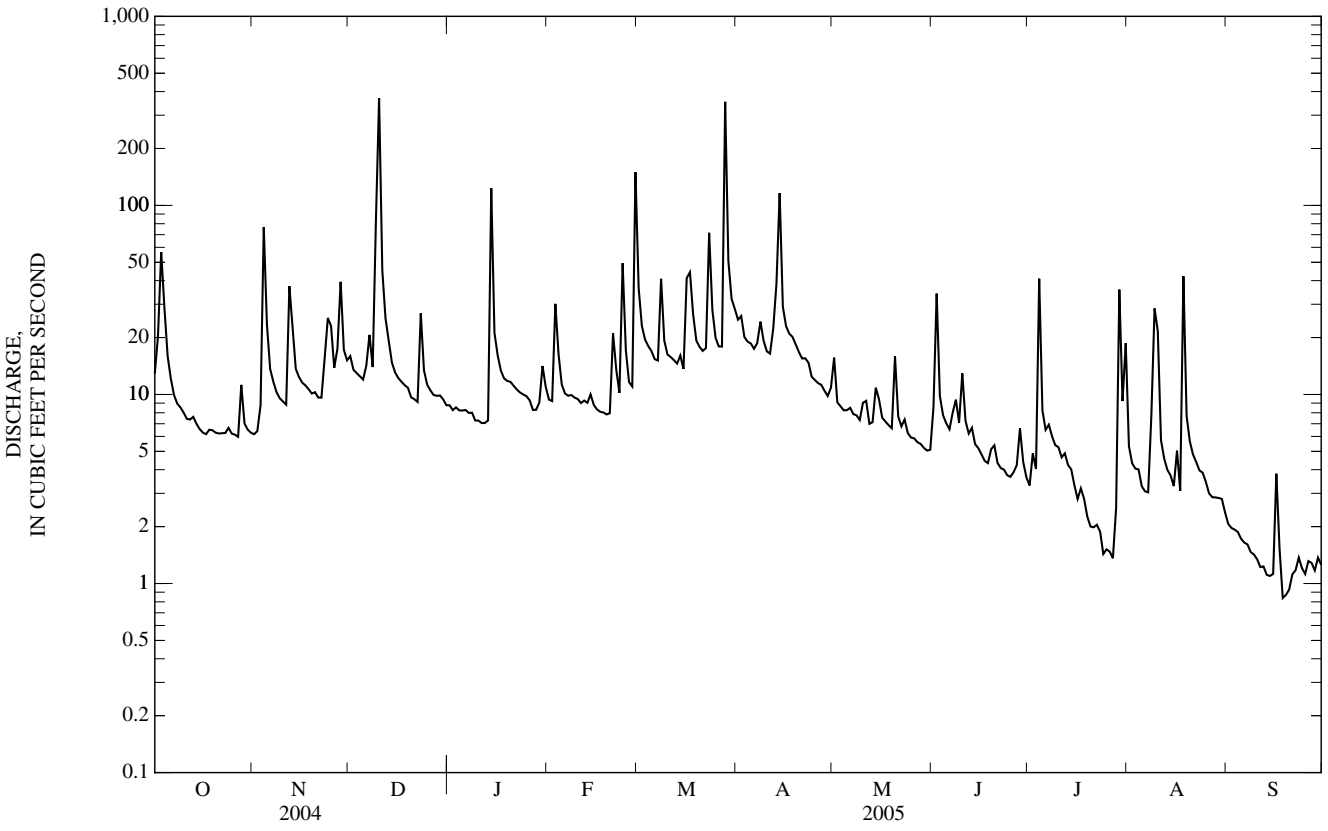
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.68	4.92	27.4
MAX	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.78	6.71	53.4
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)
MIN	10.5	17.0	28.0	13.7	17.7	35.4	21.6	7.91	6.95	6.58	3.12	1.44
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL			5,276.34			
ANNUAL MEAN			14.5		14.5	
HIGHEST ANNUAL MEAN					14.5	2005
LOWEST ANNUAL MEAN					14.5	2005
HIGHEST DAILY MEAN	1,040	Sep 28	369	Dec 10	1,040	Sep 28, 2004
LOWEST DAILY MEAN	1.4	Aug 11	0.84	Sep 18	0.84	Sep 18, 2005
ANNUAL SEVEN-DAY MINIMUM	1.8	Aug 5	1.1	Sep 18	1.1	Sep 18, 2005
MAXIMUM PEAK FLOW			1,460	Dec 10	2,350	Sep 28, 2004
MAXIMUM PEAK STAGE			9.69	Dec 10	12.59	Sep 28, 2004
INSTANTANEOUS LOW FLOW			0.63	Sep 20	0.63	Sep 20, 2005
ANNUAL RUNOFF (CFSM)			0.695		0.695	
ANNUAL RUNOFF (INCHES)			9.44		9.44	
10 PERCENT EXCEEDS			24		24	
50 PERCENT EXCEEDS			8.8		8.8	
90 PERCENT EXCEEDS			2.1		2.1	

e Estimated.

0212393300 WEST BRANCH ROCKY RIVER BELOW MOUTH OF SOUTH PRONG RIVER NEAR CORNELIUS, NC—Continued



02124080 CLARKE CREEK NEAR HARRISBURG, NC

LOCATION.--Lat 35°24'51", long 80°45'07", Cabarrus County, Hydrologic Unit 03040105, on left wingwall on upstream side of bridge on Secondary Road 1449, 3.0 mi upstream from mouth, and 8.5 mi northwest of Harrisburg.

DRAINAGE AREA.--21.9 mi^2.

PERIOD OF RECORD.--July 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 608.30 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record also occurred May 27, Aug. 8, 2004. Minimum discharge for current water year and period of record is affected by withdrawal from golf course upstream.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	4.8	10	7.8	10	59	28	10	3.4	9.4	5.7	e1.8
2	17	4.4	8.4	7.7	9.3	28	27	6.0	44	5.4	2.4	e1.5
3	19	7.5	7.6	7.5	33	21	23	5.5	13	5.1	2.1	1.2
4	16	77	6.9	7.7	25	18	17	4.7	8.9	5.0	2.0	1.1
5	11	21	6.5	7.9	17	14	14	4.4	7.1	3.1	1.8	0.98
6	9.2	12	7.3	7.3	12	13	13	4.2	5.4	4.5	0.99	0.84
7	7.7	9.6	13	7.6	10	12	13	4.4	31	12	0.36	0.80
8	6.8	8.4	9.7	7.3	9.4	45	32	4.0	37	9.4	15	1.2
9	6.9	7.5	27	7.5	8.5	24	27	3.8	93	6.0	11	1.3
10	6.9	7.0	352	7.6	8.5	e20	18	2.8	87	e1.8	5.6	0.83
11	5.9	6.7	96	7.6	7.9	e18	14	3.1	22	e1.6	3.6	0.30
12	5.6	16	35	7.5	8.0	e17	22	2.4	14	e1.4	3.0	0.25
13	5.5	16	24	7.2	7.5	e16	47	2.1	10	1.2	6.7	0.23
14	4.4	9.2	19	70	9.9	e18	139	2.5	6.6	1.6	9.7	0.39
15	4.3	8.0	16	21	9.1	e15	35	2.8	4.9	1.6	4.6	0.41
16	4.0	7.6	15	15	7.5	51	23	3.9	3.8	0.81	3.4	0.57
17	4.1	7.5	14	13	10	62	18	3.7	3.4	0.50	0.63	0.86
18	4.1	7.2	13	11	8.5	32	15	3.3	3.4	0.48	31	0.88
19	5.0	7.1	12	11	7.1	25	12	1.5	3.2	1.1	6.0	0.51
20	6.4	7.2	10	11	7.8	19	10	5.6	4.5	0.28	2.8	0.55
21	5.6	6.7	9.0	11	21	17	8.7	4.9	3.1	0.26	1.8	0.32
22	5.8	6.4	8.7	9.8	18	18	8.5	4.1	1.4	0.26	2.3	0.24
23	5.2	7.4	23	9.5	12	82	9.1	3.8	2.1	0.52	4.3	0.16
24	5.8	12	15	8.6	54	34	8.0	2.5	1.6	0.38	23	0.33
25	5.2	16	11	8.8	26	23	7.4	2.8	2.2	0.52	2.5	0.26
26	4.8	8.2	10	9.0	19	20	7.4	1.6	2.8	0.17	2.2	0.26
27	4.4	10	9.8	8.3	16	21	6.5	1.6	6.6	0.11	2.4	0.36
28	6.2	39	8.5	7.1	201	377	6.6	1.2	13	0.46	3.3	0.35
29	5.8	14	8.6	7.8	---	102	5.8	2.6	6.0	8.8	2.0	0.20
30	4.7	10	8.3	17	---	37	6.5	3.3	4.1	11	1.7	0.11
31	4.6	---	8.2	14	---	32	---	2.5	---	17	2.0	---
TOTAL	226.9	381.4	822.5	361.1	593.0	1,290	621.5	111.6	448.5	111.75	165.88	19.09
MEAN	7.32	12.7	26.5	11.6	21.2	41.6	20.7	3.60	14.9	3.60	5.35	0.64
MAX	19	77	352	70	201	377	139	10	93	17	31	1.8
MIN	4.0	4.4	6.5	7.1	7.1	12	5.8	1.2	1.4	0.11	0.36	0.11
CFSM	0.33	0.58	1.21	0.53	0.97	1.90	0.95	0.16	0.68	0.16	0.24	0.03
IN.	0.39	0.65	1.40	0.61	1.01	2.19	1.06	0.19	0.76	0.19	0.28	0.03

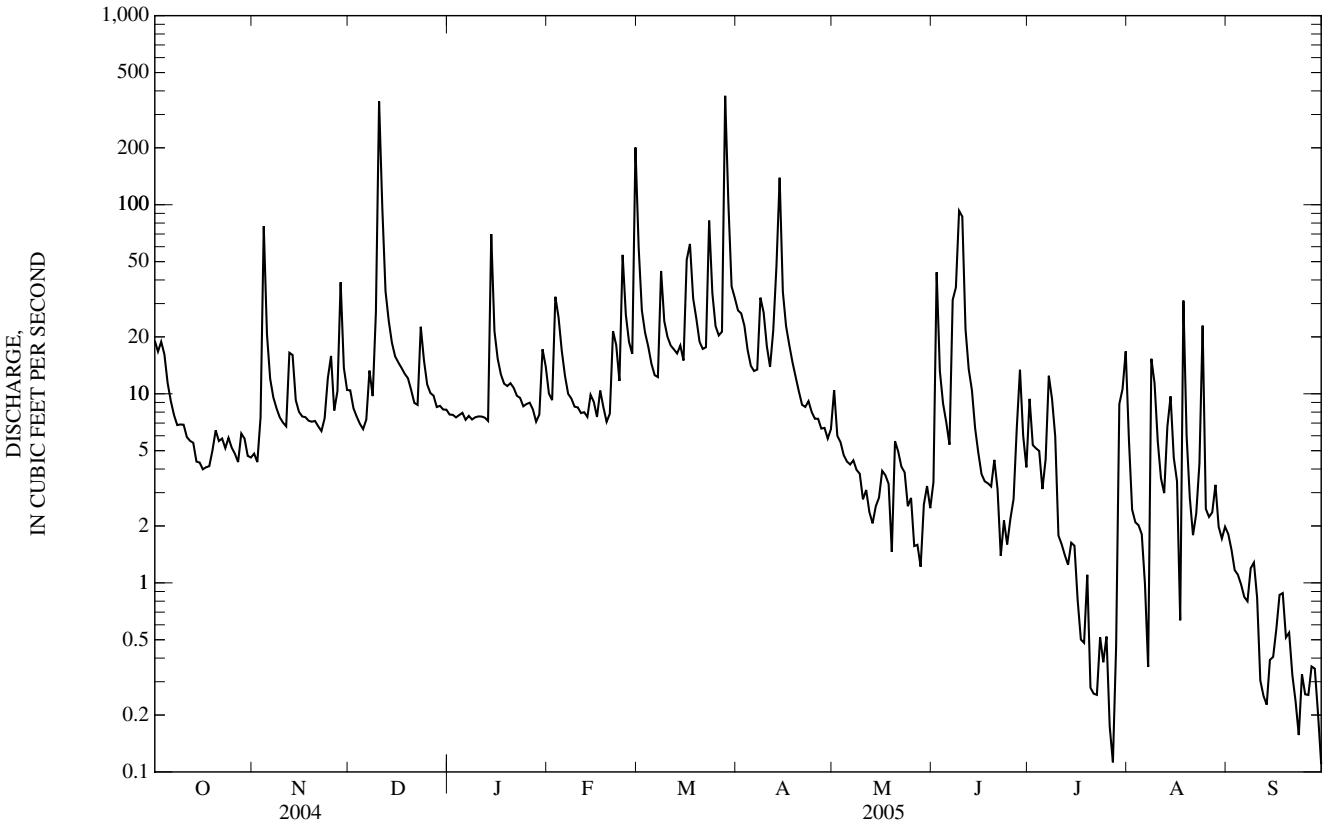
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	5.04	7.95	16.9	8.32	19.6	26.2	15.1	3.80	9.85	4.63	5.38	23.0
MAX	7.32	12.7	26.5	11.6	21.2	41.6	20.7	4.00	14.9	5.65	7.98	62.6
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2004)	(2003)	(2004)
MIN	2.76	3.19	7.19	4.98	18.1	10.8	9.39	3.60	4.74	3.60	2.82	0.64
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2004)	(2005)	(2004)	(2005)

02124080 CLARKE CREEK NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	5,132.01		5,153.22			
ANNUAL MEAN	14.0		14.1		12.7	
HIGHEST ANNUAL MEAN					14.1	2005
LOWEST ANNUAL MEAN					11.2	2004
HIGHEST DAILY MEAN	1,070	Sep 28	377	Mar 28	1,070	Sep 28, 2004
LOWEST DAILY MEAN	0.03	Aug 10	0.11	Jul 27	0.03	Aug 10, 2004
ANNUAL SEVEN-DAY MINIMUM	0.71	Aug 5	0.27	Sep 24	0.27	Sep 24, 2005
MAXIMUM PEAK FLOW			626	Dec 10	2,290	Sep 28, 2004
MAXIMUM PEAK STAGE			8.23	Dec 10	11.51	Sep 28, 2004
INSTANTANEOUS LOW FLOW			0.07*	Jul 26	0.01*	May 26, 2004
ANNUAL RUNOFF (CFSM)	0.640		0.645		0.578	
ANNUAL RUNOFF (INCHES)	8.72		8.75		7.86	
10 PERCENT EXCEEDS	19		25		21	
50 PERCENT EXCEEDS	6.2		7.5		5.6	
90 PERCENT EXCEEDS	1.6		0.87		1.3	

* See REMARKS.
e Estimated.



0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC

LOCATION.--Lat 35°19'58", long 80°42'57", Mecklenburg County, Hydrologic Unit 03040105, on left bank on upstream side of bridge at Pavillion Blvd, 0.1 mi downstream of Stony Creek, and 3.8 mi northwest of Harrisburg.

DRAINAGE AREA.--34.6 mi^2.

PERIOD OF RECORD.--December 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 568.40 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from contracted opening measurement of peak flow; maximum gage height for period of record from floodmarks. No flow occurred for part of each day Aug. 8, 9, 10, 12, 13, 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e34	9.6	16	13	16	68	44	34	41	261	15	3.6
2	22	11	12	13	14	37	43	13	243	51	9.4	3.4
3	54	13	11	13	129	29	27	11	32	112	7.6	3.2
4	27	169	9.8	13	46	25	23	11	17	53	7.0	2.7
5	16	36	9.4	12	27	22	20	11	12	17	5.7	2.2
6	14	15	32	13	21	20	18	12	13	13	5.3	1.9
7	13	e12	33	13	19	19	20	10	93	83	5.0	1.7
8	12	e10	13	12	18	202	38	9.6	91	30	22	1.5
9	12	9.3	34	12	18	43	26	9.9	191	14	57	1.3
10	11	9.5	394	13	19	28	17	14	85	11	36	1.3
11	10	9.3	59	12	16	23	15	17	22	22	12	1.5
12	11	67	34	11	15	21	165	19	13	18	6.2	1.6
13	61	30	25	12	15	18	241	14	11	11	36	1.4
14	14	12	21	273	38	e27	243	9.7	9.5	9.6	23	1.5
15	11	10	19	38	24	18	49	14	7.9	8.0	7.5	1.6
16	9.9	9.9	18	24	43	140	32	9.9	7.0	7.5	5.6	12
17	9.6	9.4	17	20	e20	179	26	8.8	6.7	7.0	7.7	2.9
18	10	8.8	16	18	19	48	23	8.4	6.3	15	5.0	1.7
19	12	8.6	16	e16	17	30	21	8.1	6.1	10	4.8	1.9
20	11	8.7	15	e16	18	24	19	30	6.8	6.9	4.0	1.7
21	9.7	8.8	14	e15	74	21	17	12	6.1	5.8	3.7	1.6
22	9.5	8.7	15	15	38	46	25	8.7	5.6	21	4.1	1.5
23	8.9	17	88	14	24	288	25	8.3	5.3	9.3	4.1	1.3
24	14	70	31	13	123	54	15	7.4	5.3	7.4	35	1.4
25	10	53	20	14	40	32	14	7.2	5.0	5.5	5.1	1.5
26	8.8	15	17	13	26	25	13	7.8	56	5.7	3.9	1.9
27	9.6	40	15	12	23	27	14	7.1	54	5.5	3.5	2.0
28	24	96	14	11	428	776	13	7.0	123	9.6	3.7	1.6
29	13	20	14	13	---	82	12	6.8	22	84	3.7	1.2
30	10	14	14	54	---	42	21	8.7	153	e103	5.3	1.7
31	9.8	---	14	25	---	72	---	7.8	---	56	4.4	---
TOTAL	501.8	810.6	1,060.2	766	1,328	2,486	1,279	363.2	1,349.6	1,072.8	358.3	66.3
MEAN	16.2	27.0	34.2	24.7	47.4	80.2	42.6	11.7	45.0	34.6	11.6	2.21
MAX	61	169	394	273	428	776	243	34	243	261	57	12
MIN	8.8	8.6	9.4	11	14	18	12	6.8	5.0	5.5	3.5	1.2
CFSM	0.47	0.78	0.99	0.71	1.37	2.32	1.23	0.34	1.30	1.00	0.33	0.06
IN.	0.54	0.87	1.14	0.82	1.43	2.67	1.38	0.39	1.45	1.15	0.39	0.07

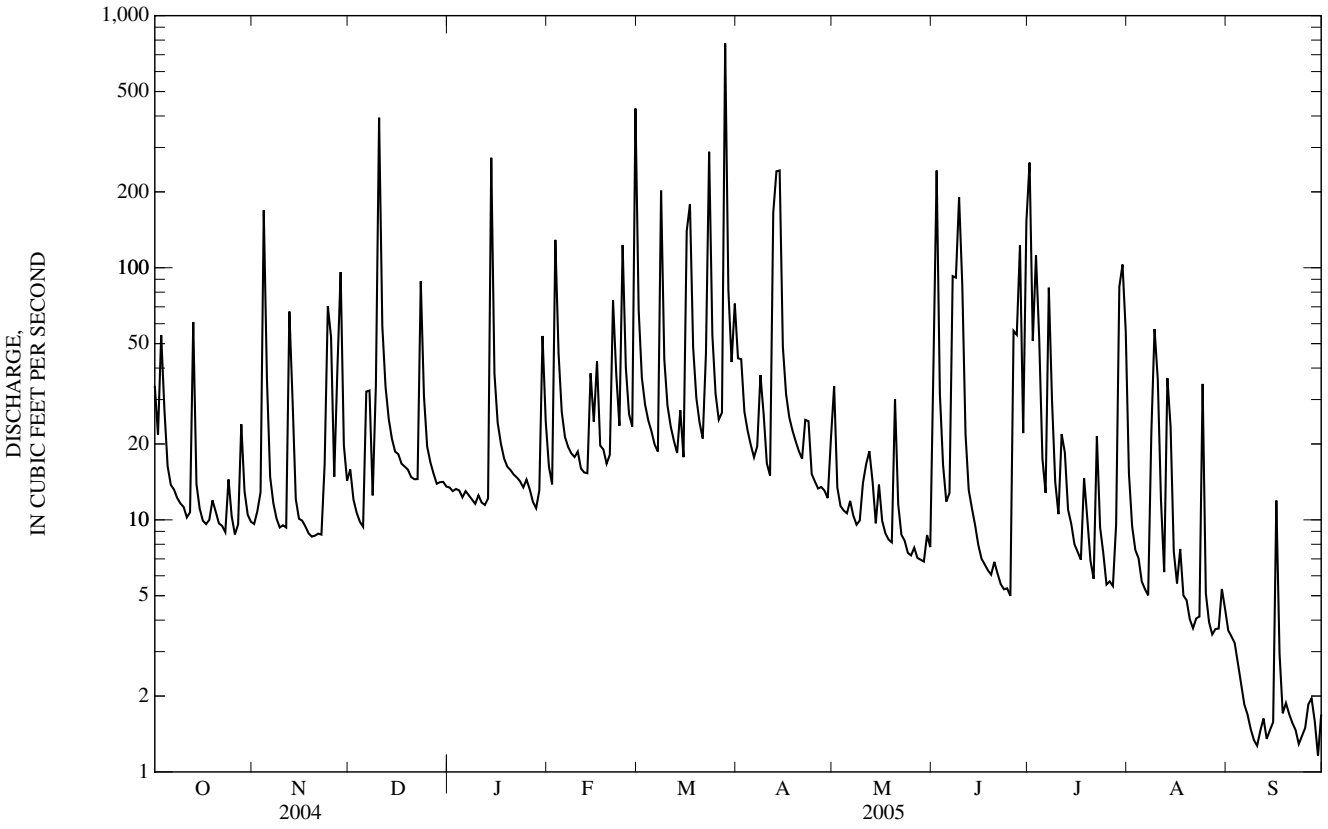
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	24.7	28.7	31.7	49.0	53.4	62.5	53.1	29.7	34.6	30.6	30.4	33.6
MAX	53.7	90.4	93.3	147	95.0	165	195	161	132	92.9	105	163
(WY)	(1996)	(1996)	(2003)	(1998)	(1997)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	2.75	3.80	9.44	11.8	15.0	15.5	11.2	9.55	5.82	9.09	1.74	2.21
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(1995)	(2001)	(2002)	(2001)	(2001)	(2005)

0212414900 MALLARD CREEK BELOW STONY CREEK NEAR HARRISBURG, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	15,500.1		11,441.8			
ANNUAL MEAN	42.4		31.3		38.4	
HIGHEST ANNUAL MEAN					86.5	2003
LOWEST ANNUAL MEAN					16.0	2002
HIGHEST DAILY MEAN	2,170	Sep 28	776	Mar 28	2,350	Aug 27, 1995
LOWEST DAILY MEAN	3.1	Jun 3	1.2	Sep 29	0.01	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	4.8	May 24	1.4	Sep 8	0.07	Aug 8, 2002
MAXIMUM PEAK FLOW			1,880	Mar 28	6,260*	Aug 27, 1995
MAXIMUM PEAK STAGE			12.21	Mar 28	17.34*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			0.60	Sep 29	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	1.22		0.906		1.11	
ANNUAL RUNOFF (INCHES)	16.66		12.30		15.08	
10 PERCENT EXCEEDS	62		58		67	
50 PERCENT EXCEEDS	13		14		13	
90 PERCENT EXCEEDS	6.3		4.1		3.2	

* See REMARKS.
e Estimated.



0212419274 CODDLE CREEK AT SECONDARY ROAD 1612 NEAR DAVIDSON, NC

LOCATION.--Lat 35°30'14", long 80°44'11", Cabarrus County, Hydrologic Unit 03040105, on right downstream wingwall on Secondary Road 1612, 6 mi northeast of Davidson.

DRAINAGE AREA.--22.7 mi^2.

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 655.12 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	9.2	17	14	16	47	28	19	11	6.7	11	5.9
2	21	9.2	15	14	15	32	26	14	36	6.6	8.1	5.6
3	28	11	15	14	29	26	23	14	19	24	7.4	5.2
4	25	39	14	14	27	23	21	13	14	554	7.0	5.1
5	17	23	13	14	20	21	20	13	11	29	6.7	5.2
6	15	16	13	14	18	19	19	14	10	15	6.6	5.0
7	14	15	16	14	17	19	19	13	9.2	12	6.6	5.0
8	13	13	14	14	17	34	20	13	9.8	11	7.3	5.3
9	12	12	41	13	17	25	19	12	15	9.4	25	4.5
10	12	12	348	13	16	21	18	13	23	9.2	12	4.3
11	11	12	55	13	16	20	17	16	12	9.3	9.1	4.2
12	11	25	36	13	16	19	19	14	9.9	9.9	7.6	4.4
13	12	26	28	13	16	19	27	15	9.4	8.9	7.1	4.0
14	11	17	23	90	17	20	91	16	8.9	9.2	7.2	4.2
15	10	15	21	33	16	18	33	15	8.1	8.7	6.9	4.0
16	9.6	15	19	25	16	33	25	13	8.1	8.4	6.6	4.3
17	9.4	14	18	21	15	42	22	12	7.6	8.1	6.5	4.6
18	9.4	13	17	19	14	32	20	12	7.4	7.6	71	4.1
19	9.6	13	17	18	14	26	18	11	8.0	7.5	18	3.9
20	9.7	13	15	18	15	24	17	17	9.2	7.3	11	3.9
21	9.5	12	16	17	22	22	16	13	7.9	e6.9	8.5	3.9
22	9.5	12	16	17	21	21	17	11	7.4	e6.0	7.7	3.9
23	9.3	17	25	e16	17	53	17	12	7.0	5.5	7.6	4.0
24	9.6	23	20	e16	39	35	15	12	6.9	5.4	8.1	3.8
25	9.4	28	17	16	28	27	15	10	6.7	5.6	7.2	3.7
26	9.3	18	16	16	22	24	15	10	6.8	e5.5	7.0	4.1
27	9.4	19	15	14	20	23	15	10	7.0	e6.1	6.8	4.2
28	13	37	15	14	111	295	14	11	7.8	6.1	6.7	3.8
29	11	22	15	15	---	63	14	9.7	7.7	25	6.5	3.9
30	10	18	15	19	---	39	15	10	7.2	20	6.6	3.7
31	9.6	---	15	18	---	32	---	9.6	---	22	6.4	---
TOTAL	393.3	528.4	940	579	627	1,154	655	397.3	319.0	875.9	327.8	131.7
MEAN	12.7	17.6	30.3	18.7	22.4	37.2	21.8	12.8	10.6	28.3	10.6	4.39
MAX	28	39	348	90	111	295	91	19	36	554	71	5.9
MIN	9.3	9.2	13	13	14	18	14	9.6	6.7	5.4	6.4	3.7
CFSM	0.56	0.78	1.34	0.82	0.99	1.64	0.96	0.56	0.47	1.24	0.47	0.19
IN.	0.64	0.87	1.54	0.95	1.03	1.89	1.07	0.65	0.52	1.44	0.54	0.22

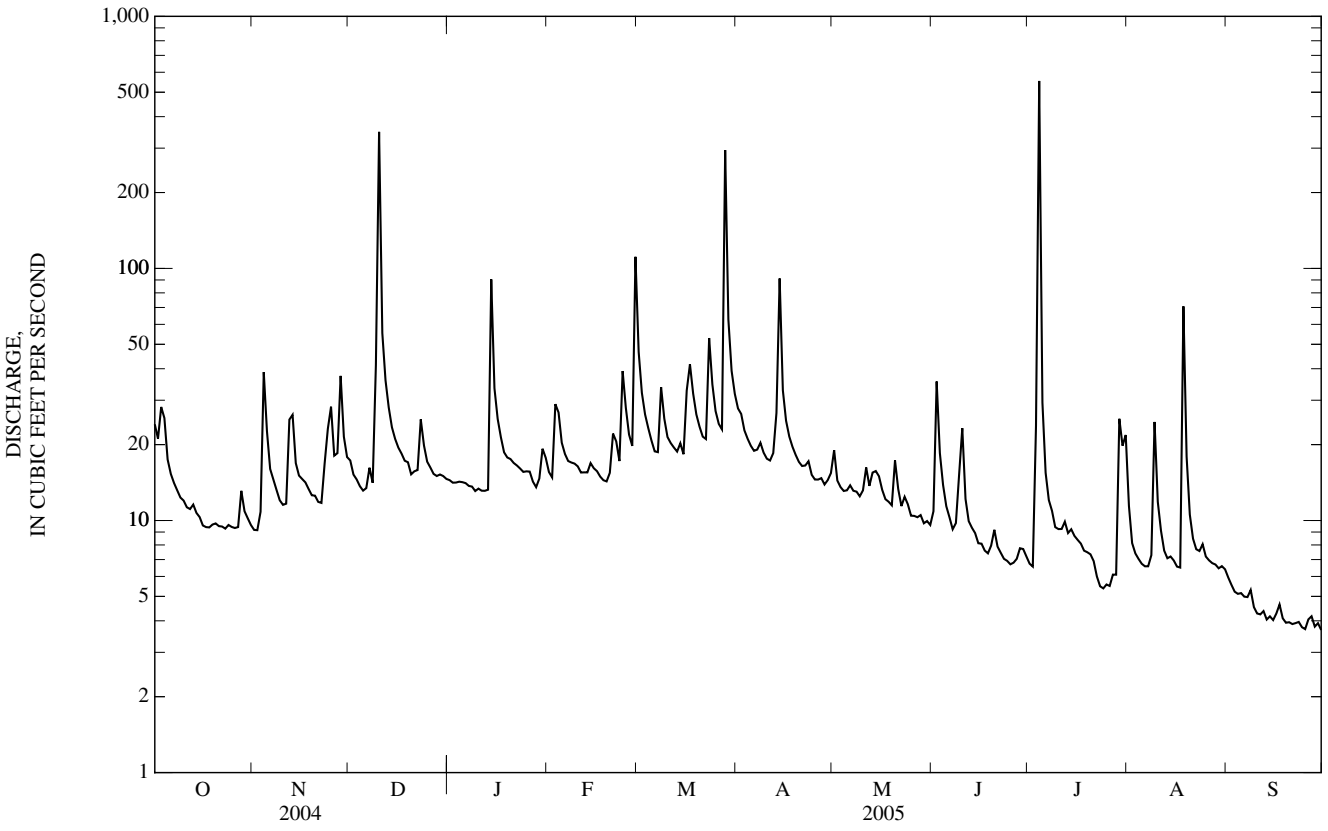
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	10.3	14.5	25.4	14.1	25.4	41.6	48.5	40.3	33.6	24.3	14.4	32.8
MAX	13.6	17.6	30.5	18.7	29.8	69.2	102	94.2	73.3	32.3	27.8	56.7
(WY)	(2004)	(2005)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	4.45	12.8	15.4	10.9	22.4	18.5	21.7	12.8	10.6	12.3	4.92	4.39
(WY)	(2003)	(2003)	(2004)	(2003)	(2005)	(2004)	(2004)	(2005)	(2005)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	7,343.6		6,928.4			
ANNUAL MEAN	20.1		19.0		27.0	
HIGHEST ANNUAL MEAN					43.7	2003
LOWEST ANNUAL MEAN					18.5	2004
HIGHEST DAILY MEAN	916	Sep 28	554	Jul 4	1,220	Apr 10, 2003
LOWEST DAILY MEAN	2.9	Aug 28	3.7	Sep 25	0.42	Oct 5, 2002
ANNUAL SEVEN-DAY MINIMUM	3.2	Aug 23	3.9	Sep 19	0.53	Oct 2, 2002
MAXIMUM PEAK FLOW			2,130	Jul 4	2,220	Apr 10, 2003
MAXIMUM PEAK STAGE			12.91	Jul 4	12.98	Sep 28, 2004
INSTANTANEOUS LOW FLOW			3.4	Sep 30	0.30	Oct 5, 2002
ANNUAL RUNOFF (CFSM)	0.884		0.836		1.19	
ANNUAL RUNOFF (INCHES)	12.03		11.35		16.19	
10 PERCENT EXCEEDS	26		27		37	
50 PERCENT EXCEEDS	13		14		14	
90 PERCENT EXCEEDS	6.7		6.1		5.9	

e Estimated.

0212419274 CODDLE CREEK AT SECONDARY ROAD 1612 NEAR DAVIDSON, NC—Continued



0212427947 REEDY CREEK AT SECONDARY ROAD 2803 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°15'23", long 80°42'02", Mecklenburg County, Hydrologic Unit 03040105, on right downstream wingwall on Secondary Road 2803, 3.8 mi southeast of the University of North Carolina at Charlotte.

DRAINAGE AREA.--2.50 mi^2.

PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 637.45 ft, North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records poor. No flow also occurred July 31, Aug. 1, 7, 10, 11, 2002. Minimum discharge for current water year also occurred Sept. 24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.0	0.39	1.2	1.2	1.5	5.4	5.2	2.5	3.5	e40	3.7	0.68
2	1.4	0.40	1.0	1.2	1.5	3.2	4.8	1.4	13	7.7	2.0	0.68
3	1.3	0.43	0.94	1.2	5.1	e2.5	3.4	1.4	3.3	9.2	1.9	0.67
4	1.1	4.6	0.90	1.2	e2.9	2.0	2.8	1.4	1.9	5.8	1.5	0.65
5	0.85	1.5	0.84	1.5	e2.3	1.7	2.6	1.3	1.5	2.0	1.2	0.65
6	0.75	0.88	2.1	1.4	e2.0	1.4	2.4	1.5	1.3	1.3	1.1	0.63
7	0.66	0.79	2.1	1.3	e1.9	1.7	2.7	1.4	1.2	15	1.1	0.65
8	0.60	0.70	1.3	1.2	e1.8	7.4	2.6	1.3	1.1	5.6	1.5	0.70
9	0.57	0.67	1.6	1.2	e1.8	2.9	2.1	1.2	1.1	3.0	1.9	0.63
10	0.51	0.66	11	1.2	e2.0	2.2	1.8	1.3	1.0	2.3	1.2	0.55
11	0.48	0.68	3.4	1.3	e1.7	1.9	1.8	1.5	0.93	3.7	1.0	0.47
12	0.52	1.9	2.3	1.3	e1.5	1.8	6.4	2.9	0.87	3.0	0.99	0.47
13	4.0	1.2	1.9	1.3	e1.5	1.8	13	3.2	0.86	2.0	7.4	0.48
14	0.83	0.79	1.6	13	e2.7	2.0	15	2.0	0.84	1.8	3.7	0.46
15	0.70	0.76	1.5	2.6	2.2	1.7	5.4	1.8	0.77	1.6	1.3	0.43
16	0.60	0.80	1.5	2.0	2.1	e4.6	3.7	1.7	0.76	1.5	1.1	1.7
17	0.56	0.79	1.5	1.8	2.0	e6.0	2.8	1.6	0.74	1.4	3.3	0.76
18	0.57	0.81	1.5	1.6	1.8	e3.7	2.2	1.7	0.69	4.4	1.4	0.43
19	0.60	0.79	1.6	1.6	1.7	e2.9	2.1	1.7	0.68	1.8	1.2	0.34
20	0.59	0.79	1.5	1.6	1.9	e2.4	2.1	3.6	0.66	0.88	1.1	0.32
21	0.55	0.77	1.4	1.5	2.9	e2.2	2.0	2.2	0.62	0.80	0.98	0.31
22	0.55	0.76	1.4	1.4	2.3	e3.6	2.2	1.6	0.56	12	1.1	0.32
23	0.52	1.1	2.9	1.4	2.0	9.6	2.4	1.4	0.51	3.3	0.97	0.32
24	0.66	2.3	1.7	1.7	e4.3	4.3	1.9	1.3	0.60	1.3	0.91	0.31
25	0.53	1.9	1.4	1.4	e2.6	3.1	1.8	1.2	0.72	1.1	0.85	0.32
26	0.50	0.97	1.3	1.6	e2.1	2.7	1.6	1.1	3.5	0.98	0.84	0.34
27	0.50	1.9	1.2	1.4	e2.2	2.8	1.6	1.2	1.3	0.89	0.81	0.35
28	0.71	3.4	1.2	1.3	18	22	1.5	1.1	3.2	1.2	0.80	0.32
29	0.56	1.3	1.2	1.4	---	6.3	1.5	1.1	1.4	5.0	0.73	0.34
30	0.85	1.1	1.2	2.4	---	4.0	1.8	1.3	2.0	17	0.79	0.35
31	0.45	---	1.2	1.7	---	6.8	---	1.3	---	16	0.77	---
TOTAL	25.57	35.83	57.38	57.9	78.3	126.6	103.2	51.2	51.11	173.55	49.14	15.63
MEAN	0.82	1.19	1.85	1.87	2.80	4.08	3.44	1.65	1.70	5.60	1.59	0.52
MAX	4.0	4.6	11	13	18	22	15	3.6	13	40	7.4	1.7
MIN	0.45	0.39	0.84	1.2	1.5	1.4	1.5	1.1	0.51	0.80	0.73	0.31
IN.	0.38	0.53	0.85	0.86	1.17	1.88	1.54	0.76	0.76	2.58	0.73	0.23

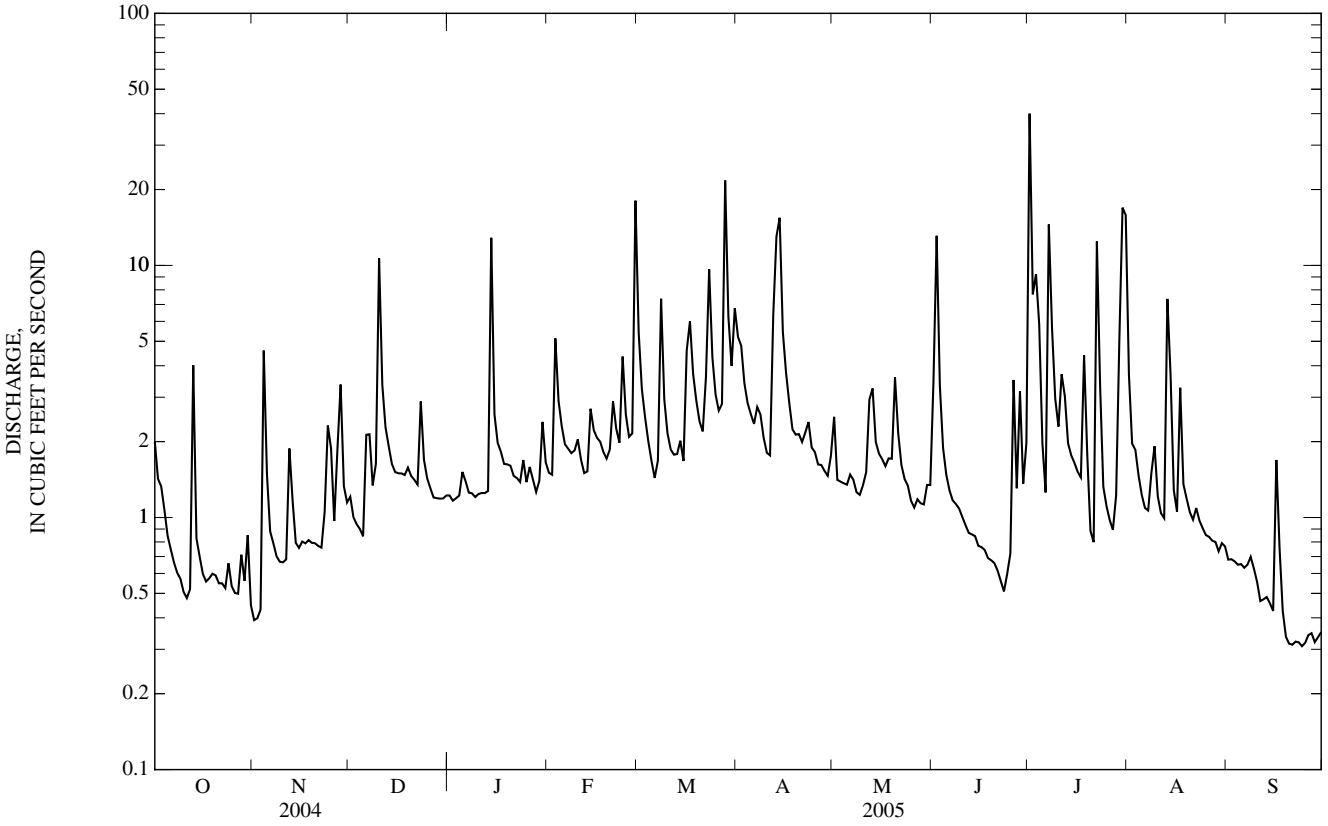
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.67	1.13	2.06	1.44	2.33	4.26	4.37	3.66	3.23	3.99	1.61	2.12
MAX	0.90	1.79	4.28	1.87	3.14	9.34	12.6	11.9	9.88	8.91	2.89	7.00
(WY)	(2004)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.23	0.77	0.52	1.01	0.97	1.52	0.48	0.19	0.08	0.04	0.07	0.04
(WY)	(2002)	(2002)	(2002)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

0212427947 REEDY CREEK AT SECONDARY ROAD 2803 NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	693.19		825.41			
ANNUAL MEAN	1.89		2.26		2.57	
HIGHEST ANNUAL MEAN					5.63	2003
LOWEST ANNUAL MEAN					0.56	2002
HIGHEST DAILY MEAN	75	Sep 28	40	Jul 1	150	Jul 17, 2003
LOWEST DAILY MEAN	0.19	Aug 10	0.31	Sep 21	0.00	Jul 30, 2002
ANNUAL SEVEN-DAY MINIMUM	0.31	Jul 4	0.32	Sep 19	0.01	Jul 27, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			7.81	Jul 1	8.13	Jul 17, 2003
INSTANTANEOUS LOW FLOW			0.26*	Sep 19	0.00*	Jul 30, 2002
ANNUAL RUNOFF (INCHES)	10.31		12.28		13.99	
10 PERCENT EXCEEDS	2.9		3.8		4.3	
50 PERCENT EXCEEDS	0.97		1.4		0.99	
90 PERCENT EXCEEDS	0.45		0.57		0.14	

* See REMARKS.
e Estimated.



0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC

LOCATION.--Lat 35°19'18", long 80°32'27", Cabarrus County, Hydrologic Unit 03040105, on left bank at end of maintenance road located within Rocky River Wastewater Treatment Facility, 0.40 mi above confluence with Irish Buffalo Creek, and 1.9 mi northeast of Rocky River.

DRAINAGE AREA.--278 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 494.26 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. A daily average of 14.2 ft^3/s of treated effluent from the Mallard Creek Wastewater Treatment Plant was discharged into the river approximately 7 mi upstream of the gaging station. A daily average of 4.2 ft^3/s of treated effluent from the Mooresville Wastewater Treatment Plant was discharged into the river approximately 15 mi upstream of the gaging station. Minimum discharge for period of record and current water year affected by regulation. Minimum discharge for period of record also occurred Aug. 14, 2002.

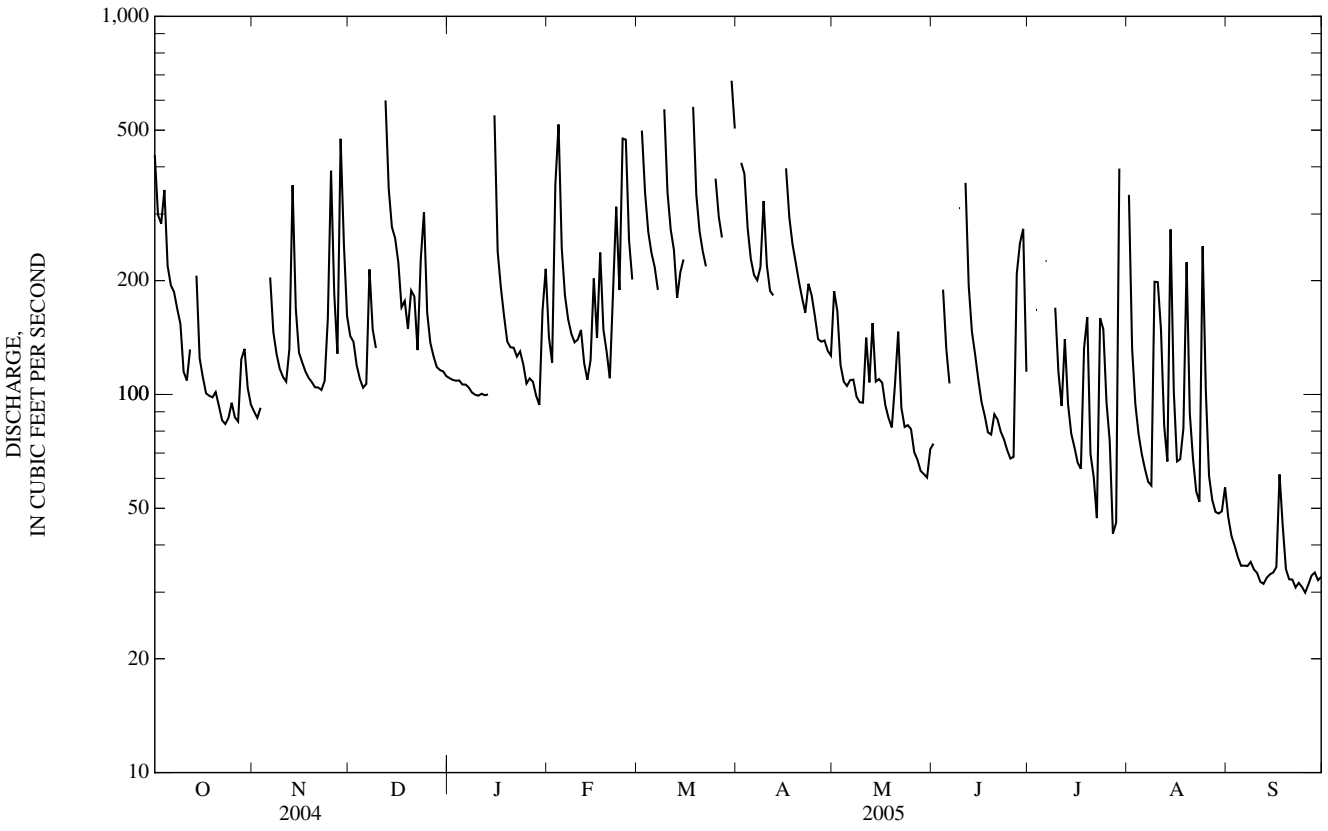
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	429	90	143	110	142	---	---	188	74	---	337	47
2	299	87	138	109	121	499	410	166	---	---	e132	42
3	283	92	120	109	359	342	384	120	---	167	94	40
4	347	---	110	109	518	269	276	108	189	---	79	37
5	219	---	104	106	244	237	228	105	132	---	70	35
6	195	204	107	106	183	217	207	109	107	225	64	35
7	187	146	214	104	158	189	200	109	---	---	59	35
8	169	128	149	101	145	---	217	99	---	---	57	36
9	154	117	133	100	137	568	325	95	311	170	199	34
10	115	111	---	99	140	343	220	95	---	114	198	34
11	109	108	---	100	148	273	188	141	363	93	148	32
12	132	132	599	100	121	241	183	108	194	140	83	32
13	---	358	350	100	109	180	---	154	147	94	66	33
14	206	169	277	---	123	210	---	108	128	79	273	33
15	125	129	259	547	203	228	---	110	109	73	102	34
16	111	122	223	238	141	---	396	107	95	66	66	35
17	101	115	170	192	237	---	295	93	88	64	67	61
18	99	111	177	161	149	576	250	87	79	133	81	45
19	98	108	149	138	130	337	224	82	78	160	224	35
20	101	104	188	133	110	270	199	107	89	70	89	32
21	93	104	182	133	186	239	180	147	86	61	68	32
22	85	103	131	126	314	218	165	92	80	47	55	31
23	84	109	228	e130	189	---	196	82	76	159	52	32
24	87	159	304	e120	475	---	183	83	71	e149	247	31
25	95	390	165	107	472	372	161	81	68	e95	102	30
26	87	185	137	110	256	295	140	70	68	e75	61	31
27	85	128	126	108	201	260	138	67	209	43	53	33
28	124	474	118	99	---	---	139	63	251	46	49	34
29	132	251	116	94	---	---	130	62	274	396	48	32
30	104	161	115	167	---	676	127	60	115	---	49	33
31	94	---	112	215	---	505	---	72	---	---	57	---

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
LOWEST DAILY MEAN	33	Jun 13	30	Sep 25	13	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	43	Jun 2	31	Sep 20	14	Aug 9, 2002
MAXIMUM PEAK STAGE			14.06	Mar 28	23.21	Apr 11, 2003
INSTANTANEOUS LOW FLOW			43	Sep 6	11*	Aug 13, 2002

* See REMARKS.
e Estimated.

0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued



0212433550 ROCKY RIVER ABOVE IRISH BUFFALO CREEK NEAR ROCKY RIVER, NC—Continued

PRECIPITATION RECORDS

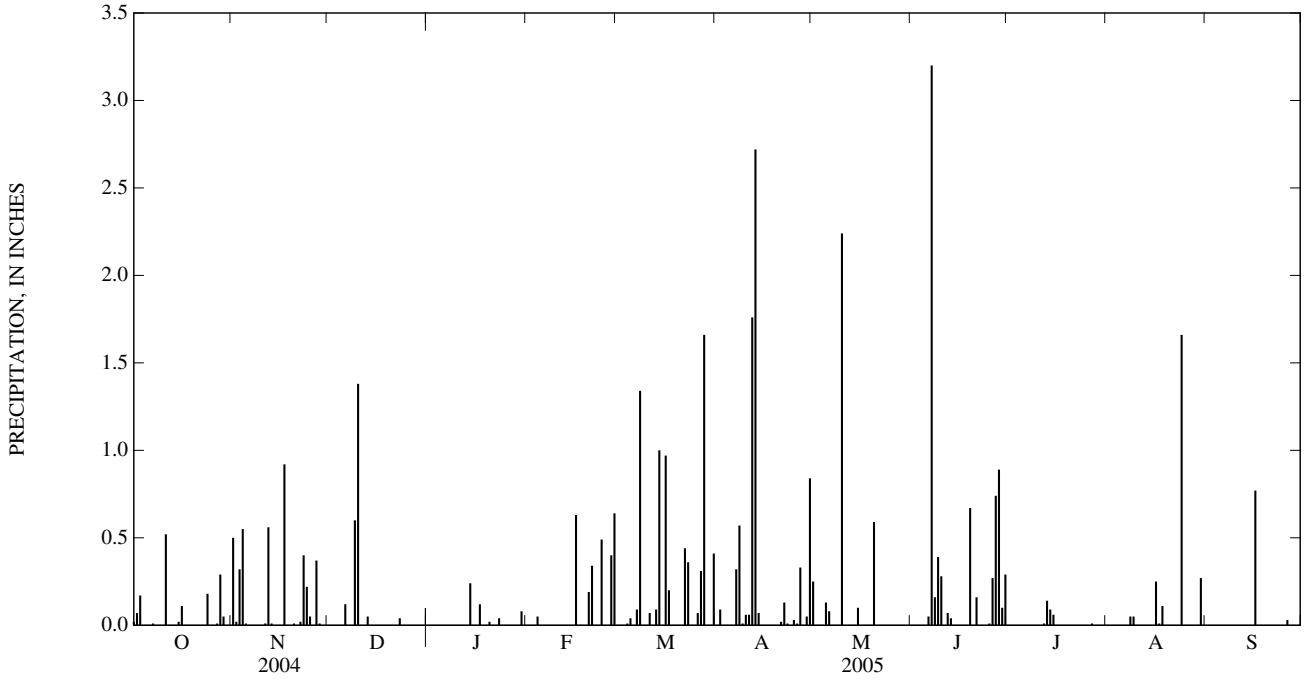
PERIOD OF RECORD.--August 2004 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.50	0.00	0.00	0.00	0.00	---	0.25	0.00	---	---	0.00
2	0.07	0.02	0.00	0.00	0.00	0.00	0.09	0.00	0.00	---	---	0.00
3	0.17	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
4	0.00	0.55	0.00	0.00	0.05	0.01	0.00	0.00	0.00	---	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.13	0.00	---	0.00	0.00
6	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.08	0.05	---	0.00	0.00
7	0.01	0.00	0.00	0.00	0.00	0.09	0.32	0.00	3.20	---	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	1.34	0.57	0.00	0.16	---	0.05	0.00
9	0.00	0.00	0.60	0.00	0.00	0.00	0.01	0.00	0.39	---	0.05	0.00
10	0.00	0.00	1.38	0.00	0.00	0.00	0.06	2.24	0.28	---	0.00	0.00
11	0.52	0.01	0.00	0.00	0.00	0.07	0.06	0.00	0.00	---	0.00	0.00
12	0.00	0.56	0.00	0.00	0.00	0.00	1.76	---	0.07	0.01	0.00	0.00
13	---	0.01	0.05	0.00	---	0.09	2.72	0.00	0.04	0.14	0.00	0.00
14	0.00	0.00	0.00	0.24	---	1.00	0.07	0.00	0.00	0.09	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.06	0.00	0.00
16	0.11	0.00	0.00	0.00	0.63	0.97	0.00	0.00	0.00	0.00	0.25	0.77
17	0.00	0.92	0.00	0.12	0.00	0.20	0.00	0.00	0.00	---	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.11	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	---	0.00	0.00
20	0.00	0.01	0.00	0.02	0.19	0.00	0.00	0.59	0.00	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.34	0.00	0.02	0.00	0.16	---	0.00	0.00
22	0.00	0.02	0.00	0.00	0.00	0.44	0.13	0.00	0.00	---	0.00	0.00
23	0.00	0.40	0.04	0.04	0.00	0.36	0.01	0.00	0.00	0.00	0.00	0.00
24	0.18	0.22	0.00	0.00	0.49	0.00	0.00	0.00	0.00	---	1.66	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.00	0.01	---	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.27	---	0.00	0.03
27	0.01	0.37	0.00	0.00	0.40	0.31	0.33	0.00	0.74	0.01	0.00	0.00
28	0.29	0.01	0.00	0.00	0.64	1.66	0.00	0.00	0.89	---	0.00	0.00
29	0.05	0.00	0.00	0.00	---	0.00	0.05	0.00	0.10	---	0.00	0.00
30	0.00	0.00	0.00	0.08	---	0.00	0.84	0.00	0.29	---	0.27	0.00
31	0.00	---	0.00	0.00	---	0.41	---	0.00	---	---	0.00	---
TOTAL	---	3.98	2.19	0.50	---	7.06	---	---	7.32	---	---	0.80



0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC

LOCATION.--Lat 35°12'30", long 80°34'48", Mecklenburg County, Hydrologic Unit 03040105, on right bank at wingwall on Secondary Road 3181, 4.25 mi northeast of Mint Hill.

DRAINAGE AREA.--12.6 mi^2.

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 558.29 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Oct. 9, 2002, Sept. 22, 2003. Minimum discharge for current water year also occurred Sept. 25, 26, 28-30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	7.3	6.0	3.7	10	29	16	7.4	5.0	2.6	6.2	0.86
2	7.4	6.8	5.4	3.6	10	18	e12	5.7	190	4.4	3.4	0.78
3	6.8	6.7	5.0	3.6	25	14	e9.4	5.1	18	2.8	2.8	0.69
4	6.8	14	4.6	3.6	19	13	8.6	4.8	10	2.7	2.4	0.61
5	6.9	9.0	4.4	3.5	14	12	7.7	4.9	7.8	2.4	2.2	0.62
6	6.8	6.0	4.6	3.5	12	10	7.2	5.2	48	2.2	2.1	0.68
7	6.7	5.5	5.7	3.3	11	10	7.0	4.8	23	5.7	2.0	0.65
8	6.7	5.4	4.6	3.3	11	29	7.2	4.5	8.2	4.6	1.9	0.59
9	6.7	5.0	4.3	3.4	11	16	7.2	4.2	6.4	2.8	2.0	0.68
10	6.5	4.8	18	3.4	10	12	7.0	4.1	5.8	2.4	1.9	0.72
11	6.4	5.0	10	3.3	10	11	7.0	5.0	4.9	2.4	1.7	0.51
12	6.3	7.0	6.7	3.1	9.8	9.7	25	7.5	4.7	2.2	1.6	0.43
13	56	8.1	5.7	3.0	9.7	9.0	84	8.6	4.7	1.9	1.5	0.41
14	e10	5.8	4.9	69	13	e8.7	67	4.9	4.9	2.1	1.8	0.43
15	e8.2	5.6	4.5	18	14	8.0	17	4.3	4.5	1.9	1.4	0.39
16	e6.8	5.4	e4.4	14	12	e29	12	4.1	3.6	1.9	1.1	0.46
17	e5.9	5.4	e4.4	12	11	47	9.9	3.8	3.3	1.8	1.0	0.69
18	e5.5	5.4	4.2	11	10	18	8.9	3.5	3.3	1.7	1.6	0.44
19	e5.4	5.1	4.2	11	10	13	8.0	3.5	3.2	1.6	1.3	0.36
20	e5.4	4.9	4.0	11	11	10	7.4	6.6	3.2	2.1	0.99	0.37
21	e5.5	4.7	3.8	10	15	8.7	6.9	4.3	3.1	1.6	0.88	0.39
22	5.5	4.6	3.9	9.9	e14	8.2	6.5	3.5	2.9	1.5	0.80	0.34
23	5.4	6.7	6.6	e9.8	12	23	6.6	3.4	2.6	1.5	0.84	0.29
24	5.7	6.6	5.3	e9.6	25	12	6.2	3.2	2.4	1.4	0.95	0.28
25	5.8	8.6	4.3	9.9	18	9.4	6.1	3.0	2.3	1.2	0.88	0.27
26	5.5	5.4	4.1	9.8	14	7.8	5.9	2.9	2.4	1.2	0.74	0.27
27	6.0	4.9	3.9	9.3	12	7.3	6.0	3.0	2.7	1.1	0.70	0.30
28	7.9	14	3.9	8.7	124	193	5.6	2.9	5.3	21	0.69	0.28
29	7.2	7.2	4.0	9.1	---	22	5.5	2.9	3.7	26	0.68	0.28
30	7.4	6.0	3.9	13	---	12	6.2	3.6	2.7	16	0.77	0.28
31	7.4	---	3.8	12	---	20	---	3.4	---	20	0.88	---
TOTAL	254.9	196.9	163.1	301.4	477.5	649.8	397.0	138.6	392.6	144.7	49.70	14.35
MEAN	8.22	6.56	5.26	9.72	17.1	21.0	13.2	4.47	13.1	4.67	1.60	0.48
MAX	56	14	18	69	124	193	84	8.6	190	26	6.2	0.86
MIN	5.4	4.6	3.8	3.0	9.7	7.3	5.5	2.9	2.3	1.1	0.68	0.27
CFSM	0.65	0.52	0.42	0.77	1.35	1.66	1.05	0.35	1.04	0.37	0.13	0.04
IN.	0.75	0.58	0.48	0.89	1.41	1.92	1.17	0.41	1.16	0.43	0.15	0.04

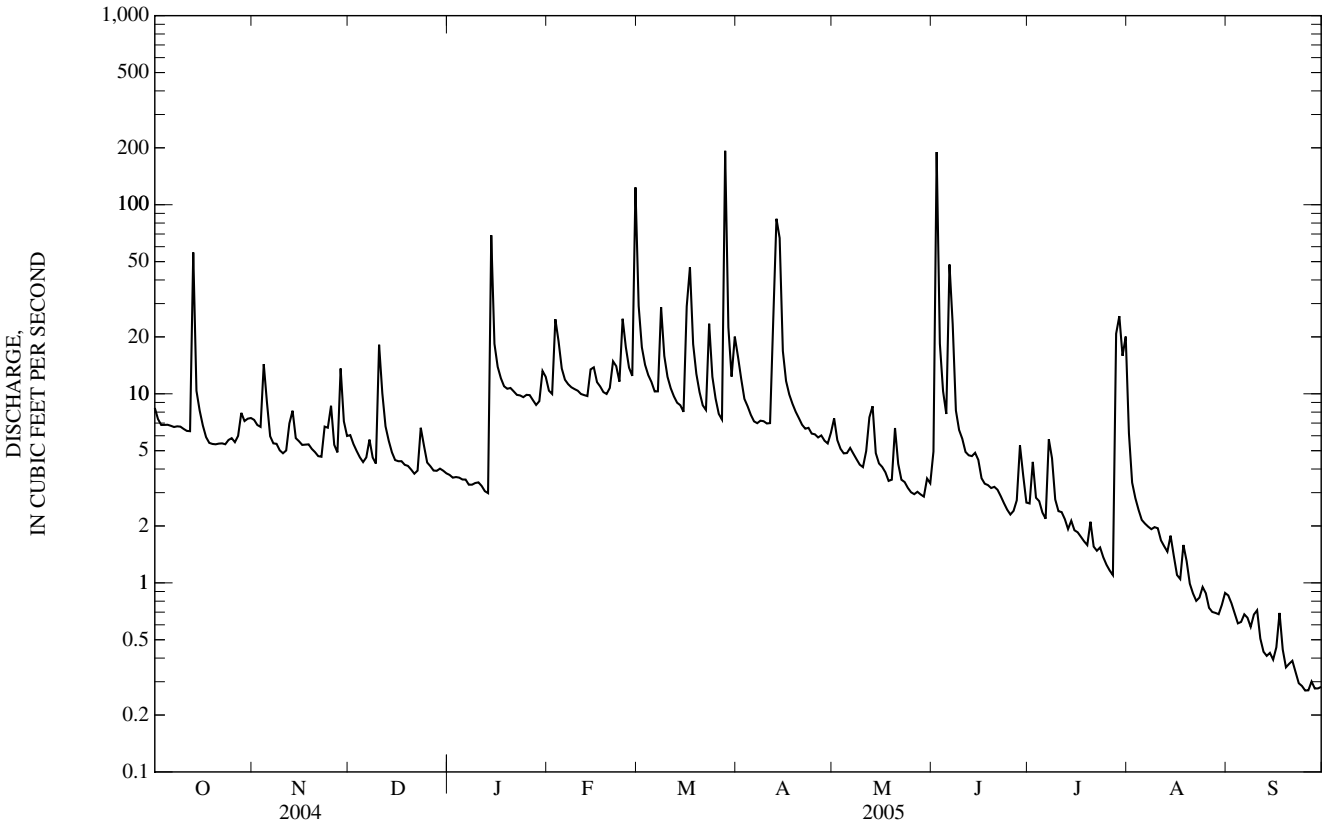
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	6.30	7.39	11.4	6.71	15.7	24.0	25.3	15.1	23.9	10.5	5.53	11.0
MAX	8.22	11.4	23.2	9.72	19.9	41.9	58.7	39.2	56.9	20.8	11.9	29.2
(WY)	(2005)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	3.90	4.17	5.26	3.70	10.2	9.15	3.89	1.69	1.88	4.67	1.60	0.48
(WY)	(2004)	(2004)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)

0212466000 CLEAR CREEK AT SECONDARY ROAD 3181 NEAR MINT HILL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005	
ANNUAL TOTAL	2,689.92		3,180.55			
ANNUAL MEAN	7.35		8.71		13.5	
HIGHEST ANNUAL MEAN					25.0	2003
LOWEST ANNUAL MEAN					6.81	2004
HIGHEST DAILY MEAN	348	Sep 28	193	Mar 28	646	Apr 10, 2003
LOWEST DAILY MEAN	0.59	Jul 16	0.27	Sep 25	0.20	Oct 9, 2002
ANNUAL SEVEN-DAY MINIMUM	0.80	May 29	0.28	Sep 24	0.28	Oct 3, 2002
MAXIMUM PEAK FLOW			936	Jun 2		
MAXIMUM PEAK STAGE			6.22	Jun 2	10.92	Sep 28, 2004
INSTANTANEOUS LOW FLOW			0.24*	Sep 24	0.13*	Oct 8, 2002
ANNUAL RUNOFF (CFSM)	0.583		0.692		1.07	
ANNUAL RUNOFF (INCHES)	7.94		9.39		14.57	
10 PERCENT EXCEEDS	9.0		14		20	
50 PERCENT EXCEEDS	3.9		5.4		4.8	
90 PERCENT EXCEEDS	1.0		0.85		1.2	

* See REMARKS.
e Estimated.



0212467595 GOOSE CREEK NEAR INDIAN TRAIL, NC

LOCATION.--Lat 35°07'30", long 80°36'10", Union County, Hydrologic Unit 03040105, on left upstream wingwall on Secondary Road 1525, 4.9 mi northwest of Indian Trail.

DRAINAGE AREA.--11.0 mi^2.

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 549.82 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at site.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year and period of record affected by regulation of unknown origin. Minimum discharge for period of record also occurred July 11, 2004.

REVISIONS.--The maximum discharge for the water year 2004 has been revised to 2,830 ft^3/s, Sept. 28, 2004, gage height, 9.64 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.4	2.8	3.3	3.6	3.3	21	22	6.2	5.3	3.8	5.1	1.5
2	5.7	2.7	2.9	3.6	3.0	10	16	3.7	484	4.0	3.6	1.3
3	12	2.8	2.8	3.6	32	7.1	11	3.4	23	3.6	3.1	1.0
4	6.3	11	2.7	3.6	12	5.8	8.4	3.6	12	3.7	2.9	1.1
5	3.9	4.6	2.6	3.7	5.7	5.2	7.2	3.2	7.8	3.5	2.8	0.94
6	6.6	2.6	4.3	3.8	4.5	4.7	6.3	3.5	6.3	3.4	2.8	1.1
7	6.0	2.5	5.2	3.7	4.1	4.6	6.5	3.2	8.0	38	2.6	0.96
8	3.5	2.4	3.1	3.7	4.0	40	6.4	3.1	7.2	e8.3	2.7	0.99
9	2.8	2.3	3.7	3.8	3.8	16	6.0	2.7	6.5	e4.0	2.7	0.96
10	2.8	2.3	31	3.8	3.6	12	4.8	3.3	9.7	e3.5	2.7	0.89
11	2.8	2.4	12	3.8	3.2	9.5	4.6	4.9	9.0	e3.1	2.4	0.97
12	2.7	4.8	5.6	3.8	3.2	5.2	14	7.2	4.2	e3.0	2.4	0.97
13	25	3.8	4.9	3.7	3.1	4.7	67	9.5	4.0	e4.3	2.4	0.92
14	3.8	2.5	8.0	100	11	4.6	86	3.4	4.0	3.7	6.5	0.91
15	3.2	2.4	7.3	10	7.7	4.2	18	3.1	4.7	2.9	3.9	0.97
16	3.0	2.4	7.0	5.6	4.7	46	11	2.9	3.6	2.8	2.9	0.95
17	2.9	2.4	4.0	4.4	4.1	49	8.5	2.6	3.4	2.7	2.3	1.0
18	2.9	2.4	3.7	3.7	3.6	15	7.4	2.5	3.2	2.5	16	1.3
19	3.0	2.4	3.6	3.4	3.4	9.5	6.4	2.5	3.1	2.3	3.4	2.4
20	3.0	2.5	3.5	3.5	7.6	7.3	5.8	26	3.0	3.8	2.0	2.7
21	2.9	2.5	3.5	3.2	20	6.1	4.7	4.7	2.8	5.8	1.8	2.1
22	2.9	2.5	3.5	3.0	13	6.9	4.4	3.3	2.8	4.1	1.6	1.1
23	2.9	7.2	5.1	2.9	5.1	29	4.5	3.0	2.7	2.7	1.6	1.2
24	3.1	4.1	4.1	2.7	27	11	4.1	2.6	2.6	2.1	1.9	1.1
25	3.1	4.6	3.7	2.7	10	7.2	3.9	2.4	2.6	2.0	1.6	1.2
26	2.9	2.7	3.6	2.7	6.0	6.2	3.8	2.3	3.2	1.9	1.5	1.3
27	2.9	2.8	3.6	2.6	5.2	6.1	3.8	2.3	3.9	1.8	2.3	1.4
28	3.0	22	3.5	2.4	129	178	3.3	2.2	21	47	1.6	1.3
29	3.0	3.6	3.5	2.7	---	21	3.3	2.2	5.4	29	2.3	1.2
30	2.9	3.0	3.6	7.5	---	12	4.2	3.4	4.1	37	2.1	1.3
31	2.9	---	3.6	4.5	---	41	---	2.8	---	16	2.1	---
TOTAL	139.8	119.0	162.5	215.7	342.9	605.9	363.3	131.7	663.1	256.3	95.6	37.03
MEAN	4.51	3.97	5.24	6.96	12.2	19.5	12.1	4.25	22.1	8.27	3.08	1.23
MAX	25	22	31	100	129	178	86	26	484	47	16	2.7
MIN	2.7	2.3	2.6	2.4	3.0	4.2	3.3	2.2	2.6	1.8	1.5	0.89
CFSM	0.41	0.36	0.48	0.63	1.11	1.78	1.10	0.39	2.01	0.75	0.28	0.11
IN.	0.47	0.40	0.55	0.73	1.16	2.05	1.23	0.45	2.24	0.87	0.32	0.13

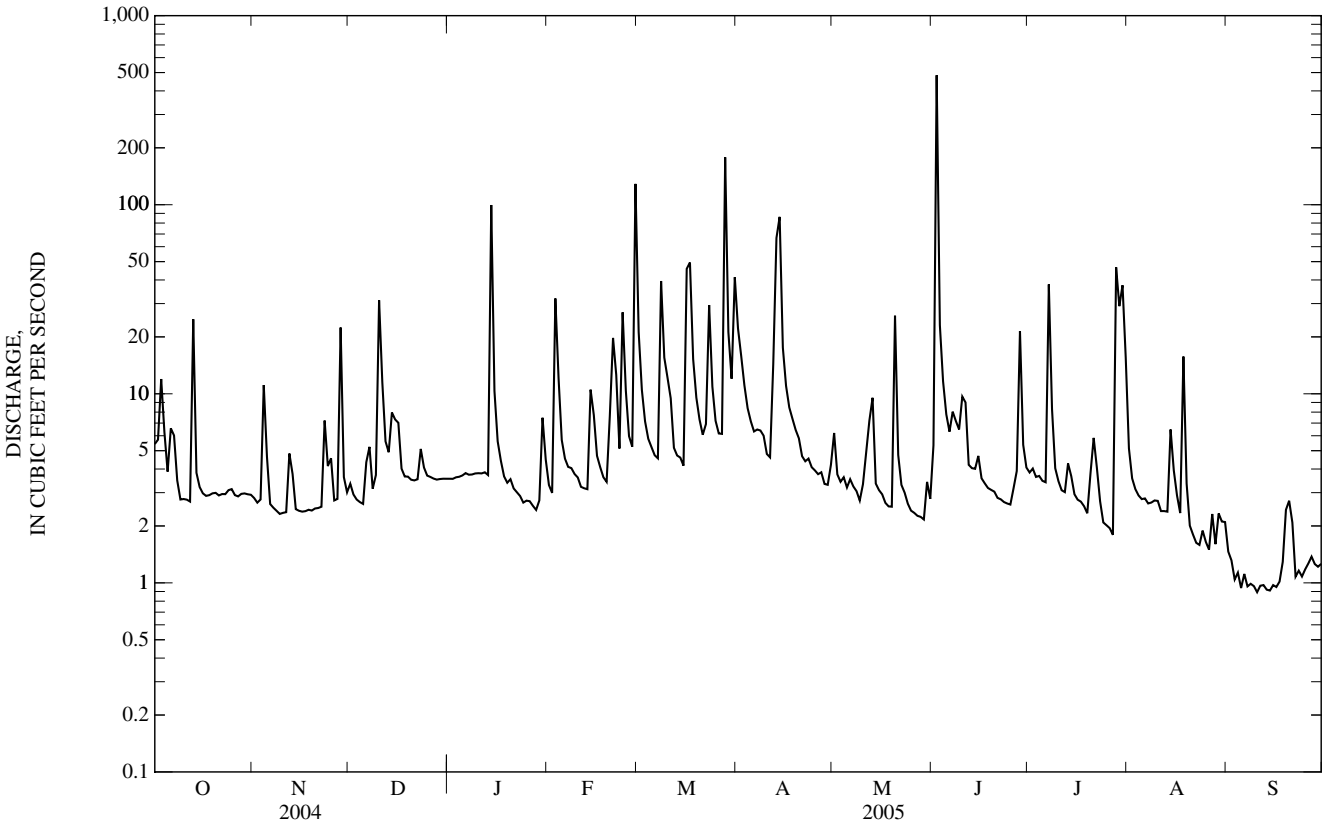
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	3.96	3.52	4.95	5.27	11.2	14.2	8.54	3.24	13.5	5.71	5.03	22.0
MAX	4.51	3.97	5.24	6.96	12.2	19.5	12.1	4.25	22.1	8.27	6.97	42.7
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)
MIN	3.41	3.08	4.66	3.59	10.2	8.82	4.97	2.24	4.86	3.16	3.08	1.23
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)

0212467595 GOOSE CREEK NEAR INDIAN TRAIL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	3,062.93		3,132.83			
ANNUAL MEAN	8.37		8.58		8.37	
HIGHEST ANNUAL MEAN					8.58	2005
LOWEST ANNUAL MEAN					8.15	2004
HIGHEST DAILY MEAN	484	Sep 28	484	Jun 2	484	Sep 28, 2004
LOWEST DAILY MEAN	0.72	Jul 10	0.89	Sep 10	0.72	Jul 10, 2004
ANNUAL SEVEN-DAY MINIMUM	1.1	Jun 1	0.94	Sep 10	0.94	Sep 10, 2005
MAXIMUM PEAK FLOW			2,290	Jun 2	2,830	Sep 28, 2004
MAXIMUM PEAK STAGE			8.92	Jun 2	9.64	Sep 28, 2004
INSTANTANEOUS LOW FLOW			0.69*	Sep 5	0.54*	Jul 10, 2004
ANNUAL RUNOFF (CFSM)	0.761		0.780		0.761	
ANNUAL RUNOFF (INCHES)	10.36		10.59		10.34	
10 PERCENT EXCEEDS	9.9		12		11	
50 PERCENT EXCEEDS	3.4		3.6		3.5	
90 PERCENT EXCEEDS	1.4		2.0		1.6	

* See REMARKS.
e Estimated.



02124692 GOOSE CREEK AT FAIRVIEW, NC

LOCATION.--Lat 35°09'13", long 80°32'07", Union County, Hydrologic Unit 03040105, on right bank at downstream side of culvert on U.S. Highway 601, 1.0 mi north of Fairview, and 2.0 mi above Duck Creek.

DRAINAGE AREA.--24.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1999 to current year.

REVISED RECORDS.--WSP 822: Drainage area. WSP 852: 1935-37(m). WDR NC-03-1B: 2000(M), 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 472.67 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records good except those for estimated discharges, which are poor. Maximum peak stage for current water year and period of record from crest-stage gage. Minimum discharge for current water year affected by regulation of unknown origin. No flow also occurred Aug. 12, 13, 14, 15, 16, 2002. Minimum discharge for current water year also occurred Sept. 12, 23, 24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	4.5	9.7	5.4	7.7	54	68	9.0	3.0	2.7	8.1	1.8
2	12	3.9	8.2	5.4	6.3	23	37	5.7	e1,400	3.3	4.4	1.3
3	30	3.4	6.9	5.2	80	16	23	4.2	71	2.9	3.0	1.2
4	23	13	6.3	5.1	44	12	17	4.5	23	3.0	2.6	0.84
5	10	14	5.9	5.1	17	11	14	3.9	13	2.7	2.1	0.97
6	9.3	4.8	6.9	5.2	12	9.0	12	4.0	9.0	2.8	2.0	0.82
7	9.5	3.9	17	5.1	9.9	8.3	11	3.9	9.2	58	2.0	0.98
8	7.3	3.3	11	5.2	8.8	67	11	3.7	9.3	31	1.9	0.96
9	4.2	3.2	13	5.6	8.4	28	10	3.4	9.0	5.8	2.1	0.56
10	4.1	3.2	155	5.3	7.8	18	8.5	2.9	9.4	3.7	2.4	0.34
11	3.8	3.3	39	4.8	6.4	15	7.5	5.7	12	3.2	1.9	0.27
12	3.6	5.0	18	4.7	5.7	10	11	5.4	5.4	3.2	1.6	0.31
13	27	9.0	13	4.7	5.7	8.7	134	10	4.2	2.8	2.0	0.75
14	9.7	4.5	13	291	11	8.6	182	5.1	4.1	4.3	2.2	0.72
15	5.6	3.6	12	38	21	7.8	38	3.3	3.7	2.8	7.4	0.91
16	4.2	3.5	12	18	11	93	19	3.2	4.4	2.3	2.8	0.77
17	3.5	3.4	9.5	11	8.7	150	14	3.0	3.0	2.2	1.8	1.2
18	3.6	3.5	7.4	8.4	7.3	38	12	2.9	2.8	2.1	13	1.3
19	3.7	3.5	6.9	7.2	6.3	21	11	2.8	2.8	1.9	6.6	2.1
20	3.7	3.5	6.2	7.4	8.0	15	9.2	26	2.7	3.2	2.5	3.6
21	3.7	3.7	6.0	7.0	31	12	7.8	7.6	2.4	4.0	1.9	3.2
22	3.4	4.0	6.0	6.3	32	11	6.7	4.0	2.1	5.7	1.7	1.4
23	3.5	14	8.8	5.9	14	44	7.2	3.1	2.0	2.7	1.5	0.36
24	3.7	13	9.4	4.8	48	23	6.4	2.8	2.0	1.8	1.7	0.30
25	4.0	13	6.7	5.0	26	14	5.7	2.5	1.9	1.1	1.8	0.39
26	3.8	7.1	6.2	5.1	14	11	5.2	2.4	1.9	1.4	1.6	0.48
27	3.6	5.7	5.7	4.5	12	11	5.2	2.4	3.8	1.3	1.8	0.76
28	4.1	50	5.5	3.9	354	e500	4.8	2.3	26	19	2.0	0.60
29	3.9	15	5.6	e3.9	---	60	4.6	2.3	10	56	1.7	0.64
30	4.1	9.7	5.8	e12	---	26	4.7	2.5	3.6	57	2.5	0.67
31	4.5	---	5.3	13	---	89	---	3.8	---	25	2.5	---
TOTAL	232.1	235.2	447.9	519.2	824.0	1,414.4	707.5	148.3	1,656.7	318.9	93.1	30.50
MEAN	7.49	7.84	14.4	16.7	29.4	45.6	23.6	4.78	55.2	10.3	3.00	1.02
MAX	30	50	155	291	354	500	182	26	1,400	58	13	3.6
MIN	3.4	3.2	5.3	3.9	5.7	7.8	4.6	2.3	1.9	1.1	1.5	0.27
CFSM	0.31	0.33	0.60	0.70	1.23	1.90	0.98	0.20	2.30	0.43	0.13	0.04
IN.	0.36	0.36	0.69	0.80	1.28	2.19	1.10	0.23	2.57	0.49	0.14	0.05

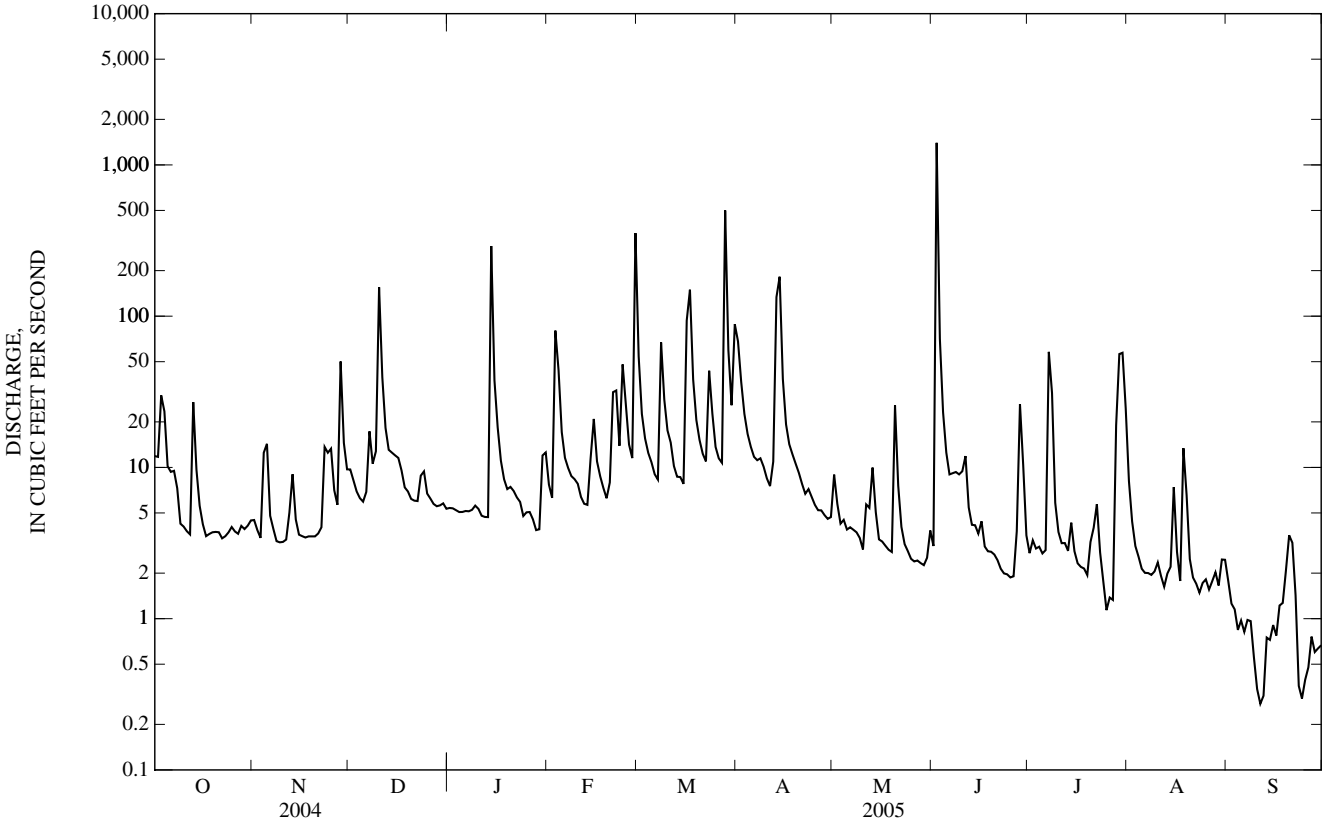
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	5.42	8.99	16.1	16.5	32.4	41.5	31.5	12.6	22.2	12.7	8.91	18.1
MAX	12.3	33.6	59.1	33.1	60.4	111	133	59.2	55.4	57.8	31.0	87.7
(WY)	(2003)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.70	0.91	2.99	3.74	7.02	15.7	5.82	2.09	0.75	1.49	0.54	1.02
(WY)	(2001)	(2002)	(2001)	(2004)	(2001)	(2000)	(2001)	(2004)	(2002)	(2001)	(2001)	(2005)

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	6,192.56		6,627.80			
ANNUAL MEAN	16.9		18.2		20.0	
HIGHEST ANNUAL MEAN					52.4	2003
LOWEST ANNUAL MEAN					6.25	2001
HIGHEST DAILY MEAN	1,180	Sep 28	1,400	Jun 2	1,510	Mar 20, 2003
LOWEST DAILY MEAN	0.22	Jun 8	0.27	Sep 11	0.00	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	0.48	Jun 2	0.50	Sep 23	0.01	Aug 10, 2002
MAXIMUM PEAK FLOW			2,820	Jun 2	3,090	Sep 28, 2004
MAXIMUM PEAK STAGE			10.03*	Jun 2	10.40*	Sep 28, 2004
INSTANTANEOUS LOW FLOW			0.20*	Sep 11	0.00*	Aug 11, 2002
ANNUAL RUNOFF (CFSM)	0.705		0.757		0.835	
ANNUAL RUNOFF (INCHES)	9.60		10.27		11.35	
10 PERCENT EXCEEDS	18		26		33	
50 PERCENT EXCEEDS	4.3		5.4		3.7	
90 PERCENT EXCEEDS	1.2		1.8		0.55	

* See REMARKS.
e Estimated.



02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1999 to current year.
pH: November 1999 to current year.
WATER TEMPERATURE: November 1999 to current year.
DISSOLVED OXYGEN: November 1999 to current year.
DISSOLVED OXYGEN, PERCENT SATURATION: November 1999 to current year.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from November 1999 to current year, optical backscatterance sensor from April 2000 to current year.

REMARKS.--Station operated in cooperation with North Carolina Department of Transportation to characterize water-quality and suspended sediment concentrations in the Goose Creek basin. Dissolved oxygen, percent saturation, computed using barometric pressure of 747 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	414, April 25, 2001	38, April 10, 2003
pH, standard units	9.1, March 24, 2004	0.4, February 8, 2005
WATER TEMPERATURE, °C	28.4, July 27, 2005	0.0, January 24, 25, 2003
DISSOLVED OXYGEN, mg/L	14.9, January 25, 28, 2003	2.5, August 24, 2002
DISSOLVED OXYGEN, PERCENT SATURATION,%	118, March 29, 2003, January 13, 2005	29, October 26, 2001

EXTREMES FOR CURRENT YEAR.--Extremes listed below may have been exceeded during periods of missing record.

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	357, September 22	43, June 2
pH, standard units	8.9, June 27	0.4, February 8
WATER TEMPERATURE, °C	28.4, July 27	0.1, January 24
DISSOLVED OXYGEN, mg/L	14.0, January 19	3.4, September 27
DISSOLVED OXYGEN, PERCENT SATURATION,%	118, January 13	40, September 27, 28

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
JUN				
02...	0934	2,540	359	2,460
02...	0940	2,530	313	2,140
02...	1115	2,650	165	1,180
JUL				
07...	1845	88	1,200	284
07...	1900	88	1,010	241
07...	1915	74	921	184
07...	1930	64	581	100
07...	1945	58	452	71

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	139	131	135	221	218	220	217	192	199	200	195	198
2	140	136	138	221	218	220	216	198	203	201	199	200
3	205	137	149	219	218	218	205	202	204	201	197	200
4	149	139	144	284	211	228	204	201	203	199	195	197
5	157	144	152	269	210	227	202	199	201	202	196	198
6	163	155	159	210	192	197	204	198	202	205	199	201
7	---	---	---	192	190	191	233	203	214	206	199	201
8	143	138	141	205	191	197	209	198	202	205	198	202
9	155	141	147	202	198	201	237	195	205	208	199	202
10	163	155	160	209	192	204	237	136	160	209	197	202
11	183	163	171	210	196	204	162	150	157	197	189	193
12	200	183	192	216	187	204	172	162	166	200	190	194
13	248	128	186	246	188	219	175	172	174	205	194	198
14	146	129	138	218	184	205	179	174	176	202	106	138
15	160	145	152	204	186	193	176	148	160	147	128	139
16	169	159	165	187	169	183	153	145	150	157	147	150
17	180	167	173	200	181	193	154	151	153	161	157	160
18	184	179	181	216	191	211	162	154	160	171	160	167
19	191	184	188	217	211	214	183	162	171	180	170	174
20	198	191	196	212	210	211	188	182	184	182	177	179
21	208	198	204	211	208	210	191	188	189	187	182	186
22	207	206	206	209	208	208	195	189	193	187	183	184
23	207	206	206	258	202	225	207	195	201	186	184	185
24	206	201	203	228	218	224	206	197	201	187	184	186
25	202	200	201	231	212	220	197	191	193	195	186	191
26	203	202	203	212	204	209	196	191	192	200	189	195
27	205	202	204	204	194	199	199	193	196	199	194	196
28	209	201	205	248	164	186	198	193	196	194	187	190
29	215	208	210	181	167	174	200	194	198	---	---	---
30	218	215	216	193	181	187	203	199	200	---	---	---
31	219	217	218	---	---	---	201	194	199	237	189	203
MONTH	---	---	---	284	164	206	237	136	187	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	256	229	241	---	---	---	122	102	113	175	171	173
2	248	213	230	---	---	---	138	122	132	173	168	170
3	213	140	186	---	---	---	136	131	133	173	159	165
4	155	143	150	---	---	---	142	134	137	174	161	166
5	163	155	158	---	---	---	146	142	144	179	173	176
6	167	163	166	---	---	---	---	---	---	180	176	178
7	176	167	173	---	---	---	---	---	---	179	173	175
8	183	174	178	177	113	146	159	151	154	183	178	180
9	189	179	182	126	114	120	162	155	157	184	182	183
10	187	182	185	130	126	128	159	154	156	185	180	182
11	186	182	184	136	129	133	164	153	157	192	185	188
12	185	184	184	140	135	138	167	152	161	202	183	196
13	186	182	184	153	138	144	169	82	112	183	128	146
14	200	179	187	167	152	158	134	92	104	128	126	127
15	200	165	176	169	157	163	116	103	111	128	125	126
16	169	162	165	193	123	159	125	116	121	143	128	136
17	165	162	163	128	117	120	132	125	128	160	142	151
18	175	162	166	133	122	129	136	126	133	180	159	172
19	182	175	178	146	133	140	143	131	139	189	180	186
20	185	180	182	150	141	145	147	140	144	201	114	162
21	190	155	180	153	150	151	150	142	146	131	125	127
22	155	149	153	161	150	157	151	147	149	141	130	136
23	161	153	157	179	132	156	160	151	154	154	141	149
24	188	149	165	135	129	132	162	158	160	169	154	161
25	155	148	151	147	135	142	165	149	162	172	169	170
26	162	148	158	154	147	150	168	162	165	183	172	179
27	173	150	165	164	154	159	176	164	172	191	183	187
28	---	---	---	184	83	118	175	171	173	197	190	193
29	---	---	---	124	105	116	175	171	172	203	196	200
30	---	---	---	137	124	130	174	172	173	203	199	201
31	---	---	---	157	100	133	---	---	---	207	203	205
MONTH	---	---	---	---	---	---	---	---	---	207	114	169

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	207	196	204	146	131	138	---	---	---	238	227	233
2	210	43	106	170	146	155	---	---	---	238	232	236
3	129	93	118	186	170	177	---	---	---	232	222	227
4	135	129	133	190	186	189	172	157	163	223	219	221
5	138	132	134	192	185	187	182	172	177	219	217	218
6	141	138	140	202	192	198	191	182	187	219	216	217
7	148	139	144	205	85	184	---	---	---	219	217	218
8	151	137	148	115	92	105	206	198	203	224	219	221
9	152	142	148	126	112	120	207	205	206	229	224	225
10	148	142	145	138	126	132	216	207	210	231	227	229
11	149	128	136	161	138	149	223	215	219	235	231	233
12	134	127	129	---	---	---	224	220	222	239	235	236
13	135	127	129	---	---	---	226	216	223	248	239	242
14	160	135	148	214	202	210	234	194	208	252	247	249
15	178	160	170	224	201	210	243	225	230	257	252	253
16	180	176	178	201	186	195	225	169	201	260	256	257
17	185	180	183	187	181	183	---	---	---	266	259	262
18	183	168	178	202	184	193	202	126	169	275	265	269
19	176	166	170	209	202	206	126	107	114	288	275	282
20	182	176	180	216	209	213	137	122	131	330	288	311
21	191	182	188	234	199	219	151	137	144	356	330	344
22	197	190	193	234	188	204	166	151	158	357	354	356
23	196	173	186	188	151	165	184	165	173	355	351	353
24	201	174	189	154	150	151	202	184	193	352	349	350
25	208	200	204	155	144	154	214	202	209	350	344	347
26	213	208	210	156	152	154	224	213	218	345	340	342
27	220	212	216	181	156	167	238	222	229	342	339	340
28	219	105	191	214	76	187	240	237	239	341	331	336
29	117	105	110	103	76	92	239	235	237	332	321	326
30	131	117	122	129	72	94	245	238	241	321	311	316
31	---	---	---	127	94	116	241	225	230	---	---	---
MONTH	220	43	161	---	---	---	---	---	---	357	216	275

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.0	7.0	7.0	7.0	6.8	6.9	7.8	7.4	7.6	7.7	7.4	7.5
2	7.1	7.0	7.0	7.2	6.9	7.1	7.8	7.5	7.7	7.8	7.4	7.6
3	7.2	7.0	7.1	7.1	7.0	7.0	7.6	7.5	7.6	7.8	7.4	7.6
4	7.2	7.1	7.1	7.1	7.0	7.0	7.5	7.4	7.5	7.8	7.4	7.6
5	7.3	7.1	7.2	7.2	7.1	7.2	7.5	7.3	7.4	7.8	7.4	7.6
6	7.4	7.2	7.3	7.3	7.2	7.3	7.4	7.2	7.3	7.7	7.4	7.5
7	---	---	---	7.3	7.2	7.3	7.2	7.1	7.2	7.8	7.3	7.5
8	7.4	7.3	7.3	7.3	7.2	7.3	7.2	7.0	7.1	7.6	7.3	7.4
9	7.4	7.2	7.3	7.3	7.3	7.3	7.1	7.0	7.0	7.7	7.3	7.5
10	7.3	7.2	7.2	7.3	7.3	7.3	7.2	6.6	6.8	7.8	7.2	7.5
11	7.2	7.1	7.2	7.3	7.3	7.3	6.8	6.6	6.7	7.8	7.2	7.5
12	7.2	7.0	7.1	7.3	7.2	7.3	6.8	6.6	6.7	7.9	7.2	7.6
13	7.1	6.9	7.0	7.4	7.2	7.3	6.8	6.6	6.7	8.0	7.3	7.6
14	7.1	6.8	6.9	7.4	7.3	7.3	6.8	6.6	6.7	7.6	6.6	6.8
15	7.1	7.0	7.0	7.4	7.3	7.3	6.8	6.7	6.8	7.1	6.7	6.9
16	7.2	7.0	7.1	7.4	7.3	7.3	6.7	6.0	6.5	7.0	6.9	6.9
17	7.0	7.0	7.0	7.4	7.3	7.4	6.7	6.5	6.6	7.0	6.8	6.9
18	7.0	6.9	6.9	7.4	7.3	7.3	6.7	6.5	6.6	7.4	6.9	7.0
19	6.9	6.8	6.9	7.3	7.0	7.2	6.8	6.6	6.7	7.4	7.1	7.3
20	6.9	6.7	6.8	7.2	7.0	7.1	7.3	6.8	6.9	7.3	7.1	7.2
21	7.0	6.7	6.8	7.1	6.8	6.9	7.0	6.9	7.0	7.1	6.9	7.0
22	7.0	6.9	6.9	7.2	6.9	7.0	7.1	6.9	7.0	6.9	6.8	6.9
23	7.1	7.0	7.0	7.0	6.7	6.8	7.1	7.0	7.0	7.3	6.8	6.9
24	7.1	7.0	7.1	7.0	6.9	7.0	7.3	7.0	7.2	7.3	7.2	7.3
25	7.1	6.9	7.0	7.1	6.9	7.0	7.4	7.1	7.2	7.3	7.2	7.2
26	7.1	6.9	7.0	7.3	7.0	7.2	7.4	7.2	7.3	7.3	7.1	7.2
27	7.2	6.9	7.0	7.3	7.2	7.3	7.5	7.2	7.4	7.2	7.1	7.1
28	7.0	6.8	6.9	7.4	7.2	7.2	7.5	7.3	7.4	7.3	7.0	7.1
29	6.9	6.8	6.9	7.4	7.1	7.3	7.6	7.3	7.5	---	---	---
30	7.0	6.8	6.9	7.6	7.4	7.5	7.6	7.3	7.5	---	---	---
31	7.0	6.8	6.9	---	---	---	7.6	7.4	7.5	7.1	6.8	7.0
MONTH	---	---	---	7.6	6.7	7.2	7.8	6.0	7.1	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	6.8	7.0	7.1	6.9	7.0	7.2	6.7	7.0	7.1	7.0	7.0
2	7.5	7.1	7.3	7.2	7.0	7.1	7.3	7.1	7.2	7.2	7.0	7.1
3	7.3	6.9	7.1	7.2	7.1	7.2	7.4	7.3	7.3	7.1	7.0	7.0
4	7.0	6.9	7.0	7.3	7.2	7.2	7.4	7.2	7.3	7.1	7.0	7.0
5	7.0	6.9	7.0	7.3	7.2	7.2	7.4	7.2	7.3	7.0	7.0	7.0
6	7.2	7.0	7.1	7.4	7.2	7.3	7.5	7.3	7.4	7.0	6.9	7.0
7	7.2	6.8	7.1	7.4	7.1	7.3	7.6	7.3	7.5	7.1	6.9	7.0
8	6.8	0.4	4.4	7.2	7.0	7.1	7.6	7.3	7.4	7.0	6.9	7.0
9	6.3	4.2	5.8	7.0	6.9	7.0	7.6	7.3	7.4	7.0	6.8	6.9
10	7.0	6.3	6.7	7.1	7.0	7.1	7.5	7.1	7.3	7.0	6.8	6.9
11	7.1	6.7	6.9	7.2	7.0	7.1	7.6	7.1	7.3	6.9	6.8	6.8
12	7.3	6.9	7.1	7.2	7.0	7.1	7.5	7.0	7.3	7.1	6.9	7.0
13	7.3	7.0	7.2	7.3	7.0	7.1	7.1	6.6	6.9	7.2	7.0	7.1
14	7.3	7.0	7.1	7.3	7.0	7.1	6.8	6.7	6.8	7.4	7.2	7.3
15	7.2	6.9	7.1	7.5	7.1	7.2	7.0	6.8	6.9	7.5	7.2	7.4
16	7.3	6.9	7.1	7.2	7.0	7.1	7.0	6.8	7.0	7.5	7.3	7.5
17	7.6	7.0	7.2	7.0	6.9	6.9	6.9	6.8	6.8	7.6	7.4	7.5
18	7.8	7.2	7.4	7.0	6.9	7.0	6.9	6.6	6.8	7.7	7.5	7.5
19	8.0	7.3	7.6	7.1	6.9	7.0	7.0	6.7	6.8	7.7	7.4	7.6
20	8.0	7.3	7.5	7.2	7.0	7.0	7.0	6.8	6.9	7.6	7.1	7.3
21	7.6	7.2	7.4	7.3	7.0	7.1	7.1	6.8	7.0	7.1	7.0	7.0
22	7.3	7.2	7.2	7.4	7.0	7.2	7.2	6.9	7.0	7.1	7.0	7.1
23	7.5	7.1	7.3	7.2	7.0	7.1	7.0	6.8	6.9	7.1	7.0	7.0
24	7.3	7.2	7.2	7.2	7.0	7.1	7.0	6.8	6.9	7.3	7.1	7.2
25	7.3	7.2	7.2	7.3	6.9	7.0	7.2	6.9	7.0	7.3	7.3	7.3
26	7.4	7.2	7.3	7.3	7.0	7.1	7.5	7.0	7.2	7.4	7.2	7.3
27	7.4	7.2	7.3	7.2	7.0	7.1	7.3	7.2	7.3	7.3	7.2	7.3
28	7.3	6.8	7.0	7.2	6.6	6.9	7.3	7.1	7.2	7.4	7.2	7.3
29	---	---	---	7.0	6.8	6.9	7.2	7.0	7.1	7.4	7.3	7.3
30	---	---	---	7.0	6.9	7.0	7.1	7.0	7.0	7.4	7.2	7.3
31	---	---	---	7.2	7.0	7.0	---	---	---	7.4	7.1	7.3
MONTH	8.0	0.4	7.0	7.5	6.6	7.1	7.6	6.6	7.1	7.7	6.8	7.2

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	7.0	7.0	7.6	7.4	7.5	7.5	7.1	7.2	8.0	7.8	7.9
2	7.1	6.2	6.6	7.6	7.5	7.5	7.8	7.4	7.6	7.9	7.8	7.8
3	6.8	6.5	6.7	7.7	7.5	7.6	7.9	7.8	7.8	7.8	7.6	7.7
4	6.9	6.8	6.9	7.7	7.6	7.7	7.9	7.8	7.8	7.6	7.4	7.5
5	7.1	6.9	7.0	7.8	7.7	7.7	7.9	7.8	7.8	7.4	7.2	7.3
6	7.3	7.1	7.2	7.8	7.7	7.7	7.8	7.6	7.7	7.4	7.1	7.3
7	7.4	7.3	7.4	7.9	7.2	7.7	7.7	7.5	7.6	7.3	7.0	7.1
8	7.5	7.2	7.4	7.4	7.3	7.4	7.7	7.6	7.6	7.3	7.1	7.2
9	7.5	7.3	7.4	7.6	7.4	7.4	7.8	7.6	7.6	7.4	7.2	7.2
10	7.5	7.3	7.4	7.6	7.5	7.5	7.7	7.6	7.6	7.4	7.3	7.3
11	7.6	7.3	7.4	7.6	7.4	7.5	7.7	7.6	7.6	7.4	7.2	7.3
12	7.3	7.0	7.2	7.7	7.5	7.6	7.6	7.5	7.6	7.4	7.2	7.3
13	7.2	7.0	7.1	7.8	7.6	7.7	7.5	7.2	7.3	7.4	7.2	7.3
14	7.2	7.1	7.1	7.8	7.6	7.7	7.2	7.0	7.1	7.4	7.2	7.3
15	7.3	7.1	7.2	7.7	7.4	7.6	7.1	6.8	7.0	7.3	7.2	7.2
16	7.4	7.2	7.3	7.7	7.5	7.6	6.9	6.7	6.8	7.3	7.2	7.2
17	7.4	7.3	7.3	7.5	7.3	7.4	---	---	---	7.2	7.2	7.2
18	7.4	7.3	7.4	7.4	7.2	7.3	7.3	6.9	7.0	7.2	7.2	7.2
19	7.4	7.2	7.3	7.3	7.1	7.2	7.1	6.8	7.0	7.2	7.1	7.2
20	7.2	7.0	7.1	7.2	7.1	7.1	7.0	6.8	6.9	7.1	6.8	6.9
21	7.2	7.0	7.1	7.3	7.1	7.2	7.1	6.8	6.9	7.0	6.8	6.9
22	7.3	7.1	7.1	7.5	7.3	7.4	7.3	7.0	7.1	7.1	6.9	7.0
23	7.3	7.1	7.2	7.4	7.0	7.2	7.2	6.9	7.1	7.3	7.0	7.1
24	7.6	7.3	7.3	7.0	6.7	6.9	7.4	7.1	7.3	7.4	7.2	7.3
25	7.4	7.3	7.3	6.7	6.5	6.6	7.6	7.4	7.5	7.4	7.3	7.3
26	7.9	7.4	7.6	6.6	6.4	6.5	7.6	7.5	7.6	7.4	7.3	7.3
27	8.9	7.9	8.4	6.6	6.3	6.4	7.6	7.4	7.5	7.5	7.3	7.4
28	8.6	7.7	8.2	6.8	6.3	6.6	7.6	7.4	7.5	7.5	7.4	7.4
29	7.7	7.5	7.6	6.9	6.5	6.7	7.7	7.5	7.6	7.6	7.4	7.5
30	7.5	7.4	7.5	7.2	6.5	6.9	7.6	7.5	7.6	7.6	7.4	7.5
31	---	---	---	7.3	6.9	7.1	7.8	7.6	7.6	---	---	---
MONTH	8.9	6.2	7.3	7.9	6.3	7.3	---	---	---	8.0	6.8	7.3

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.3	19.6	19.9	19.6	18.2	18.8	11.5	9.4	10.7	8.4	6.2	7.3
2	21.1	20.1	20.5	19.4	18.5	18.9	10.3	8.0	9.1	9.4	7.3	8.3
3	21.0	20.0	20.4	19.9	19.2	19.5	8.2	6.9	7.6	10.2	7.9	9.1
4	20.2	19.4	19.8	19.6	17.8	18.7	7.5	6.0	6.8	11.7	9.5	10.6
5	19.6	18.0	18.7	17.8	14.6	16.3	7.4	5.5	6.5	12.9	10.9	12.0
6	18.5	17.3	17.7	14.6	12.9	13.5	8.7	6.8	7.8	14.0	11.9	13.0
7	---	---	---	13.2	11.5	12.6	12.6	8.7	10.6	13.7	12.2	13.1
8	16.8	15.3	16.1	13.2	11.7	12.4	13.7	12.3	13.0	13.9	12.6	13.3
9	17.0	15.8	16.4	12.1	10.4	11.3	12.3	10.9	11.4	13.3	11.5	12.3
10	17.6	16.3	17.0	10.6	9.5	9.9	13.5	10.9	12.3	11.5	9.7	10.7
11	17.8	16.9	17.3	10.1	9.4	9.7	12.7	10.2	11.4	10.9	9.0	10.1
12	17.2	16.3	16.8	12.0	10.1	10.9	10.2	8.4	9.1	12.2	9.4	10.9
13	19.0	17.2	18.1	12.6	11.5	12.1	9.5	8.0	8.9	15.1	11.7	13.3
14	18.8	17.7	18.1	11.5	9.2	10.2	8.0	5.1	6.4	16.3	11.5	14.3
15	17.7	16.1	17.1	9.2	7.8	8.4	5.1	3.5	4.1	11.5	8.6	9.5
16	16.1	14.4	15.0	8.0	7.5	7.8	3.6	2.2	3.0	8.6	7.2	7.7
17	15.0	13.4	14.1	8.7	7.2	7.9	4.3	2.4	3.3	7.2	3.9	5.5
18	15.4	13.7	14.5	10.3	8.1	9.1	4.8	3.1	4.0	3.9	1.5	2.9
19	17.0	15.4	16.2	12.3	10.3	11.3	5.0	3.7	4.2	1.9	0.9	1.3
20	18.1	17.0	17.5	13.5	12.0	12.8	3.8	1.2	2.1	2.9	0.6	1.7
21	17.8	17.2	17.4	14.3	12.9	13.7	2.8	0.8	1.7	4.6	2.4	3.7
22	17.4	16.8	17.1	14.9	13.7	14.3	5.0	2.1	3.4	4.1	3.8	4.0
23	16.8	15.8	16.2	15.7	14.8	15.3	9.6	5.0	7.7	3.8	1.2	2.5
24	15.8	15.4	15.6	16.6	15.7	16.1	8.9	5.5	7.0	2.5	0.1	1.3
25	16.8	15.7	16.1	16.3	12.9	15.2	5.5	3.8	4.6	3.6	0.6	2.1
26	16.1	15.8	16.0	12.9	9.6	11.1	3.8	2.7	3.5	5.9	1.9	3.9
27	16.5	16.1	16.3	9.6	7.8	8.4	3.0	1.9	2.5	6.1	3.8	5.0
28	16.6	16.3	16.5	10.9	8.5	9.8	2.4	1.1	1.8	4.8	3.0	3.8
29	16.6	16.2	16.4	10.3	8.9	9.5	3.4	1.3	2.4	---	---	---
30	18.2	16.6	17.4	9.4	7.7	8.6	6.0	3.0	4.6	---	---	---
31	19.1	17.7	18.4	---	---	---	7.2	5.1	6.1	5.3	3.5	4.2
MONTH	---	---	---	19.9	7.2	12.5	13.7	0.8	6.4	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	5.4	3.6	4.3	7.5	6.3	6.9	14.8	13.5	14.1	17.3	15.4	16.1
2	4.3	2.8	3.6	6.8	4.7	5.8	15.1	13.1	14.5	17.2	14.4	15.7
3	4.9	3.6	4.1	7.2	5.3	6.0	14.0	11.0	12.5	16.1	13.8	15.0
4	6.4	4.6	5.5	8.4	5.1	6.3	15.6	12.4	13.8	15.5	13.4	14.6
5	6.7	4.9	5.9	10.4	5.9	8.2	18.1	13.7	15.5	15.2	13.8	14.2
6	7.4	5.2	6.1	11.4	7.3	9.0	19.4	15.2	16.9	14.2	12.9	13.7
7	8.1	5.4	6.5	12.4	7.7	9.9	18.0	16.7	17.3	15.6	12.2	13.9
8	9.3	6.5	7.9	12.4	9.7	11.1	18.9	16.7	17.5	16.9	13.9	15.4
9	10.4	8.6	9.7	9.7	7.3	8.4	20.0	17.0	18.0	17.6	14.8	16.3
10	10.5	8.0	9.9	9.7	7.5	8.4	19.7	15.4	17.2	17.4	15.7	16.7
11	8.3	6.1	7.4	10.4	8.1	8.9	19.8	15.2	17.2	18.7	16.4	17.6
12	7.8	4.4	6.2	11.9	7.7	9.4	17.9	14.9	17.1	19.9	17.2	18.4
13	7.7	4.7	6.3	14.5	9.2	11.6	15.5	12.4	13.9	19.1	18.6	18.8
14	9.1	6.7	7.8	12.7	10.7	11.9	13.7	11.4	12.4	20.2	18.5	19.3
15	11.0	9.1	10.1	12.5	9.1	10.6	13.9	11.7	13.0	20.2	19.2	19.7
16	12.5	10.4	11.5	9.8	7.6	8.9	14.1	11.9	13.0	19.9	18.5	19.3
17	12.3	9.2	11.1	7.6	6.8	7.1	14.8	11.6	13.0	19.3	18.0	18.8
18	9.8	7.3	8.7	9.6	5.8	7.7	16.6	12.6	14.2	19.4	18.0	18.8
19	9.4	5.7	7.5	10.1	7.7	9.1	18.5	14.6	16.1	19.7	18.1	19.0
20	8.8	7.0	7.9	12.6	9.2	10.6	19.5	16.0	17.4	19.7	18.4	19.0
21	10.3	8.2	9.1	13.2	10.7	11.6	20.2	16.6	18.1	19.0	17.6	18.3
22	11.6	9.5	10.6	11.9	10.6	11.2	20.1	17.0	18.4	18.7	16.2	17.5
23	12.7	10.6	11.4	15.4	11.2	13.2	18.9	16.1	17.8	19.6	17.5	18.6
24	11.0	8.6	9.8	15.3	12.8	14.1	16.1	13.3	14.5	19.2	17.7	18.3
25	9.4	7.6	8.5	16.1	13.7	14.5	14.8	11.2	13.0	17.8	16.2	16.8
26	9.6	7.4	8.3	14.5	13.1	14.0	13.7	12.1	12.9	17.8	15.9	17.0
27	8.7	7.2	7.9	13.2	12.9	13.0	15.0	12.6	13.7	18.6	16.5	17.7
28	7.3	5.8	6.7	14.4	12.5	13.6	15.4	11.9	13.6	18.5	17.3	18.0
29	---	---	---	15.4	11.1	13.2	16.0	13.3	14.6	18.2	16.8	17.7
30	---	---	---	15.7	13.0	14.6	16.0	14.8	15.4	18.1	17.4	17.5
31	---	---	---	15.6	14.0	14.7	---	---	---	18.4	17.0	17.7
MONTH	12.7	2.8	7.9	16.1	4.7	10.4	20.2	11.0	15.2	20.2	12.2	17.3

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	18.4	17.1	17.6	25.0	23.2	24.0	23.8	22.7	23.3	25.0	22.8	23.8
2	17.2	16.0	16.8	24.3	22.9	23.7	24.1	22.4	23.4	24.5	21.7	23.0
3	17.6	17.0	17.2	24.0	23.2	23.5	24.8	23.0	23.9	24.1	21.4	22.6
4	19.5	17.6	18.4	24.1	23.1	23.6	25.3	23.4	24.4	23.3	20.1	21.6
5	20.8	19.2	20.0	25.2	23.5	24.2	25.3	23.8	24.5	22.5	19.7	21.0
6	22.3	20.4	21.3	24.9	23.8	24.4	25.0	23.6	24.2	21.9	19.2	20.5
7	22.6	21.1	21.8	25.1	23.7	24.3	24.3	23.1	23.7	21.5	18.7	20.0
8	23.0	21.0	21.8	24.8	23.5	24.1	24.5	23.1	23.6	22.4	18.9	20.5
9	22.9	21.4	22.1	24.3	22.8	23.7	25.2	23.4	24.0	22.1	17.5	19.8
10	23.3	21.9	22.6	24.5	23.1	23.8	24.7	23.7	24.1	21.6	17.6	19.6
11	22.8	21.9	22.3	24.7	23.5	24.1	25.8	23.5	24.5	21.1	18.0	19.7
12	23.2	21.9	22.5	25.6	24.1	24.8	26.1	24.0	24.9	20.9	17.6	19.3
13	23.6	22.5	23.0	25.7	24.5	25.0	25.9	24.1	24.8	21.8	18.9	20.2
14	24.6	22.8	23.7	24.9	23.8	24.4	25.4	24.0	24.5	22.6	20.6	21.5
15	25.2	23.2	24.1	25.5	23.7	24.5	25.1	23.4	24.3	23.9	20.4	22.1
16	24.2	22.7	23.5	25.7	24.2	24.9	26.2	24.5	25.3	23.9	20.9	22.4
17	23.1	21.7	22.3	26.4	24.4	25.2	---	---	---	24.4	20.7	22.6
18	22.2	20.5	21.3	26.9	24.9	25.6	25.2	24.2	24.5	24.1	20.6	22.4
19	21.7	20.5	21.0	27.1	24.8	25.8	25.6	24.0	24.7	23.9	20.0	21.9
20	21.3	19.8	20.4	26.5	24.9	25.7	26.9	24.9	25.8	23.2	21.3	22.3
21	21.5	19.2	20.3	26.2	25.0	25.7	27.3	25.3	26.2	23.7	22.2	22.8
22	22.5	20.0	21.1	26.0	24.9	25.5	26.6	24.8	25.6	23.7	21.7	22.5
23	23.1	20.7	21.8	26.1	24.3	25.2	25.8	24.4	25.0	23.8	20.4	22.2
24	23.2	20.9	22.0	25.9	24.1	24.9	25.1	24.1	24.5	23.2	20.4	22.0
25	22.8	21.1	21.9	27.0	23.6	25.1	24.7	23.1	23.9	23.0	22.0	22.5
26	23.1	21.7	22.3	28.0	24.8	26.1	23.9	21.6	22.7	23.3	22.0	22.7
27	23.8	22.3	22.9	28.4	25.3	26.7	23.8	21.3	22.4	23.9	21.1	22.5
28	23.4	22.5	22.9	27.8	23.8	26.1	24.5	22.2	23.2	22.3	19.9	21.2
29	23.3	22.5	22.9	24.3	23.7	24.0	24.5	22.4	23.4	22.7	19.0	20.9
30	24.4	22.5	23.5	23.7	23.0	23.4	25.0	23.2	24.0	21.2	18.6	19.5
31	---	---	---	23.5	23.2	23.4	25.6	23.9	24.6	---	---	---
MONTH	25.2	16.0	21.5	28.4	22.8	24.7	---	---	---	25.0	17.5	21.5

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.7	6.5	6.6	5.8	5.2	5.3	9.9	8.9	9.4	12.0	10.6	11.2
2	6.5	6.2	6.4	5.8	4.9	5.2	10.2	8.9	9.6	12.2	10.2	11.1
3	6.5	5.4	6.2	5.6	4.6	5.0	10.7	9.6	10.1	12.2	9.9	10.9
4	6.3	6.0	6.2	5.2	4.2	4.6	11.0	10.0	10.4	11.5	9.4	10.4
5	6.4	6.0	6.2	6.7	5.2	6.2	11.1	10.1	10.6	11.3	8.7	10
6	6.6	6.1	6.3	7.0	6.4	6.7	10.6	9.3	10.1	10.6	8.3	9.3
7	---	---	---	7.4	6.6	7.1	9.6	8.2	9.0	11.0	8.2	9.6
8	7.4	6.9	7.1	7.5	6.6	7.1	8.9	7.7	8.2	10.4	8.2	9.3
9	7.1	6.6	6.9	7.7	7.0	7.3	8.3	7.8	8.0	11.4	8.4	9.9
10	7.0	6.5	6.8	8.3	7.4	7.9	8.8	8.0	8.4	12.2	9.0	10.6
11	7.0	6.5	6.7	8.5	7.9	8.1	8.9	8.3	8.7	12.6	9.5	11.2
12	7.1	6.6	6.8	8.2	7.5	7.9	9.7	8.8	9.3	12.5	9.5	11.2
13	6.9	6.3	6.6	8.1	7.4	7.7	9.6	8.9	9.3	11.9	9.0	10.5
14	6.6	6.2	6.4	8.6	7.8	8.2	10.5	9.3	10	10.7	8.5	9.5
15	6.6	6.3	6.4	9.5	8.4	9.0	11.3	10.4	10.9	11.7	10.4	11.2
16	7.0	6.5	6.8	9.9	8.7	9.4	11.9	10.9	11.4	12.0	11.3	11.6
17	7.2	6.8	6.9	10.0	9.3	9.6	11.6	10.8	11.3	12.7	11.3	12.2
18	7.2	6.8	7.0	10.0	9.1	9.4	11.3	10.7	11.0	13.6	12.6	13.2
19	6.9	6.3	6.7	9.8	8.6	9.1	11.3	10.7	10.9	14.0	13.4	13.7
20	6.7	6.2	6.3	9.5	7.9	8.5	12.2	10.8	11.7	13.9	13.0	13.5
21	6.7	6.1	6.3	9.4	7.6	8.2	12.5	11.9	12.2	13.0	12.0	12.7
22	6.8	6.1	6.3	9.5	7.4	8.1	12.1	11.2	11.8	12.3	11.8	12.0
23	7.1	6.2	6.6	8.0	6.9	7.3	11.2	9.5	10.3	13.4	11.8	12.7
24	7.0	6.4	6.7	7.4	6.8	7.0	11.2	9.5	10.4	13.9	13.0	13.4
25	6.8	6.2	6.5	7.4	6.5	7.0	12.2	10.8	11.5	13.6	12.6	13.2
26	6.8	6.1	6.4	8.6	7.2	8.0	12.6	11.6	12.0	12.8	11.6	12.4
27	6.5	5.5	6.2	9.5	8.2	9.0	12.9	12.0	12.5	12.4	11.3	11.8
28	6.2	5.8	6.0	10.6	9.3	10.1	13.4	12.6	13.0	13.2	11.2	12.2
29	6.3	5.8	6.0	10.5	9.6	10	13.2	12.5	12.9	---	---	---
30	6.4	5.6	6.0	10.6	9.7	10.1	12.9	11.4	12.3	---	---	---
31	5.8	5.3	5.5	---	---	---	12.4	11.0	11.6	12.6	11.6	12.0
MONTH	---	---	---	10.6	4.2	7.8	13.4	7.7	10.6	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	13.1	11.5	12.1	11.2	10.7	11.0	9.3	8.5	9.0	7.9	6.7	7.3
2	13.5	11.4	12.4	11.8	11.0	11.4	8.9	8.4	8.7	7.8	6.8	7.4
3	12.2	11.2	11.7	11.6	11.1	11.3	9.8	8.8	9.2	8.1	6.8	7.4
4	11.7	10.8	11.4	11.5	10.8	11.2	9.4	8.4	8.9	8.4	7.0	7.6
5	11.7	10.7	11.2	11.1	10.3	10.7	8.9	7.6	8.3	8.3	7.3	7.8
6	11.6	10.7	11.1	11.1	10.1	10.6	8.9	7.2	8.0	8.6	7.6	8.0
7	11.6	10.5	11.1	11.1	9.4	10.4	---	---	---	8.8	7.8	8.2
8	11.5	9.8	10.7	10.0	9.3	9.6	---	---	---	8.5	7.3	7.9
9	10.4	9.1	9.8	11.0	9.6	10.4	8.8	6.8	7.5	8.3	7.2	7.6
10	10.9	9.0	9.8	10.9	10.0	10.4	9.2	6.8	7.8	8.4	7.0	7.5
11	11.8	9.5	10.6	10.5	9.8	10.1	9.5	7.0	8.0	7.8	6.8	7.2
12	12.5	10.6	11.4	10.2	9.0	9.7	8.8	6.8	7.5	7.5	6.6	7.0
13	12.7	10.7	11.5	9.7	8.0	9.0	9.1	7.8	8.6	7.0	6.5	6.8
14	11.9	9.8	10.7	9.6	8.0	8.7	9.6	8.7	9.3	7.2	5.9	6.7
15	10.6	9.4	9.9	10.6	8.2	9.4	9.7	8.8	9.2	6.2	5.4	5.7
16	10.8	9.1	9.8	11.3	8.7	10	9.6	8.8	9.2	6.8	5.3	6.1
17	11.1	9.2	9.9	11.6	11.1	11.4	9.5	8.8	9.1	7.2	5.9	6.4
18	11.9	9.6	10.7	12.0	10.4	11.3	9.2	8.2	8.8	7.1	6.1	6.5
19	12.8	9.9	11.1	11.5	10.3	10.8	8.6	7.2	8.0	7.3	6.1	6.6
20	12.7	10.0	11.0	10.7	9.6	10.2	---	---	---	7.1	5.9	6.5
21	10.6	9.5	10.2	10.3	9.1	9.6	---	---	---	6.6	6.2	6.4
22	10.4	9.4	9.9	10.2	8.9	9.5	---	---	---	7.0	6.3	6.6
23	10.7	9.1	9.7	9.4	8.1	8.9	---	---	---	7.0	6.2	6.5
24	10.4	9.4	9.9	9.7	8.1	8.7	---	---	---	7.0	6.2	6.6
25	11.0	10.1	10.5	9.9	7.7	8.6	---	---	---	7.6	6.5	7.0
26	11.3	10.0	10.6	9.7	8.0	8.7	---	---	---	7.6	6.8	7.1
27	11.6	10.4	10.9	9.2	8.2	8.5	8.6	7.2	7.7	7.7	6.8	7.1
28	11.5	10.3	11.1	9.0	8.0	8.5	8.9	7.4	8.0	7.5	6.7	7.0
29	---	---	---	9.7	8.4	9.2	8.8	7.1	7.7	7.7	6.7	7.1
30	---	---	---	9.5	8.4	8.9	7.6	6.8	7.2	7.3	6.7	7.0
31	---	---	---	9.0	8.1	8.6	---	---	---	7.6	6.7	7.1
MONTH	13.5	9.0	10.7	12.0	7.7	9.8	---	---	---	8.8	5.3	7.0

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	6.6	6.9	6.3	5.6	5.9	---	---	---	6.1	5.0	5.4
2	8.7	6.9	7.7	6.5	5.6	6.1	6.6	5.9	6.3	6.4	5.1	5.6
3	8.0	7.6	7.8	6.6	5.9	6.1	6.3	5.7	6.0	6.6	5.3	5.7
4	7.7	7.2	7.6	6.7	6.0	6.3	6.3	5.6	5.9	6.7	5.5	5.9
5	7.3	6.9	7.2	6.7	5.8	6.2	6.2	5.3	5.7	6.8	5.5	5.9
6	7.1	6.7	6.9	6.6	5.6	6.0	6.1	5.3	5.6	6.8	5.2	5.8
7	7.2	6.7	6.9	6.6	5.6	6.0	6.4	5.4	5.8	6.9	5.2	5.7
8	7.3	6.2	6.8	6.3	5.8	6.2	6.5	5.4	5.9	6.6	5.1	5.6
9	7.1	6.3	6.7	6.5	5.9	6.1	6.6	5.6	6.1	6.8	5.2	5.8
10	6.9	6.4	6.6	6.5	5.9	6.1	6.5	5.8	6.1	6.6	5.2	5.7
11	7.1	6.4	6.8	6.5	5.8	6.0	6.7	5.7	6.1	6.2	4.9	5.4
12	6.7	6.0	6.4	6.5	5.7	6.0	6.4	5.6	5.9	5.7	4.5	5.0
13	6.5	5.8	6.1	6.6	5.7	6.1	6.6	5.5	5.9	6.0	4.4	4.9
14	6.5	5.8	6.0	6.8	5.7	6.2	6.1	4.4	5.3	6.8	4.4	5.2
15	6.5	5.7	6.0	6.6	5.8	6.1	6.6	3.9	6.1	6.4	4.2	5.0
16	6.7	5.7	6.2	6.8	5.7	6.1	6.2	5.4	5.7	6.6	3.9	4.8
17	7.0	6.0	6.4	6.6	5.8	6.1	---	---	---	5.8	3.6	4.5
18	7.2	6.2	6.6	6.6	5.6	6.0	7.0	4.9	5.7	5.5	3.6	4.3
19	7.2	6.3	6.6	6.6	5.5	6.0	6.6	5.4	6.1	5.6	4.2	4.7
20	7.4	6.4	6.9	6.5	5.3	5.9	5.6	4.8	5.2	5.7	4.1	5.0
21	7.5	6.7	7.0	6.6	5.8	6.1	5.6	4.8	5.1	5.8	5.2	5.4
22	7.6	6.6	7.1	7.0	6.1	6.4	5.5	4.7	5.0	6.2	4.9	5.4
23	7.4	6.6	6.9	6.9	5.8	6.3	5.8	4.9	5.4	6.2	4.3	5.2
24	7.3	6.4	6.8	6.7	5.7	6.1	6.3	5.2	5.6	5.8	3.9	4.7
25	7.3	6.4	6.7	6.8	5.5	6.0	6.4	5.5	5.9	5.7	3.7	4.5
26	7.1	6.3	6.6	6.8	5.5	6.0	6.7	5.7	6.1	5.7	3.5	4.4
27	7.0	6.2	6.5	---	---	---	7.0	5.8	6.2	5.6	3.4	4.2
28	7.1	6.1	6.5	---	---	---	7.0	5.9	6.4	5.8	3.5	4.6
29	6.8	6.0	6.4	---	---	---	6.9	5.7	6.1	6.2	3.6	4.8
30	6.6	5.8	6.2	---	---	---	6.5	5.3	5.8	6.4	3.9	5.1
31	---	---	---	---	---	---	5.5	4.9	5.2	---	---	---
MONTH	8.7	5.7	6.7	---	---	---	---	---	---	6.9	3.4	5.1

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	75	73	74	65	56	58	92	81	86	104	87	95
2	74	71	73	64	54	57	91	80	85	108	86	96
3	73	62	70	63	51	55	92	81	86	110	85	97
4	71	67	69	56	46	50	93	83	87	108	84	95
5	70	66	68	70	56	64	94	82	88	109	80	94
6	71	66	68	69	63	66	91	81	87	104	78	90
7	---	---	---	71	64	68	90	78	83	107	78	93
8	77	72	74	73	62	68	87	74	79	102	79	91
9	74	70	72	73	65	68	77	73	75	109	80	94
10	75	69	71	76	67	71	83	74	80	114	82	98
11	75	69	71	76	71	73	83	79	81	115	84	101
12	75	69	71	76	71	73	86	79	82	117	85	103
13	75	68	71	78	70	73	86	79	82	118	85	102
14	71	67	70	79	70	74	87	79	82	100	87	94
15	70	66	68	83	74	78	89	81	85	104	96	100
16	71	66	69	85	74	81	91	83	86	103	96	99
17	72	66	69	88	80	83	90	83	86	103	94	98
18	73	68	70	89	79	83	89	83	86	104	97	100
19	72	66	69	93	79	84	90	83	85	103	97	99
20	72	65	68	92	76	82	90	83	87	104	96	99
21	71	65	67	94	74	80	93	86	89	102	93	98
22	72	64	67	95	73	81	95	87	90	96	92	94
23	74	65	68	81	70	74	91	84	88	101	91	95
24	72	66	68	77	70	73	94	82	87	103	92	97
25	71	64	67	76	67	71	97	86	91	104	94	98
26	70	63	66	80	68	74	98	89	92	104	91	96
27	68	57	64	83	72	78	98	89	93	102	88	94
28	65	60	63	95	81	90	100	91	95	103	86	94
29	66	60	62	94	86	89	101	92	96	---	---	---
30	69	60	63	93	84	88	105	92	97	---	---	---
31	64	57	59	---	---	---	104	88	95	101	90	94
MONTH	---	---	---	95	46	74	105	73	87	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	106	89	95	95	89	92	92	85	89	84	69	75
2	106	87	95	98	90	93	90	84	87	82	70	76
3	95	89	91	98	90	93	95	84	88	83	69	75
4	95	89	92	97	90	93	96	82	88	85	70	77
5	98	87	91	98	89	92	95	78	85	82	73	77
6	98	86	92	101	88	93	98	76	84	86	74	79
7	99	87	92	104	86	94	---	---	---	88	76	81
8	101	86	92	95	85	89	---	---	---	88	75	81
9	94	83	88	96	86	91	99	72	81	88	74	79
10	100	81	88	98	85	90	102	71	83	90	72	79
11	102	81	90	95	85	89	105	73	85	84	71	77
12	107	84	94	94	81	86	95	71	79	82	72	76
13	107	86	95	95	76	85	87	79	85	77	71	74
14	102	86	92	92	75	82	91	85	88	81	66	75
15	98	85	90	101	75	87	95	84	89	70	60	63
16	103	85	91	98	77	88	94	85	89	76	59	67
17	106	84	92	98	93	96	95	83	88	79	64	70
18	107	84	93	105	92	97	95	82	87	78	66	71
19	113	83	95	103	90	96	92	75	83	81	67	72
20	111	85	94	103	88	94	---	---	---	78	64	71
21	94	86	90	100	84	90	---	---	---	72	67	70
22	97	86	90	96	82	88	---	---	---	76	67	71
23	103	83	91	94	81	87	---	---	---	78	67	71
24	92	86	89	99	79	86	---	---	---	76	67	71
25	98	87	91	103	76	86	---	---	---	80	69	73
26	101	86	92	97	79	86	---	---	---	82	70	75
27	102	89	93	89	79	83	86	69	76	84	71	76
28	95	86	92	87	79	83	89	71	78	81	72	76
29	---	---	---	94	85	89	90	71	77	83	71	76
30	---	---	---	97	84	89	78	70	73	78	71	74
31	---	---	---	90	82	86	---	---	---	82	73	76
MONTH	113	81	92	105	75	89	---	---	---	90	59	74

02124692 GOOSE CREEK AT FAIRVIEW, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	77	71	73	72	62	66	---	---	---	75	60	65
2	90	73	80	71	62	66	80	71	75	78	60	66
3	84	81	83	71	62	65	77	69	72	80	62	67
4	85	80	82	71	62	65	78	67	72	80	63	68
5	83	78	80	82	61	68	77	65	70	80	62	68
6	83	77	79	80	68	72	75	64	68	79	58	66
7	85	77	80	80	67	72	78	65	70	80	58	64
8	85	72	79	76	68	72	79	64	71	78	57	64
9	84	73	79	76	68	71	82	67	74	79	57	65
10	82	76	78	75	67	70	80	70	74	76	56	64
11	84	76	79	79	66	71	84	70	74	71	53	60
12	80	71	76	79	67	72	81	68	72	64	48	55
13	78	69	73	78	67	71	83	68	73	70	48	56
14	80	69	73	77	64	70	76	54	65	80	51	60
15	80	69	73	82	64	71	81	48	74	77	48	58
16	81	69	75	82	68	73	78	67	71	79	46	56
17	83	71	75	79	67	71	---	---	---	71	43	54
18	84	71	76	78	65	69	86	60	70	67	41	50
19	84	72	76	84	61	71	80	67	75	68	49	55
20	85	72	78	80	65	71	72	60	66	68	47	58
21	86	70	79	79	68	73	72	60	65	70	61	64
22	89	67	75	81	70	74	70	59	63	75	57	64
23	86	75	79	78	64	70	73	61	66	74	51	61
24	86	73	78	74	59	65	78	64	69	69	46	55
25	85	72	77	74	56	62	79	67	71	68	43	53
26	82	71	74	73	54	61	81	67	72	68	41	52
27	84	69	75	---	---	---	84	67	73	67	40	50
28	81	71	75	---	---	---	86	70	76	68	40	53
29	78	68	73	---	---	---	84	68	73	73	42	55
30	75	65	70	---	---	---	80	65	71	71	44	56
31	---	---	---	---	---	---	69	60	64	---	---	---
MONTH	90	65	77	---	---	---	---	---	---	80	40	59

02124742 ROCKY RIVER NEAR STANFIELD, NC

LOCATION.--Lat 35°10'10", long 80°28'23", Union County, Hydrologic Unit 03040105, on right bank at bridge on Secondary Road 1606, 1.3 mi upstream from Crooked Creek, and 5.0 mi southwest of Stanfield

DRAINAGE AREA.--628 mi^2.

PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 419.46 ft above NAVD of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. WSACC Rocky River waste water treatment plant discharged an average of 20.5 ft^3/s as treated effluent 16.5 mi upstream from station. Minimum discharge for period of record and current water year affected by regulation. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing discharge values on the daily values table are days when the flow exceeded the rating. Minimum discharge for current water year also occurred Sept. 26.

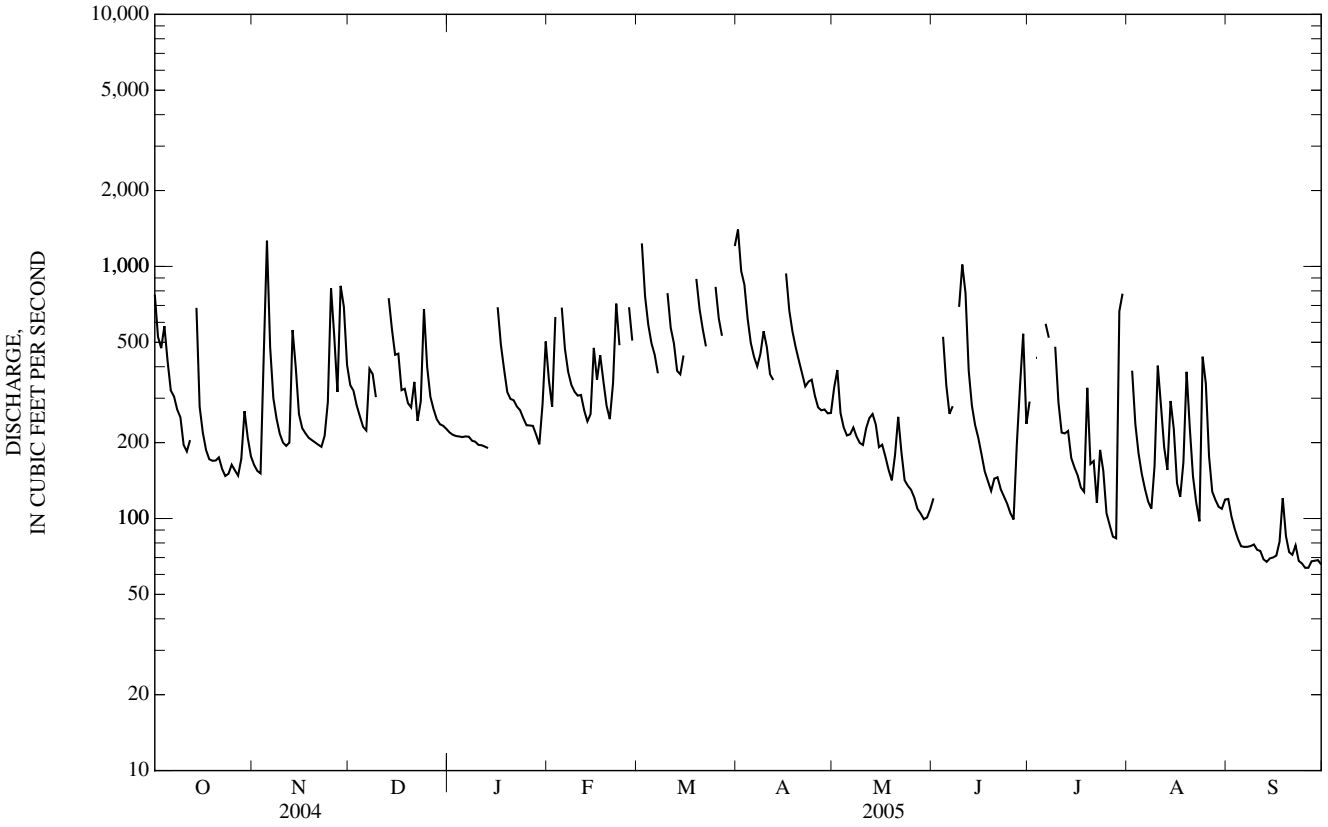
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	773	163	338	219	353	---	1,400	330	120	291	---	120
2	526	155	322	215	277	1,230	958	388	---	---	386	102
3	474	151	281	212	630	762	847	262	---	434	237	91
4	579	446	254	212	---	588	621	229	526	---	181	83
5	420	1,260	231	210	686	496	497	213	338	---	151	78
6	322	478	223	212	470	446	438	216	260	592	131	77
7	305	300	393	211	382	377	401	229	279	522	117	77
8	270	249	374	204	339	---	450	211	---	---	109	78
9	252	217	303	202	318	---	553	200	691	480	161	79
10	196	200	---	196	307	783	478	196	1,020	289	404	75
11	185	194	---	195	309	571	373	228	783	219	280	74
12	205	200	---	193	269	495	355	250	385	218	192	69
13	---	559	748	190	243	385	---	260	280	222	156	67
14	685	396	565	---	260	373	---	236	235	174	293	69
15	277	259	446	---	475	443	---	192	209	159	227	70
16	219	228	451	689	355	---	938	196	180	148	138	71
17	187	218	323	489	445	---	669	176	154	133	122	81
18	172	209	327	391	350	---	552	156	141	128	167	120
19	169	205	287	317	280	892	478	142	129	330	382	85
20	170	201	276	298	248	678	423	178	144	165	228	74
21	175	196	348	295	344	564	376	253	146	169	147	72
22	157	192	244	278	712	482	334	183	131	115	116	78
23	147	213	292	269	487	---	349	142	122	187	97	68
24	151	290	678	e250	---	---	355	135	114	154	438	66
25	163	818	399	234	---	829	307	130	105	105	343	64
26	155	530	304	234	689	622	276	121	99	94	177	64
27	148	318	271	233	508	531	269	109	195	85	128	68
28	173	837	248	215	---	---	271	105	334	83	118	68
29	267	691	237	197	---	---	261	99	540	664	111	68
30	209	406	233	283	---	---	262	101	237	780	109	66
31	176	---	227	504	---	1,200	---	109	---	---	119	---

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
LOWEST DAILY MEAN	74	Aug 11	64	Sep 25	35	Sep 18, 2000
ANNUAL SEVEN-DAY MINIMUM	93	Aug 6	66	Sep 24	40	Aug 7, 2002
MAXIMUM PEAK STAGE					14.50	Apr 11, 2003
INSTANTANEOUS LOW FLOW			53*	Sep 25	29*	Aug 12, 2002

* See REMARKS.
e Estimated.

02124742 ROCKY RIVER NEAR STANFIELD, NC—Continued



02125000 BIG BEAR CREEK NEAR RICHFIELD, NC

LOCATION.--Lat 35°20'05", long 80°20'08", Stanly County, Hydrologic Unit 03040105, on left bank 300 ft downstream of Little Creek, 400 ft upstream from bridge on Secondary Road 1134, and 10 mi southwest of Richfield.

DRAINAGE AREA.--55.6 mi^2.

PERIOD OF RECORD.--May 1954 to current year.

REVISED RECORDS.--WSP 1503: 1955, 1956(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 426.62 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for current water year also occurred Sept. 20-22, 29-30. No flow occurs several days in most years.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1921 reached a stage of about 19 ft, information from State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	14	37	17	32	231	109	16	2.7	67	70	1.5
2	52	13	31	16	26	109	87	13	46	36	24	1.3
3	43	13	27	16	100	74	62	10	36	8.4	14	1.1
4	36	87	23	15	127	55	47	9.1	16	7.0	10	0.89
5	29	98	21	15	67	46	39	8.3	11	74	8.1	0.77
6	25	45	20	15	45	38	33	9.2	7.5	12	6.7	0.66
7	22	31	40	15	37	34	31	8.9	8.3	262	5.8	0.62
8	20	24	33	14	33	188	33	8.1	82	172	6.7	0.60
9	19	19	31	14	31	120	38	6.9	16	31	27	0.53
10	17	16	433	13	29	70	29	6.3	9.5	16	26	0.46
11	16	15	171	13	25	55	24	7.6	7.1	11	11	0.40
12	15	29	85	13	22	46	23	6.9	5.8	8.8	8.2	0.31
13	490	57	57	13	21	39	146	6.2	5.5	7.1	6.6	0.33
14	93	32	41	761	24	41	495	5.7	5.0	6.2	5.6	0.34
15	49	24	32	172	38	36	122	5.1	4.1	5.4	5.0	0.28
16	33	22	29	82	33	168	62	4.7	3.2	4.9	4.4	0.21
17	25	20	27	54	38	515	45	4.2	2.6	3.8	7.0	0.34
18	21	17	25	40	28	192	36	4.0	2.2	3.3	6.4	0.28
19	19	16	24	34	24	112	30	3.6	3.5	3.0	6.0	0.13
20	18	15	21	32	22	77	25	4.7	4.5	2.8	4.7	0.11
21	17	15	19	31	33	58	21	4.7	2.9	2.3	4.0	0.09
22	15	14	19	28	45	54	19	4.2	2.2	2.3	3.4	0.07
23	15	22	36	25	34	157	18	3.9	1.9	2.3	3.2	0.10
24	14	35	43	21	146	119	16	3.4	1.6	1.7	5.3	0.10
25	14	56	30	21	116	71	14	3.0	1.4	1.4	13	0.08
26	13	34	25	21	66	52	13	2.7	1.4	1.1	5.6	0.08
27	13	27	22	20	49	44	13	2.4	1.3	0.96	3.8	0.11
28	18	159	19	17	642	849	12	2.1	2.9	0.82	2.7	0.10
29	21	68	19	16	---	242	11	2.1	3.3	5.4	2.4	0.08
30	18	43	19	33	---	107	11	2.2	2.4	9.8	2.1	0.06
31	15	---	18	46	---	102	---	2.4	---	487	1.9	---
TOTAL	1,280	1,080	1,477	1,643	1,933	4,101	1,664	181.6	299.8	1,256.78	310.6	12.03
MEAN	41.3	36.0	47.6	53.0	69.0	132	55.5	5.86	9.99	40.5	10.0	0.40
MAX	490	159	433	761	642	849	495	16	82	487	70	1.5
MIN	13	13	18	13	21	34	11	2.1	1.3	0.82	1.9	0.06
CFSM	0.74	0.65	0.86	0.95	1.24	2.38	1.00	0.11	0.18	0.73	0.18	0.01
IN.	0.86	0.72	0.99	1.10	1.29	2.74	1.11	0.12	0.20	0.84	0.21	0.01

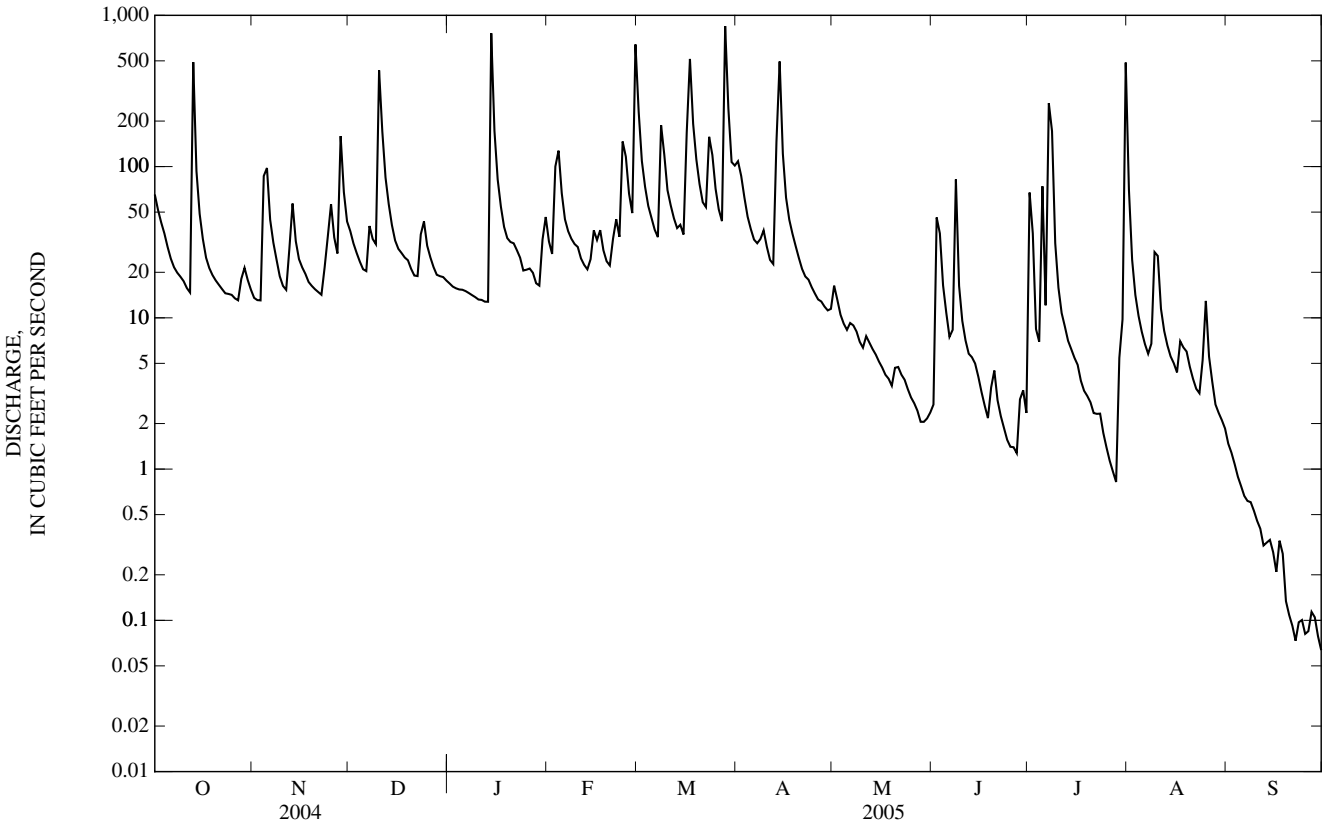
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	41.6	32.5	55.4	105	128	123	74.7	38.6	31.8	32.5	23.3	23.6
MAX	355	212	186	357	284	345	335	240	296	220	223	248
(WY)	(1991)	(1986)	(1977)	(1998)	(1984)	(1993)	(2003)	(2003)	(2003)	(1984)	(1967)	(2004)
MIN	0.01	0.34	2.12	4.38	16.2	13.2	6.87	1.32	0.24	0.01	0.00	0.00
(WY)	(1962)	(1962)	(1966)	(1981)	(1986)	(1981)	(1967)	(1986)	(1986)	(2002)	(1980)	(1993)

02125000 BIG BEAR CREEK NEAR RICHFIELD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	15,199.20		15,238.81			
ANNUAL MEAN	41.5		41.8		59.0	
HIGHEST ANNUAL MEAN					174	2003
LOWEST ANNUAL MEAN					18.2	2001
HIGHEST DAILY MEAN	4,260	Sep 28	849	Mar 28	5,240	Oct 11, 1990
LOWEST DAILY MEAN	0.00	Jul 11	0.06	Sep 30	0.00	Sep 12, 1954
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 11	0.09	Sep 24	0.00	Sep 12, 1954
MAXIMUM PEAK FLOW			2,810	Mar 28	11,400	Jul 23, 1997
MAXIMUM PEAK STAGE			8.18	Mar 28	16.54	Jul 23, 1997
INSTANTANEOUS LOW FLOW			0.06*	Sep 19	0.00*	Sep 12, 1954
ANNUAL RUNOFF (CFSM)	0.747		0.751		1.06	
ANNUAL RUNOFF (INCHES)	10.17		10.20		14.42	
10 PERCENT EXCEEDS	53		86		118	
50 PERCENT EXCEEDS	11		18		12	
90 PERCENT EXCEEDS	0.48		1.5		0.41	

* See REMARKS.



02126000 ROCKY RIVER NEAR NORWOOD, NC

LOCATION.--Lat 35°08'56", long 80°10'33", Stanly County, Hydrologic Unit 03040105, on left bank 1,000 ft downstream of Lanes Creek, 1.5 mi upstream from bridge on Secondary Road 1935, 6 mi southwest of Norwood, and 11.2 mi upstream from mouth.

DRAINAGE AREA.--1,372 mi^2.

PERIOD OF RECORD.--October 1929 to current year.

REVISED RECORDS.--WSP 852: 1937. WSP 1052: 1936(M). WSP 1503: 1935, 1945. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 212.91 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in August 1908 reached a stage of 35 ft, from information by local residents; discharge, 67,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,210	317	667	381	868	8,150	3,400	520	221	1,010	4,840	142
2	1,930	302	609	370	651	2,850	2,180	602	6,270	3,350	1,190	146
3	2,380	291	554	360	1,140	1,650	1,730	487	5,460	1,040	641	124
4	3,150	353	497	355	4,440	1,240	1,350	403	1,120	1,080	468	107
5	1,760	1,670	455	358	1,840	1,050	1,110	370	632	2,500	383	96
6	1,150	972	429	352	1,150	920	975	366	446	904	331	87
7	969	609	525	351	907	828	912	371	390	529	289	86
8	872	485	770	347	793	1,490	947	354	1,590	1,990	262	89
9	796	419	599	333	724	3,180	1,220	320	1,320	854	273	89
10	748	378	3,770	323	684	1,560	1,240	305	1,050	471	684	87
11	656	357	5,300	321	637	1,150	883	311	1,210	344	560	81
12	629	358	2,260	320	595	990	799	349	655	287	436	77
13	1,570	757	1,260	317	536	861	5,000	403	429	303	317	72
14	1,510	797	930	8,530	526	779	9,930	400	352	274	269	76
15	770	530	752	5,880	822	788	4,980	325	304	e240	527	80
16	581	446	690	1,860	874	1,980	2,080	290	264	215	428	78
17	418	416	598	1,200	805	11,100	1,400	287	e232	195	289	84
18	369	400	543	924	919	5,120	1,120	266	199	176	286	86
19	355	386	526	760	665	2,290	964	247	180	212	758	112
20	348	375	483	689	578	1,550	867	305	174	294	618	91
21	345	361	497	663	610	1,250	785	418	190	202	330	80
22	333	347	477	626	1,420	1,070	703	394	178	234	239	80
23	311	396	462	588	1,210	1,440	653	289	165	422	256	83
24	308	685	807	543	1,240	3,120	665	259	154	336	578	81
25	307	929	739	519	2,860	1,550	600	242	144	205	657	73
26	314	953	546	491	1,530	1,150	561	232	136	154	343	72
27	301	612	480	487	1,070	998	532	216	130	137	241	68
28	324	1,020	436	452	8,740	9,470	491	200	3,740	124	187	72
29	420	1,310	406	419	---	10,400	470	193	4,110	345	170	75
30	419	834	401	501	---	3,300	451	190	801	1,020	153	80
31	358	---	394	926	---	2,030	---	192	---	4,460	149	---
TOTAL	26,911	18,065	27,862	30,546	38,834	85,304	48,998	10,106	32,246	23,907	17,152	2,654
MEAN	868	602	899	985	1,387	2,752	1,633	326	1,075	771	553	88.5
MAX	3,150	1,670	5,300	8,530	8,740	11,100	9,930	602	6,270	4,460	4,840	146
MIN	301	291	394	317	526	779	451	190	130	124	149	68
CFSM	0.63	0.44	0.66	0.72	1.01	2.01	1.19	0.24	0.78	0.56	0.40	0.06
IN.	0.73	0.49	0.76	0.83	1.05	2.31	1.33	0.27	0.87	0.65	0.47	0.07

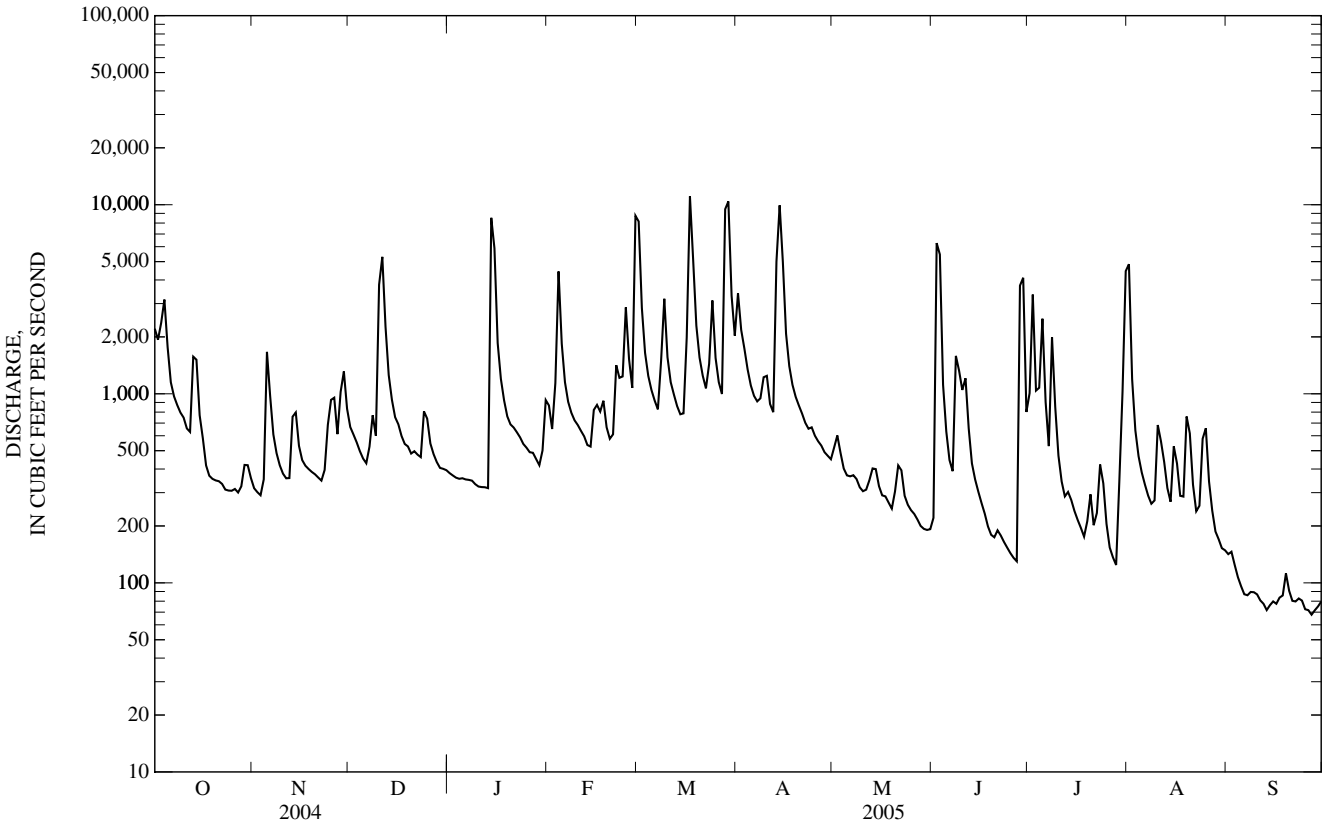
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	881	782	1,271	2,386	2,706	2,718	1,764	845	716	767	736	720
MAX	6,837	4,763	4,564	7,458	7,922	7,674	7,097	4,606	4,519	3,479	2,917	8,262
(WY)	(1991)	(1949)	(1933)	(1998)	(1960)	(1993)	(1936)	(2003)	(2003)	(1997)	(1967)	(1945)
MIN	45.9	54.1	105	152	321	412	234	140	88.5	95.6	82.4	41.0
(WY)	(1931)	(1942)	(1934)	(1934)	(1938)	(1981)	(1967)	(2002)	(1986)	(1986)	(1957)	(1954)

02126000 ROCKY RIVER NEAR NORWOOD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	391,074		362,585			
ANNUAL MEAN	1,069		993		1,352	
HIGHEST ANNUAL MEAN					3,127	2003
LOWEST ANNUAL MEAN					406	2002
HIGHEST DAILY MEAN	39,700	Sep 8	11,100	Mar 17	85,600	Sep 18, 1945
LOWEST DAILY MEAN	92	Jul 27	68	Sep 27	19	Oct 28, 1931
ANNUAL SEVEN-DAY MINIMUM	118	May 31	74	Sep 24	26	Oct 7, 1954
MAXIMUM PEAK FLOW			17,800	Mar 28	105,000	Sep 18, 1945
MAXIMUM PEAK STAGE			14.14	Mar 28	46.37*	Sep 18, 1945
INSTANTANEOUS LOW FLOW			63	Sep 27	17	Oct 8, 1954
ANNUAL RUNOFF (CFSM)	0.779		0.724		0.985	
ANNUAL RUNOFF (INCHES)	10.60		9.83		13.38	
10 PERCENT EXCEEDS	1,500		2,010		2,940	
50 PERCENT EXCEEDS	408		501		402	
90 PERCENT EXCEEDS	148		151		105	

* See REMARKS.
e Estimated.



02128000 LITTLE RIVER NEAR STAR, NC

LOCATION.--Lat 35°23'14", long 79°49'53", Montgomery County, Hydrologic Unit 03040104, on left bank 9 ft downstream from bridge on Secondary Road 1340, 50 ft upstream from Black Rock Branch, 0.2 mi upstream from Norfolk Southern Railway bridge, 0.3 mi downstream from West Fork Little River, and 3 mi west of Star.

DRAINAGE AREA.--106 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54. April 1954 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 409.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. No flow also occurred Aug. 13-15, 25-26, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage of about 20 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	117	38	62	47	91	404	164	90	33	28	122	16
2	484	38	57	46	72	161	157	112	137	23	47	17
3	132	37	54	46	109	117	159	71	120	20	27	15
4	79	52	50	46	273	99	119	63	73	29	19	12
5	60	93	47	47	122	93	104	59	55	36	15	11
6	51	66	45	47	90	87	98	61	60	21	12	8.8
7	45	47	50	46	79	81	120	61	63	31	10	8.6
8	44	42	68	46	73	318	425	59	73	99	9.8	8.4
9	43	38	56	46	71	308	309	55	108	54	12	7.4
10	40	35	264	44	71	141	169	49	91	29	66	6.8
11	38	35	218	44	66	112	126	70	70	21	27	5.9
12	36	39	103	43	61	100	113	55	50	17	16	5.3
13	222	122	75	46	60	94	407	63	43	15	12	5.3
14	122	72	63	2,170	65	137	966	64	40	14	9.6	5.0
15	69	47	55	472	92	146	290	52	35	16	21	4.8
16	53	42	52	168	88	338	161	47	31	14	24	4.7
17	44	40	51	116	76	1,180	130	43	28	12	364	7.0
18	40	40	51	92	67	433	117	41	25	10	375	6.4
19	39	39	51	80	62	203	108	39	23	47	532	5.3
20	38	38	49	77	61	149	100	57	40	17	95	6.2
21	38	38	46	76	67	126	92	54	35	11	54	11
22	37	37	45	71	78	112	87	48	26	17	38	6.9
23	37	43	58	67	78	150	84	44	22	43	31	5.7
24	37	147	83	62	124	197	82	48	20	18	30	5.7
25	38	97	68	61	190	122	77	39	18	11	38	5.1
26	36	74	56	64	105	110	74	36	18	8.6	29	5.1
27	37	56	51	64	86	102	73	34	18	7.0	23	5.8
28	37	138	47	60	585	1,130	70	32	73	9.8	21	5.9
29	38	109	48	58	---	529	68	31	71	574	19	5.2
30	40	71	48	83	---	218	71	31	36	114	18	4.4
31	39	---	48	139	---	157	---	32	---	75	19	---
TOTAL	2,210	1,810	2,119	4,574	3,062	7,654	5,120	1,640	1,535	1,441.4	2,135.4	227.7
MEAN	71.3	60.3	68.4	148	109	247	171	52.9	51.2	46.5	68.9	7.59
MAX	484	147	264	2,170	585	1,180	966	112	137	574	532	17
MIN	36	35	45	43	60	81	68	31	18	7.0	9.6	4.4
CFSM	0.67	0.57	0.64	1.39	1.03	2.33	1.61	0.50	0.48	0.44	0.65	0.07
IN.	0.78	0.64	0.74	1.61	1.07	2.69	1.80	0.58	0.54	0.51	0.75	0.08

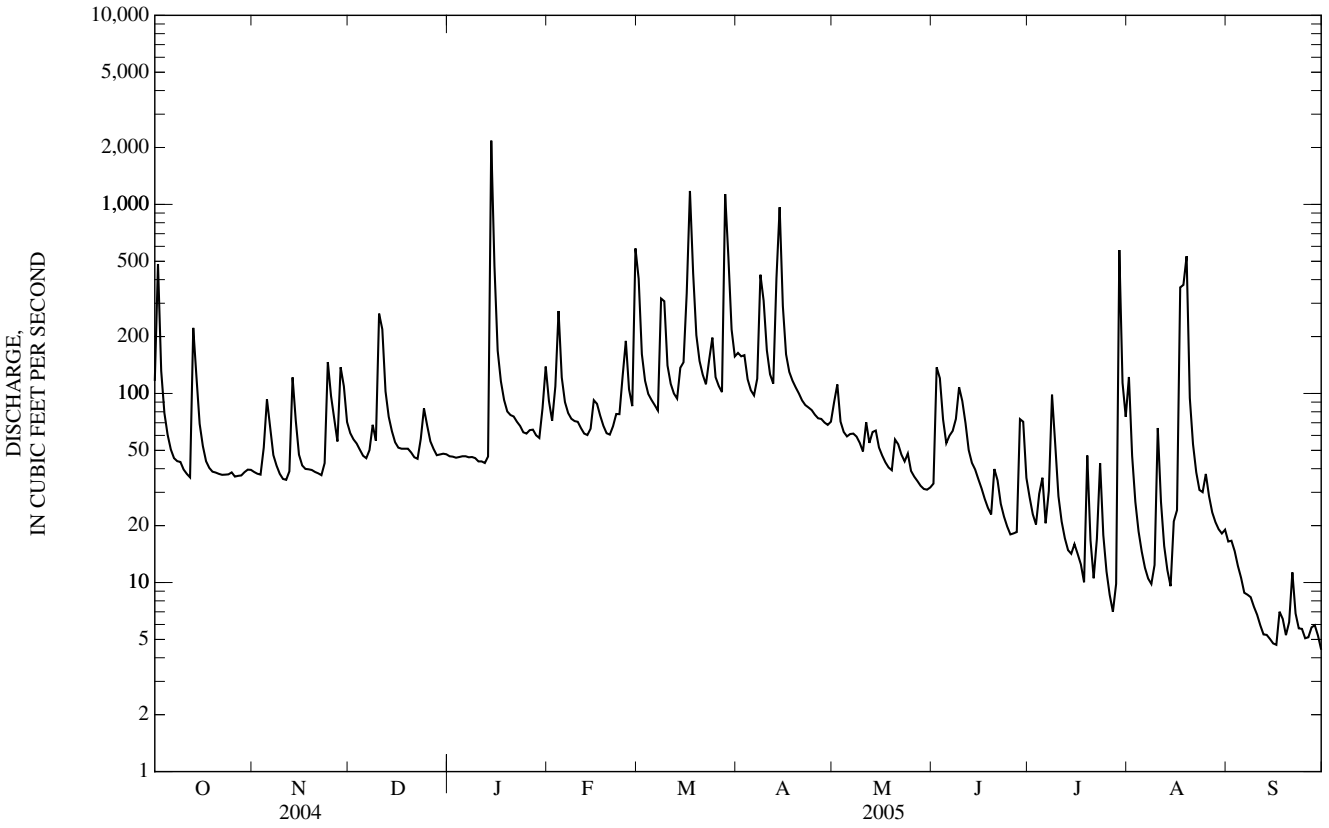
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	69.9	66.0	95.6	166	206	220	172	97.9	70.2	65.7	58.0	54.6
MAX	337	366	361	511	467	678	430	296	273	578	474	286
(WY)	(1991)	(1986)	(1973)	(1998)	(1960)	(1998)	(1958)	(1990)	(1972)	(1997)	(2003)	(2004)
MIN	4.03	7.77	11.0	23.5	38.6	47.0	38.0	13.7	2.55	1.20	0.50	0.76
(WY)	(1987)	(2002)	(2002)	(2001)	(2002)	(1967)	(1967)	(2002)	(2002)	(2002)	(2002)	(1968)

02128000 LITTLE RIVER NEAR STAR, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	33,947.2		33,528.5			
ANNUAL MEAN	92.8		91.9		112	
HIGHEST ANNUAL MEAN					243	2003
LOWEST ANNUAL MEAN					27.4	2002
HIGHEST DAILY MEAN	3,200	Sep 8	2,170	Jan 14	9,800	Jul 23, 1997
LOWEST DAILY MEAN	3.7	Aug 11	4.4	Sep 30	0.00	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	5.9	Aug 6	5.3	Sep 24	0.00	Aug 10, 2002
MAXIMUM PEAK FLOW			3,920	Jan 14	15,400	Jul 23, 1997
MAXIMUM PEAK STAGE			9.50	Jan 14	18.60	Jul 23, 1997
INSTANTANEOUS LOW FLOW			4.2	Sep 30	0.00*	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	0.875		0.867		1.05	
ANNUAL RUNOFF (INCHES)	11.91		11.77		14.31	
10 PERCENT EXCEEDS	139		157		194	
50 PERCENT EXCEEDS	56		52		50	
90 PERCENT EXCEEDS	17		12		9.0	

* See REMARKS.



02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC

LOCATION.--Lat 34°56'45", long 79°52'11", Richmond County, Hydrologic Unit 03040201, on left bank at bridge on U.S. Highway 74, 2.5 mi upstream from Falling Creek, 3.3 mi downstream of Blewett Falls hydroelectric plant, 6 mi west of Rockingham, and 192 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,863 mi^2.

PERIOD OF RECORD.--August 1906 to January 1912, October 1927 to current year. August 1906 to January 1912 published as "Yadkin River near Pee Dee".

REVISED RECORDS.--WSP 1203: 1928-37. WSP 1303: 1928-42 (monthly and yearly runoff), 1943-46 (adjusted monthly runoff). WSP 1503: 1906-12, 1928-32(m). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 120.68 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). August 1906 to January 1912 nonrecording gage at site 3.3 mi upstream at different datum. Sept. 1927 to Sept. 30, 1931, water-stage recorder at present site at 121.68 ft. Telephone and satellite telemetry at station.

REMARKS.--Records good except those below 1000 ft^3/s, which are fair. Flow regulated since 1928 by Blewett Falls Lake and five other reservoirs upstream. Prior to regulation, maximum discharge: 276,000 ft^3/s, Aug. 27, 1908; gage height: 31.28 ft, present site and datum, from records of State Highway Commission. Prior to regulation, minimum discharge: 2,210 ft^3/s, Sept. 3, 1907. Minimum discharge for period of record also occurred Dec. 2, 3, 1951; minimum daily discharge for period of record: 58 ft^3/s, Dec 2, 1951, a result of abnormally low flow during shutdown of Blewett Falls hydroelectric plant to produce steady flow for current-meter measurements at this gaging station. Minimum discharge from normal regulations: 96 ft^3/s, Oct. 25, 1943; minimum daily discharge: 120 ft^3/s, Oct. 8, 1961.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46,800	6,130	9,610	7,860	9,210	23,600	16,300	5,270	2,850	6,830	12,500	3,440
2	14,500	6,030	9,730	6,900	9,480	15,700	15,400	6,260	7,090	4,310	10,900	3,590
3	8,880	2,760	10,300	7,980	9,320	11,800	13,800	5,680	17,300	2,130	10,100	733
4	10,400	6,990	9,680	8,700	9,210	12,900	13,800	5,720	10,900	1,190	8,270	389
5	9,150	7,140	8,070	9,200	6,920	10,900	10,600	6,940	7,210	5,130	6,950	382
6	5,650	5,670	1,090	9,650	4,720	9,820	9,810	6,560	2,660	8,770	484	1,930
7	8,220	3,110	1,580	3,970	6,210	9,560	9,510	4,970	3,910	9,550	438	1,510
8	6,430	3,070	347	267	7,120	9,300	9,320	2,200	8,120	9,520	4,790	1,520
9	3,020	3,050	4,730	258	8,110	9,280	9,450	5,100	8,120	18,200	5,250	3,600
10	759	6,700	16,500	239	9,040	10,500	9,590	7,170	8,390	19,900	5,460	636
11	5,380	9,460	13,300	5,460	2,570	12,200	10,200	8,210	6,720	11,200	8,920	497
12	5,810	2,430	37,100	6,470	2,200	9,890	9,780	7,630	618	9,900	8,170	2,960
13	6,990	1,090	15,300	7,280	942	9,640	10,200	776	4,420	8,130	3,820	3,030
14	8,700	3,040	6,920	14,800	6,230	8,210	25,800	228	7,800	3,980	3,720	2,940
15	8,090	3,060	5,810	32,400	7,440	9,520	26,900	284	5,880	7,440	5,570	2,860
16	5,810	4,820	9,020	16,700	9,050	9,590	14,900	5,440	6,240	4,190	5,440	2,680
17	7,600	3,990	8,990	13,100	8,920	23,000	11,600	2,690	6,170	3,330	7,450	2,160
18	4,430	5,780	6,290	11,900	4,650	21,900	10,000	4,500	272	4,510	7,310	481
19	6,660	4,480	6,300	11,700	1,930	11,900	9,270	4,930	1,280	6,570	7,960	346
20	6,990	6,860	6,770	10,300	9,580	8,060	8,940	4,310	2,020	5,250	1,710	2,250
21	5,990	8,100	7,630	9,600	8,610	7,570	5,830	3,430	3,690	5,160	4,080	2,680
22	4,950	5,820	7,610	9,650	6,740	7,850	8,580	3,940	5,040	4,590	4,660	2,010
23	3,130	5,830	7,890	9,740	7,590	8,900	712	5,730	3,640	4,230	4,890	2,270
24	1,100	8,480	8,200	9,800	7,790	9,410	439	5,880	2,330	2,280	5,930	384
25	5,120	9,070	9,190	9,380	9,450	9,410	5,160	3,970	895	4,330	5,640	330
26	4,620	8,700	9,540	6,680	5,310	7,360	5,470	2,350	597	5,810	3,930	1,250
27	5,350	9,300	9,810	5,770	4,180	5,120	5,010	1,800	5,160	5,900	2,190	637
28	3,040	8,440	9,770	8,060	8,290	8,370	6,870	585	4,570	4,810	2,520	1,460
29	5,600	9,440	8,070	7,950	---	42,600	7,050	351	10,900	4,410	3,200	1,890
30	1,050	9,540	6,690	6,500	---	45,400	7,640	337	10,700	3,460	5,150	1,340
31	1,260	---	6,730	6,820	---	29,400	---	2,500	---	4,680	5,710	---
TOTAL	221,479	178,380	278,567	275,084	190,812	428,660	307,931	125,741	165,492	199,690	173,112	52,185
MEAN	7,144	5,946	8,986	8,874	6,815	13,830	10,260	4,056	5,516	6,442	5,584	1,740
MAX	46,800	9,540	37,100	32,400	9,580	45,400	26,900	8,210	17,300	19,900	12,500	3,600
MIN	759	1,090	347	239	942	5,120	439	228	272	1,190	438	330
†	-870	99	-459	-589	917	678	-284	201	-185	295	-871	-171

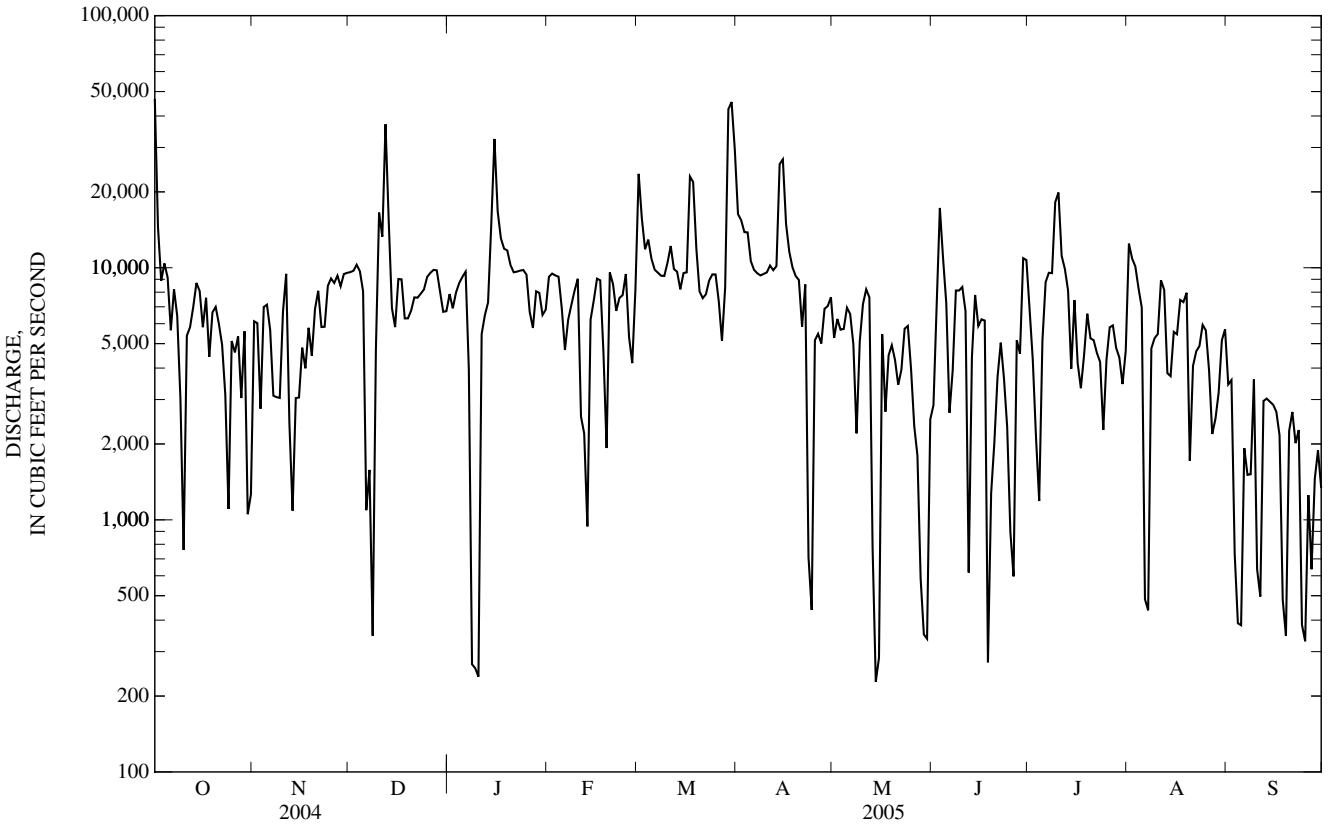
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2005,* BY WATER YEAR (WY)

MEAN	5,860	5,516	7,485	10,830	12,350	13,430	10,850	7,210	5,980	5,293	5,422	5,492
MAX	25,850	16,120	20,300	31,270	36,040	34,480	31,340	17,410	20,260	16,790	19,180	35,690
(WY)	(1991)	(1958)	(1933)	(1937)	(1960)	(1993)	(1936)	(2003)	(2003)	(1975)	(1928)	(1928)
MIN	503	419	1,598	2,475	3,032	4,117	2,692	1,955	1,853	1,668	979	1,008
(WY)	(2002)	(2002)	(2002)	(1956)	(2001)	(1981)	(1981)	(2002)	(1986)	(2002)	(2002)	(1954)

02129000 PEE DEE RIVER NEAR ROCKINGHAM, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1928 - 2005*	
ANNUAL TOTAL	2,555,980		2,597,133			UNADJUSTED
ANNUAL MEAN	6,984		7,115	‡7,004	7,955	
HIGHEST ANNUAL MEAN					14,980	2003
LOWEST ANNUAL MEAN					2,310	2002
HIGHEST DAILY MEAN	81,400	Sep 9	46,800	Oct 1	242,000	Sep 18, 1945
LOWEST DAILY MEAN	279	Aug 8	228	May 14	58*	Dec 2, 1951
ANNUAL SEVEN-DAY MINIMUM	1,760	May 27	1,040	Sep 24	185	Sep 28, 1985
MAXIMUM PEAK FLOW			69,100	Oct 1	270,000*	Sep 18, 1945
MAXIMUM PEAK STAGE			11.96	Oct 1	30.80*	Sep 18, 1945
INSTANTANEOUS LOW FLOW			185	Jan 9	50*	Dec 2, 1951
10 PERCENT EXCEEDS	10,100		11,000		14,300	
50 PERCENT EXCEEDS	5,840		6,470		5,590	
90 PERCENT EXCEEDS	1,350		1,260		1,530	

† Change in contents, equivalent in cubic feet per second, in W. Kerr Scott Reservoir, provided by U.S. Army Corps of Engineers; High Rock Lake, Tuckertown Reservoir, and Badin Lake, provided by Yadkin, Inc.; Lake Tillery and Blewett Falls Lake, provided by Carolina Power and Light Company.
* Regulated period only (1928-2005). See REMARKS.
‡ Adjusted for change in contents.



02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC

LOCATION.--Lat 34°45'02", long 79°23'12", Scotland County, Hydrologic Unit 03040204, at downstream side of bridge near center of span on U.S. Highway 74, 2.5 mi downstream of Jordan Creek, and 4.5 mi southeast of Laurinburg.

DRAINAGE AREA.-- 83.3 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1949-54, 1959, 1962, 1968-69. June 1987 to current year.

REVISED RECORDS.--WDR NC-04-1: 1998(M), 2000(M).

GAGE.--Water-stage recorder. Elevation of gage is 170 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 600 ft^3/s by logarithmic plotting. Minimum discharge for period of record also occurred Aug. 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	63	75	89	88	115	94	52	54	173	230	39
2	157	62	68	85	84	130	94	50	70	199	239	37
3	113	61	64	80	83	134	89	48	92	136	229	33
4	78	61	62	75	92	116	83	46	101	84	196	33
5	70	63	60	71	100	93	75	45	92	119	142	31
6	65	63	61	69	104	81	69	49	73	108	96	28
7	64	61	61	66	95	74	66	50	70	98	78	27
8	64	59	61	64	84	80	70	47	67	115	70	26
9	64	57	60	63	78	89	89	44	72	144	72	26
10	63	56	64	61	78	95	102	42	69	252	87	24
11	62	55	69	60	76	93	107	40	58	265	86	23
12	61	59	71	60	71	83	101	39	52	191	93	23
13	63	97	66	60	68	76	104	39	49	129	103	23
14	65	108	61	84	67	70	117	39	46	114	78	25
15	69	112	57	102	70	66	136	39	42	76	68	26
16	72	96	56	120	68	74	150	41	38	72	74	25
17	67	80	55	152	66	104	143	39	35	72	71	24
18	64	71	55	181	63	121	114	38	35	71	72	24
19	62	66	55	164	60	144	88	33	31	88	63	23
20	61	63	54	125	60	154	77	37	27	97	59	24
21	61	62	54	97	62	136	70	63	26	76	58	69
22	61	58	54	86	69	107	64	71	25	78	62	90
23	60	64	56	81	69	98	61	65	24	102	64	95
24	59	76	61	76	79	103	58	54	23	129	58	87
25	59	80	62	72	90	113	55	49	20	133	56	63
26	59	78	68	70	97	112	53	46	21	113	53	55
27	59	71	81	69	94	101	52	41	25	78	49	52
28	61	77	90	66	104	101	51	38	35	61	48	49
29	65	81	95	64	---	103	50	35	94	84	45	46
30	66	81	94	77	---	99	50	44	124	124	41	63
31	65	---	91	85	---	94	---	55	---	210	41	---
TOTAL	2,202	2,141	2,041	2,674	2,219	3,159	2,532	1,418	1,590	3,791	2,781	1,213
MEAN	71.0	71.4	65.8	86.3	79.2	102	84.4	45.7	53.0	122	89.7	40.4
MAX	157	112	95	181	104	154	150	71	124	265	239	95
MIN	59	55	54	60	60	66	50	33	20	61	41	23
CFSM	0.85	0.86	0.79	1.04	0.95	1.22	1.01	0.55	0.64	1.47	1.08	0.49
IN.	0.98	0.96	0.91	1.19	0.99	1.41	1.13	0.63	0.71	1.69	1.24	0.54

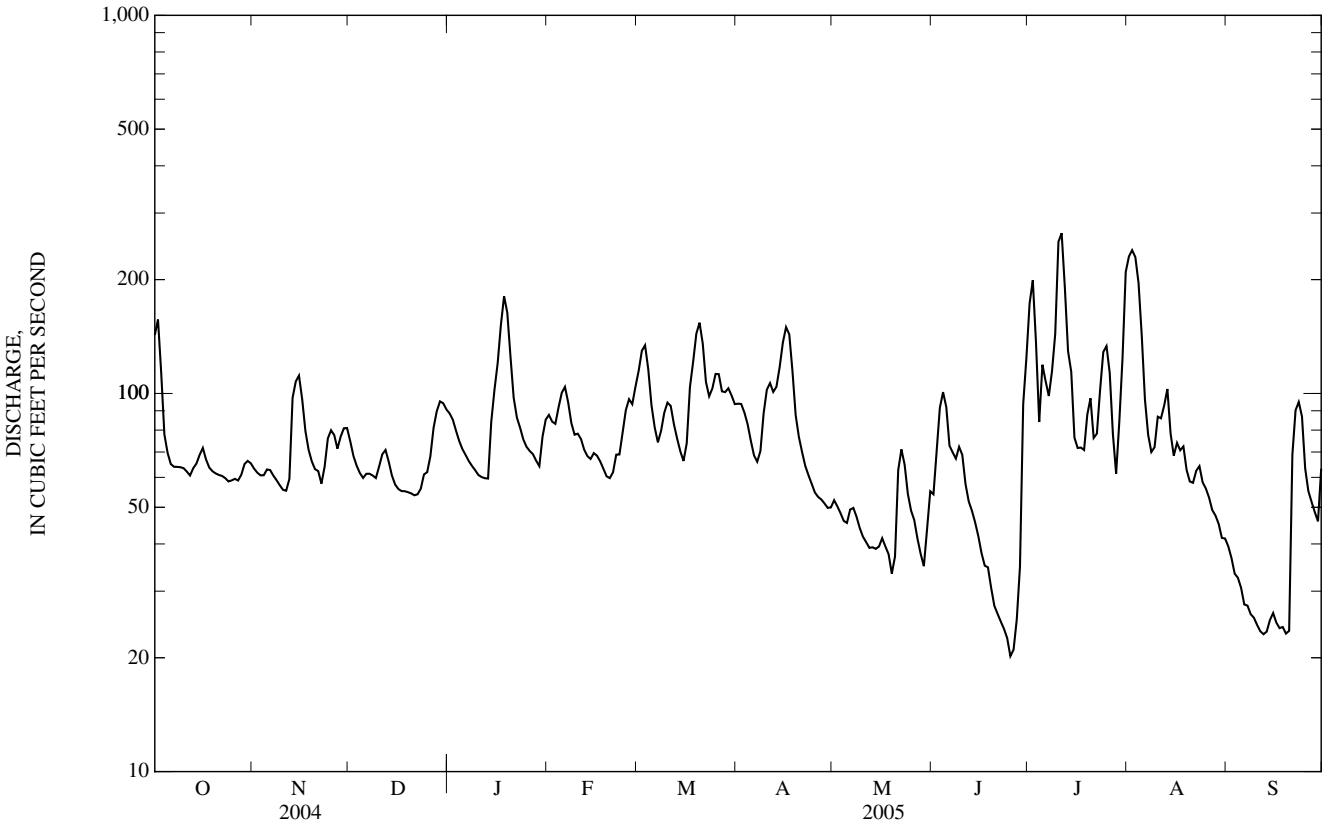
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	85.4	84.2	93.0	128	133	141	106	70.2	59.5	63.1	67.0	83.8
MAX	329	143	141	283	342	327	229	174	125	175	171	261
(WY)	(2000)	(1996)	(1990)	(2000)	(1998)	(1998)	(1998)	(2003)	(2003)	(1989)	(1991)	(2004)
MIN	26.9	29.8	34.9	69.3	62.0	55.1	58.2	21.8	14.3	6.76	11.0	20.3
(WY)	(2002)	(2002)	(2002)	(1989)	(1989)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(1990)

02132320 BIG SHOE HEEL CREEK NEAR LAURINBURG, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	32,931		27,761			
ANNUAL MEAN	90.0		76.1		92.8	
HIGHEST ANNUAL MEAN					146	2000
LOWEST ANNUAL MEAN					34.6	2002
HIGHEST DAILY MEAN	1,070	Sep 10	265	Jul 11	1,150	Oct 20, 1999
LOWEST DAILY MEAN	25	Jul 9	20	Jun 25	1.0	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	27	Jul 16	23	Jun 21	2.3	Aug 10, 2002
MAXIMUM PEAK FLOW			286	Jul 10	1,200*	Sep 10, 2004
MAXIMUM PEAK STAGE			3.97	Jul 10	5.52	Sep 10, 2004
INSTANTANEOUS LOW FLOW			19	Jun 25	0.50*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.08		0.913		1.11	
ANNUAL RUNOFF (INCHES)	14.71		12.40		15.13	
10 PERCENT EXCEEDS	155		116		172	
50 PERCENT EXCEEDS	68		68		72	
90 PERCENT EXCEEDS	33		38		27	

* See REMARKS.



02133500 DROWNING CREEK NEAR HOFFMAN, NC

LOCATION.--Lat 35°03'40", long 79°29'38", Richmond County, Hydrologic Unit 03040203, on right bank 10 ft downstream of bridge on U.S. Highway 1, 1 mi upstream from Seaboard Coast Line Railroad bridge, 0.8 mi downstream of Deep Creek, and 4 mi northeast of Hoffman.

DRAINAGE AREA.--183 mi^2.

PERIOD OF RECORD.--October 1939 to current year.

REVISED RECORDS.--WSP 972: 1941(M). WDR NC-80-1: Drainage area. WDR NC-00-1B: 1999(M).

GAGE.--Water-stage recorder. Elevation of gage is 270 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Daily discharges above 200 ft^3/s are fair, daily discharges below 200 ft^3/s are poor. Since 1984, the town of Southern Pines has withdrawn water for public supply 0.5 mi upstream from the gage. These withdrawals cause some diurnal fluctuation at low to medium flow and may affect yearly minimums. A daily average of 4.8 ft^3/s was diverted during the year. No flow for period of record also occurred on Aug. 15, 2002. Minimum discharge for current water year also occurred Sept. 13, 17, 18, 19.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	460	136	228	167	286	365	308	161	80	82	430	37
2	358	130	183	156	253	435	275	198	135	55	395	33
3	239	127	171	157	220	415	292	193	258	60	233	22
4	216	125	155	154	254	349	279	154	390	84	120	22
5	211	139	150	149	295	245	250	134	358	99	86	26
6	207	148	148	150	286	220	205	134	246	83	78	23
7	181	137	159	146	237	205	188	128	137	61	66	22
8	162	128	181	137	203	217	190	124	136	115	66	22
9	143	122	184	140	188	269	243	109	185	174	81	22
10	140	117	202	142	185	309	282	97	227	172	118	15
11	141	115	256	138	176	297	278	91	188	98	155	18
12	131	121	288	137	163	231	241	89	283	79	119	19
13	129	180	264	147	163	203	228	96	423	71	93	18
14	132	219	204	297	164	195	292	85	283	63	96	20
15	142	191	172	519	184	199	406	86	155	65	86	21
16	136	157	160	660	200	217	448	86	116	68	78	20
17	131	146	155	605	197	320	400	100	91	66	69	13
18	120	140	148	489	194	475	291	89	75	58	66	16
19	116	136	151	331	178	532	224	77	64	53	93	18
20	116	128	154	247	163	495	196	84	61	77	68	19
21	119	134	150	230	168	397	181	118	56	65	59	76
22	122	132	146	216	191	292	169	130	53	71	52	125
23	115	186	154	209	206	284	159	99	49	114	46	91
24	117	243	187	197	211	330	152	86	44	82	67	56
25	124	251	206	191	267	358	146	99	34	61	105	50
26	124	216	201	208	303	322	145	99	33	47	83	46
27	122	170	188	183	292	272	141	76	42	38	55	46
28	129	200	177	174	287	246	142	61	46	37	51	45
29	143	265	166	164	---	266	139	56	99	87	44	41
30	139	279	171	191	---	309	132	62	106	163	41	37
31	139	---	182	250	---	330	---	72	---	258	41	---
TOTAL	5,004	4,918	5,641	7,281	6,114	9,599	7,022	3,273	4,453	2,706	3,240	1,039
MEAN	161	164	182	235	218	310	234	106	148	87.3	105	34.6
MAX	460	279	288	660	303	532	448	198	423	258	430	125
MIN	115	115	146	137	163	195	132	56	33	37	41	13
CFSM	0.88	0.90	0.99	1.28	1.19	1.69	1.28	0.58	0.81	0.48	0.57	0.19
IN.	1.02	1.00	1.15	1.48	1.24	1.95	1.43	0.67	0.91	0.55	0.66	0.21

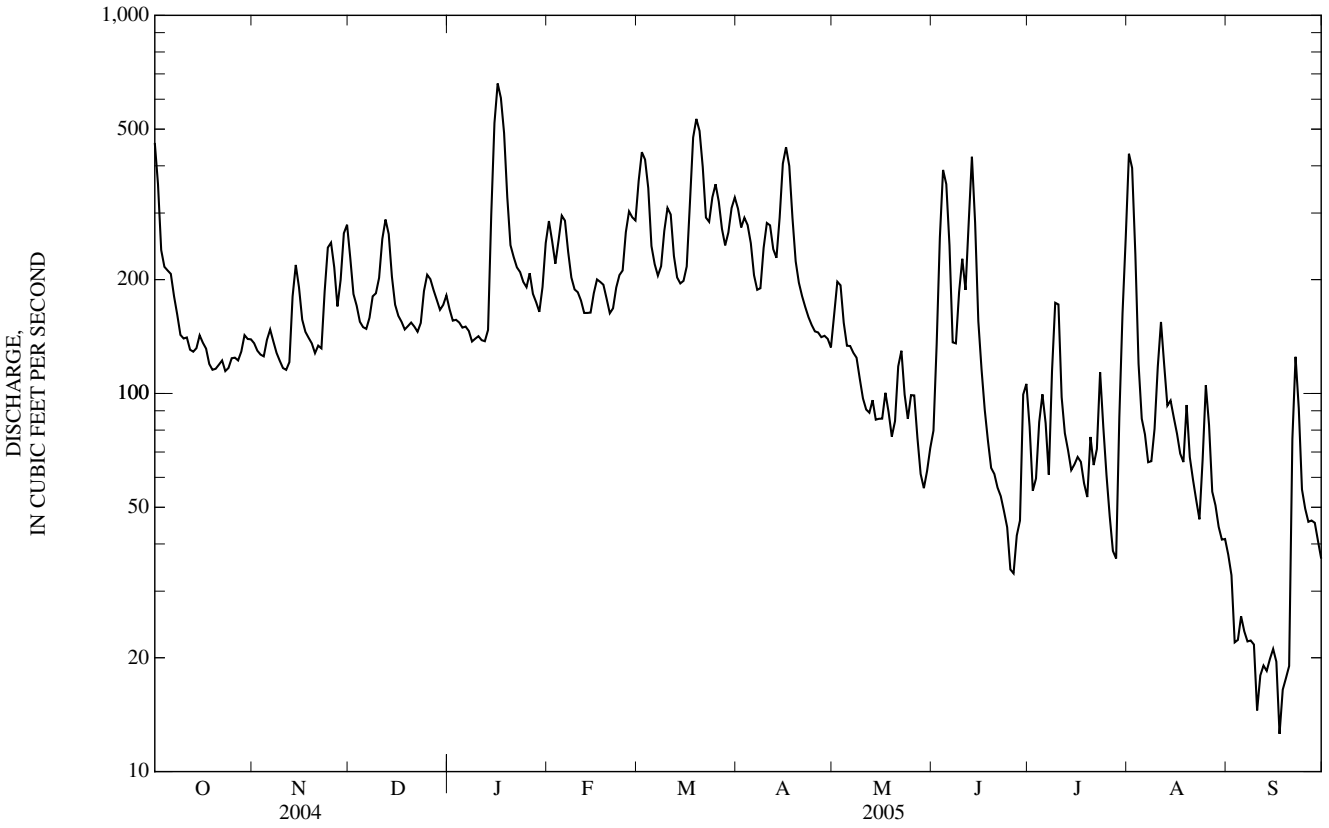
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	198	227	259	319	355	376	320	223	170	186	184	182
MAX	595	499	530	561	687	729	842	465	421	624	591	932
(WY)	(1965)	(1980)	(1973)	(1998)	(1960)	(1998)	(1973)	(1958)	(1976)	(1944)	(2003)	(1945)
MIN	48.5	76.5	107	145	147	157	111	49.2	11.0	11.2	12.8	28.8
(WY)	(1941)	(2002)	(2002)	(2001)	(1992)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1968)

02133500 DROWNING CREEK NEAR HOFFMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	65,893		60,290			
ANNUAL MEAN	180		165		249	
HIGHEST ANNUAL MEAN					397	1984
LOWEST ANNUAL MEAN					94.8	2002
HIGHEST DAILY MEAN	913	Sep 9	660	Jan 16	8,530	Sep 18, 1945
LOWEST DAILY MEAN	42	Jul 17	13	Sep 17	0.00	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	51	Jul 13	18	Sep 13	0.10	Aug 10, 2002
MAXIMUM PEAK FLOW			676	Jan 16	10,900	Sep 18, 1945
MAXIMUM PEAK STAGE			5.82	Jan 16	10.29	Sep 18, 1945
INSTANTANEOUS LOW FLOW			12*	Sep 12	0.00*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.984		0.903		1.36	
ANNUAL RUNOFF (INCHES)	13.39		12.26		18.52	
10 PERCENT EXCEEDS	317		292		475	
50 PERCENT EXCEEDS	158		146		202	
90 PERCENT EXCEEDS	68		47		75	

* See REMARKS.



02133624 LUMBER RIVER NEAR MAXTON, NC

LOCATION.--Lat 34°46'22", long 79°19'55", Robeson County, Hydrologic Unit 03040203, at downstream side of bridge, near right center of span, on State Highway 71, 2.6 mi north of Maxton, and 7.5 mi upstream from Gum Swamp.

DRAINAGE AREA.--365 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974, 1980-85. June 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 180 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred on Aug. 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	733	376	567	588	577	771	715	335	199	331	622	157
2	817	351	590	595	608	808	728	331	230	317	718	149
3	972	340	611	585	638	809	746	351	308	253	817	141
4	964	334	571	542	674	804	745	397	438	237	876	134
5	848	335	493	501	691	841	716	423	560	254	852	124
6	724	342	431	483	699	828	689	407	630	298	697	116
7	603	356	395	470	693	777	670	361	679	315	407	111
8	536	349	381	470	682	697	647	344	698	378	277	110
9	499	332	385	471	672	630	677	316	684	473	244	108
10	462	309	423	462	632	649	669	283	549	514	261	106
11	409	296	458	450	567	670	721	288	465	483	364	106
12	364	305	528	447	535	682	722	264	459	423	581	100
13	360	382	570	449	513	699	746	243	441	305	658	96
14	355	470	579	513	489	688	773	235	405	246	588	99
15	361	560	592	593	471	624	782	237	446	232	511	103
16	365	574	569	794	473	582	768	227	537	263	385	107
17	363	560	496	998	491	635	766	217	498	285	308	110
18	354	497	420	1,120	506	717	809	213	278	278	263	112
19	329	431	384	1,200	528	822	844	214	211	241	264	104
20	316	390	364	1,160	521	885	812	211	180	209	275	99
21	310	368	359	1,050	510	952	730	261	161	195	355	211
22	307	350	370	891	491	997	620	329	150	243	361	191
23	311	354	380	740	491	995	535	354	143	318	272	235
24	318	396	383	659	539	929	476	322	138	347	219	280
25	309	502	421	619	584	852	441	261	131	406	216	264
26	304	603	511	591	637	808	398	228	128	430	258	207
27	310	641	582	564	670	805	372	226	129	352	273	180
28	320	653	641	548	729	833	354	218	141	224	242	169
29	328	596	665	540	---	797	342	198	265	222	203	163
30	352	553	635	550	---	752	338	194	320	337	181	163
31	378	---	601	547	---	718	---	194	---	482	167	---
TOTAL	14,281	12,905	15,355	20,190	16,311	24,056	19,351	8,682	10,601	9,891	12,715	4,355
MEAN	461	430	495	651	583	776	645	280	353	319	410	145
MAX	972	653	665	1,200	729	997	844	423	698	514	876	280
MIN	304	296	359	447	471	582	338	194	128	195	167	96
CFSM	1.26	1.18	1.36	1.78	1.60	2.13	1.77	0.77	0.97	0.87	1.12	0.40
IN.	1.46	1.32	1.56	2.06	1.66	2.45	1.97	0.88	1.08	1.01	1.30	0.44

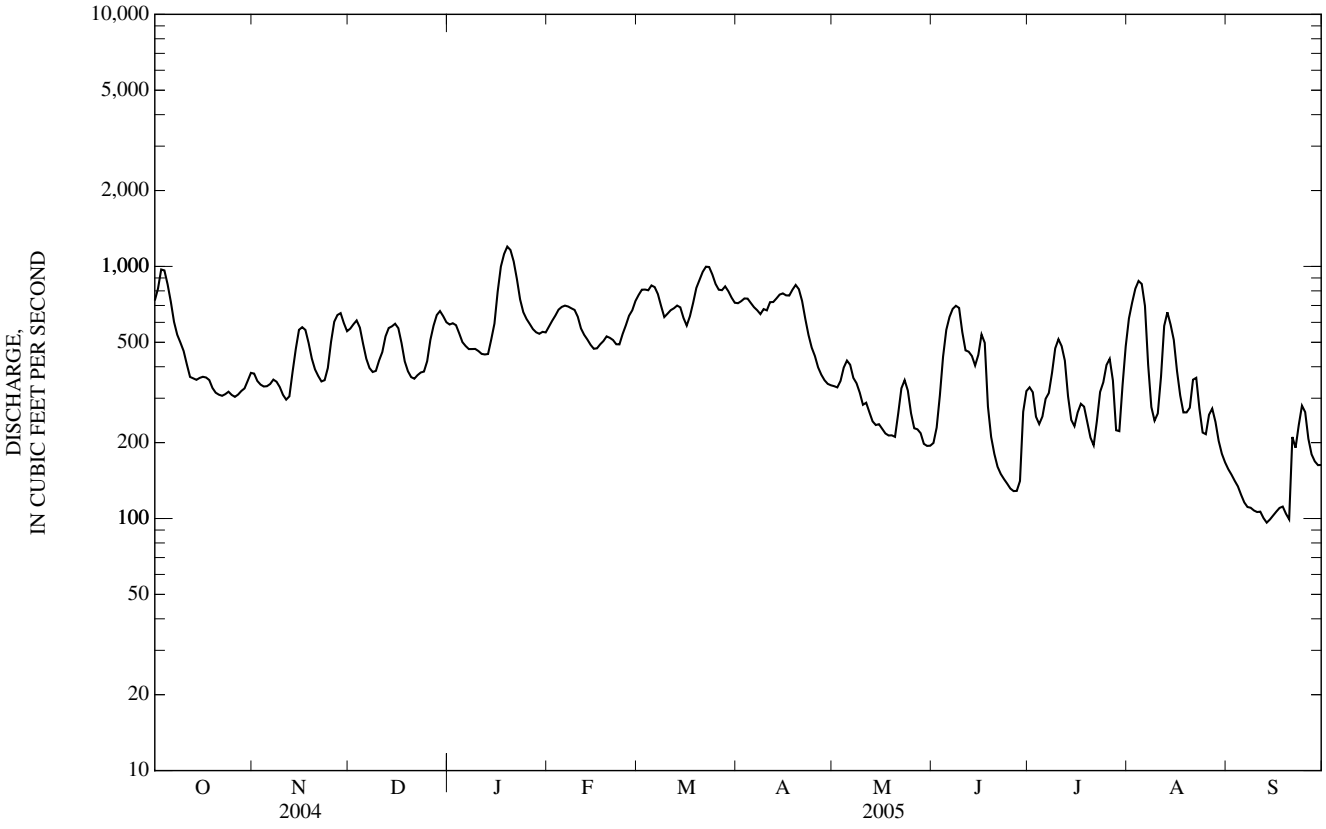
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2005, BY WATER YEAR (WY)

MEAN	412	438	481	609	641	699	592	386	328	300	334	399
MAX	827	763	762	926	1,205	1,267	1,144	932	1,022	710	1,356	1,158
(WY)	(2000)	(2004)	(2004)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	184	166	220	364	300	363	303	135	67.6	63.2	51.5	130
(WY)	(1988)	(2002)	(2002)	(1992)	(1992)	(1992)	(1992)	(2002)	(2002)	(2002)	(2002)	(1990)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1987 - 2005	
ANNUAL TOTAL	185,615		168,693			
ANNUAL MEAN	507		462		468	
HIGHEST ANNUAL MEAN					875	2003
LOWEST ANNUAL MEAN					243	2002
HIGHEST DAILY MEAN	2,250	Sep 11	1,200	Jan 19	3,070	Mar 22, 1998
LOWEST DAILY MEAN	116	Jul 19	96	Sep 13	28	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	136	Jul 15	102	Sep 10	32	Aug 10, 2002
MAXIMUM PEAK FLOW			1,210	Jan 19	3,380	Mar 22, 1998
MAXIMUM PEAK STAGE			10.95	Jan 19	13.52	Mar 22, 1998
INSTANTANEOUS LOW FLOW			93	Sep 13	27*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.39		1.27		1.28	
ANNUAL RUNOFF (INCHES)	18.92		17.19		17.44	
10 PERCENT EXCEEDS	897		772		865	
50 PERCENT EXCEEDS	456		431		410	
90 PERCENT EXCEEDS	173		193		155	

* See REMARKS.

02133624 LUMBER RIVER NEAR MAXTON, NC—Continued



02134170 LUMBER RIVER AT LUMBERTON, NC

LOCATION.--Lat 34°37'13", long 79°00'40", Robeson County, Hydrologic Unit 03040203, on right bank at upstream side of bridge on Fifth Street in Lumberton and 1.0 mi below Saddletree Swamp.

DRAINAGE AREA.--708 mi^2.

PERIOD OF RECORD.--Occasional measurements water years 1954, 1959, 1967. July 2000 to current year.

REVISED RECORDS.--WRD NC-03-1B:(M)

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred Aug. 14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	863	395	718	732	723	975	1,170	483	340	493	1,120	242
2	815	400	710	727	718	1,040	1,190	471	376	569	1,010	221
3	799	406	680	700	730	1,070	1,180	446	402	614	918	206
4	822	410	653	673	779	1,080	1,120	426	442	640	936	195
5	874	408	642	662	818	1,080	1,050	423	461	618	897	183
6	947	396	650	655	836	1,060	996	464	481	548	861	170
7	1,010	383	647	633	832	1,010	944	475	497	490	860	160
8	992	376	621	600	817	1,010	913	480	524	501	857	152
9	919	374	583	568	808	1,020	1,000	472	569	531	812	146
10	822	376	569	541	830	999	983	445	619	565	730	140
11	729	378	569	518	813	936	871	418	662	704	591	136
12	666	397	570	504	775	847	790	397	683	756	495	134
13	641	453	569	502	728	782	914	375	658	744	502	132
14	613	463	570	604	680	757	1,230	362	584	809	492	161
15	575	492	578	789	637	739	1,460	348	518	792	503	161
16	553	522	594	923	607	781	1,450	336	465	640	556	144
17	535	557	602	944	583	935	1,360	323	420	504	589	137
18	516	600	607	927	559	1,040	1,260	320	399	430	547	138
19	506	631	603	948	542	1,070	1,170	308	404	411	490	141
20	497	631	580	1,050	532	1,060	1,080	305	396	392	448	142
21	483	601	541	1,180	540	1,040	1,030	319	332	391	408	142
22	465	553	502	1,290	573	1,080	1,000	317	270	410	378	160
23	441	584	480	1,320	587	1,230	966	324	234	405	417	203
24	421	620	472	1,240	658	1,290	894	337	212	374	419	236
25	407	595	464	1,090	729	1,310	795	349	198	372	380	252
26	399	558	554	928	750	1,280	705	355	189	386	330	268
27	393	539	638	794	761	1,210	634	342	191	394	298	281
28	386	594	675	711	865	1,170	579	311	199	397	288	263
29	384	640	699	661	---	1,180	532	286	307	547	292	232
30	390	689	711	687	---	1,180	496	313	393	819	289	228
31	391	---	720	710	---	1,170	---	328	---	802	269	---
TOTAL	19,254	15,021	18,771	24,811	19,810	32,431	29,762	11,658	12,425	17,048	17,982	5,506
MEAN	621	501	606	800	708	1,046	992	376	414	550	580	184
MAX	1,010	689	720	1,320	865	1,310	1,460	483	683	819	1,120	281
MIN	384	374	464	502	532	739	496	286	189	372	269	132
CFSM	0.88	0.71	0.86	1.13	1.00	1.48	1.40	0.53	0.58	0.78	0.82	0.26
IN.	1.01	0.79	0.99	1.30	1.04	1.70	1.56	0.61	0.65	0.90	0.94	0.29

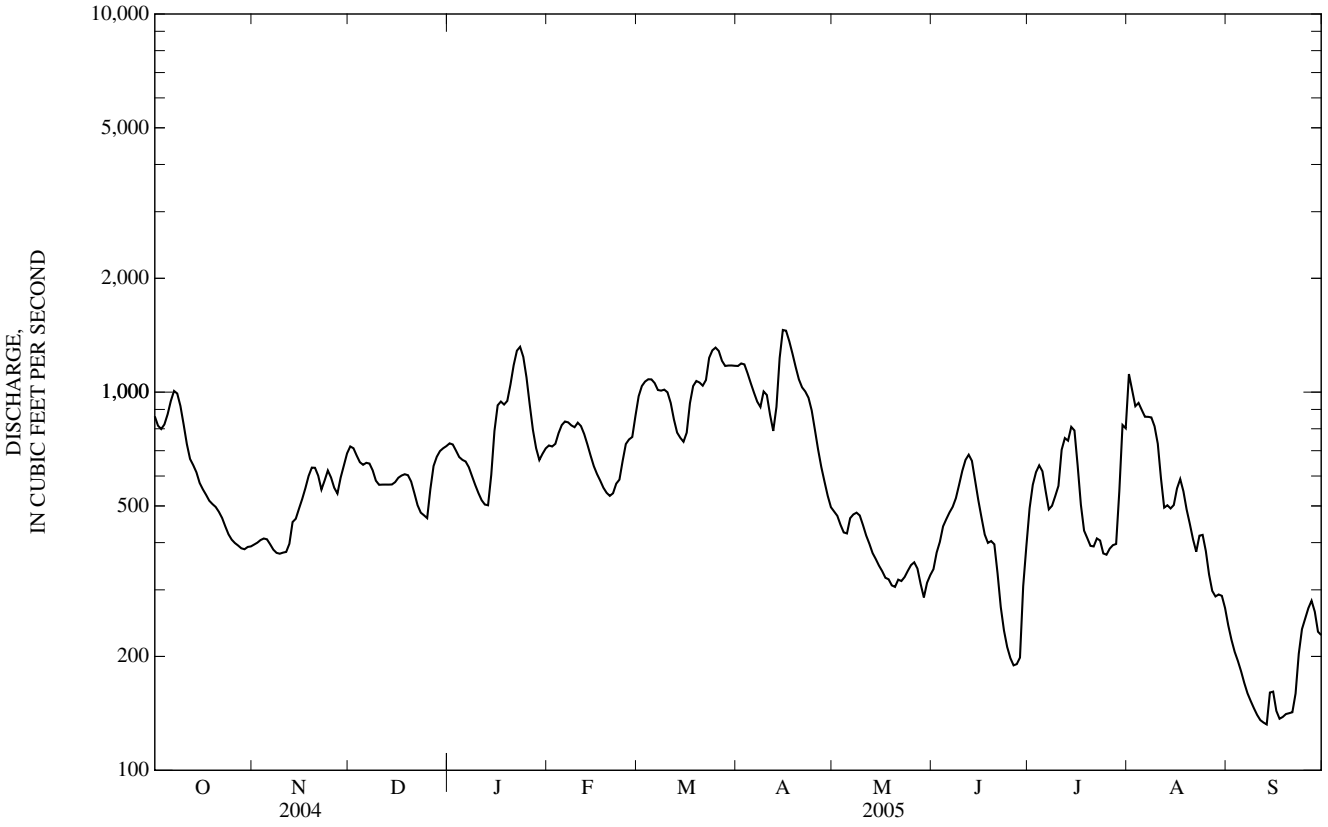
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	559	577	697	682	852	1,121	958	533	563	514	602	958
MAX	933	976	1,074	800	1,228	1,905	1,638	1,207	1,292	1,311	1,696	2,915
(WY)	(2004)	(2004)	(2004)	(2005)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	255	222	286	551	681	499	550	179	89.7	79.0	84.7	164
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02134170 LUMBER RIVER AT LUMBERTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	320,912		224,479			
ANNUAL MEAN	877		615		717	
HIGHEST ANNUAL MEAN					1,153	2003
LOWEST ANNUAL MEAN					301	2002
HIGHEST DAILY MEAN	7,030	Sep 11	1,460	Apr 15	7,030	Sep 11, 2004
LOWEST DAILY MEAN	181	Jul 22	132	Sep 13	51	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	202	Jul 18	143	Sep 7	55	Aug 11, 2002
MAXIMUM PEAK FLOW			1,480	Apr 15	7,420	Sep 11, 2004
MAXIMUM PEAK STAGE			12.47	Apr 15	18.29	Sep 11, 2004
INSTANTANEOUS LOW FLOW			130	Sep 14	51*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.24		0.869		1.01	
ANNUAL RUNOFF (INCHES)	16.86		11.79		13.76	
10 PERCENT EXCEEDS	1,750		1,040		1,380	
50 PERCENT EXCEEDS	639		570		586	
90 PERCENT EXCEEDS	293		270		176	

* See REMARKS.



02134480 BIG SWAMP NEAR TARHEEL, NC

LOCATION.--Lat 34°42'38", long 78°50'11", Robeson County, Hydrologic Unit 03040203, on left bank at downstream side of bridge on Secondary Road 1004, and 2.8 mi southwest of Tarheel.

DRAINAGE AREA.--229 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-54, 1957-58, 1962-68. October 1985 to current year.

REVISED RECORDS.--WDR NC-98-1(M).

GAGE.--Water-stage recorder. Elevation of gage is 105 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except for discharges below 50 ft^3/s and those for estimated daily discharges, which are poor. No flow also occurred Sept. 1-4, 1993, June 12-13, July 3-27, Aug. 7-28, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	262	67	164	217	168	260	257	64	27	94	270	e13
2	267	67	168	206	177	259	276	61	32	111	281	e11
3	263	66	168	195	194	271	290	57	40	88	271	e9.6
4	256	65	161	184	211	276	290	53	56	69	247	e8.3
5	241	68	149	172	210	262	290	51	67	56	213	e7.3
6	220	65	137	160	206	245	288	66	71	48	176	e6.8
7	199	65	127	148	207	228	276	72	64	e54	121	e6.8
8	182	63	117	140	205	217	263	77	52	e56	74	e6.6
9	166	61	110	133	198	207	253	77	53	e56	75	e6.1
10	150	58	116	125	194	196	236	72	71	e57	96	e5.5
11	130	56	123	117	186	191	215	63	74	e61	84	e5.0
12	112	60	126	109	178	192	203	53	62	e73	76	e4.8
13	106	101	132	104	169	190	221	46	55	e101	71	e5.3
14	102	113	139	130	162	184	281	42	54	129	64	e7.5
15	99	125	138	171	156	173	352	39	47	151	61	e10
16	101	143	128	192	148	170	479	39	40	158	61	e11
17	100	159	116	243	138	192	519	36	34	134	54	e10
18	101	163	107	301	126	205	440	37	30	77	44	e9.3
19	102	153	101	316	115	229	369	36	27	55	39	e8.2
20	96	135	94	299	107	272	311	35	e28	53	37	e7.6
21	90	119	88	271	104	293	269	36	e32	44	36	e7.5
22	86	107	85	242	109	292	237	35	e35	44	33	e7.9
23	82	122	87	217	109	301	206	35	e34	61	e30	e8.7
24	78	135	85	197	133	301	177	35	e30	58	e28	e10
25	75	137	83	185	162	293	142	34	e28	48	e27	e12
26	73	134	107	173	176	293	107	32	e27	39	e26	e13
27	71	134	137	161	197	286	86	31	32	33	e25	e14
28	70	160	156	148	242	284	77	28	32	28	e22	e15
29	69	166	176	140	---	274	70	26	51	63	e18	e14
30	68	164	206	152	---	259	66	25	68	246	e16	e13
31	67	---	222	165	---	251	---	26	---	253	e14	---
TOTAL	4,084	3,231	4,053	5,713	4,687	7,546	7,546	1,419	1,353	2,598	2,690	274.8
MEAN	132	108	131	184	167	243	252	45.8	45.1	83.8	86.8	9.16
MAX	267	166	222	316	242	301	519	77	74	253	281	15
MIN	67	56	83	104	104	170	66	25	27	28	14	4.8
CFSM	0.58	0.47	0.57	0.80	0.73	1.06	1.10	0.20	0.20	0.37	0.38	0.04
IN.	0.66	0.52	0.66	0.93	0.76	1.23	1.23	0.23	0.22	0.42	0.44	0.04

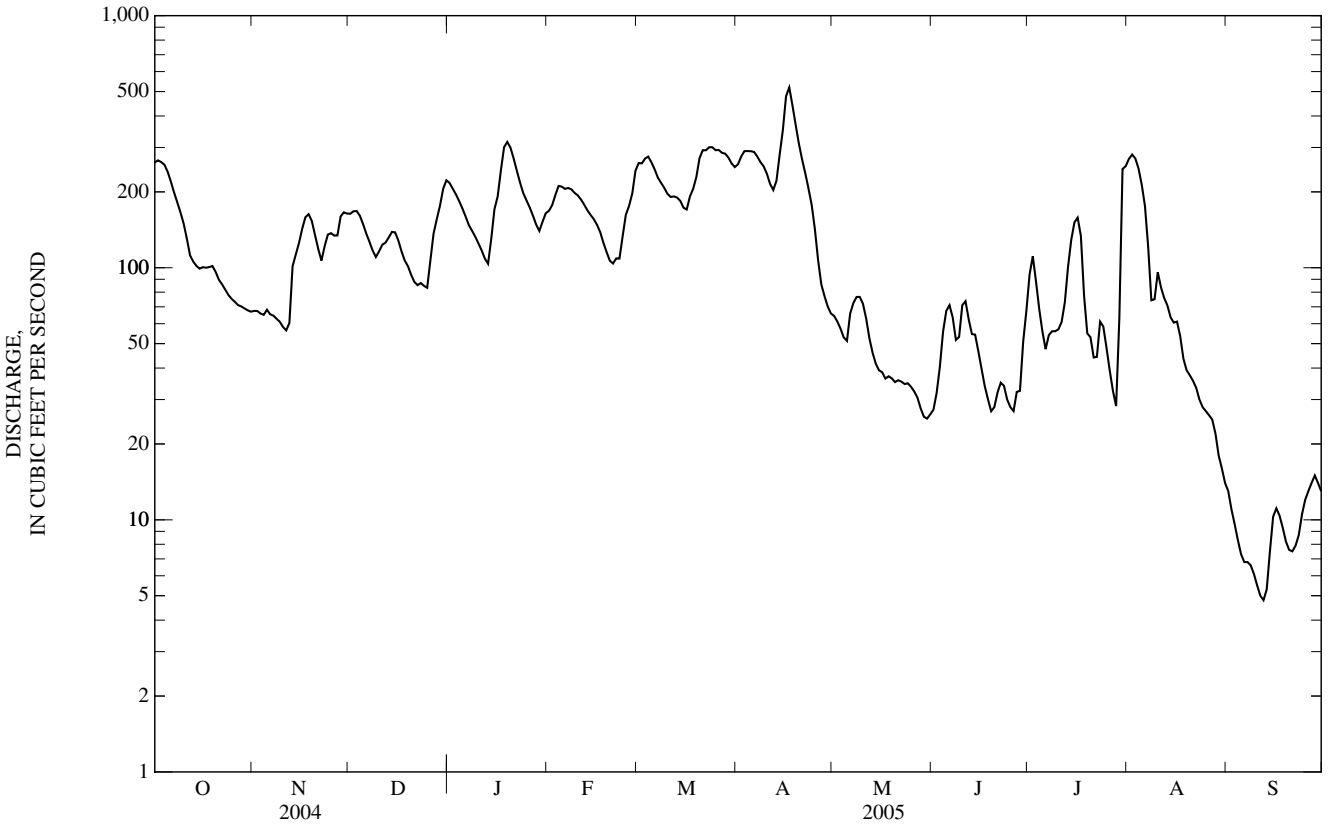
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)

MEAN	179	164	217	381	372	407	268	120	104	102	137	221
MAX	1,094	382	396	1,001	1,418	1,194	571	362	474	469	551	923
(WY)	(2000)	(1993)	(1990)	(1993)	(1998)	(1998)	(1993)	(1999)	(1995)	(2003)	(2003)	(1999)
MIN	3.43	15.3	30.1	92.9	127	121	66.8	11.5	2.05	0.07	8.42	6.98
(WY)	(1999)	(1999)	(2002)	(1986)	(1986)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1997)

02134480 BIG SWAMP NEAR TARHEEL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986 - 2005	
ANNUAL TOTAL	80,688		45,194.8			
ANNUAL MEAN	220		124		222	
HIGHEST ANNUAL MEAN					395	1998
LOWEST ANNUAL MEAN					62.9	2002
HIGHEST DAILY MEAN	1,580	Sep 13	519	Apr 17	3,900	Feb 6, 1998
LOWEST DAILY MEAN	13	Jul 17	4.8	Sep 12	0.00	Aug 31, 1993
ANNUAL SEVEN-DAY MINIMUM	16	Jul 14	5.7	Sep 7	0.00	Jul 3, 2002
MAXIMUM PEAK FLOW			594	Apr 17	3,510	Sep 17, 1999
MAXIMUM PEAK STAGE			10.99	Apr 17	14.34	Sep 17, 1999
INSTANTANEOUS LOW FLOW					0.00*	Aug 31, 1993
ANNUAL RUNOFF (CFSM)	0.963		0.541		0.969	
ANNUAL RUNOFF (INCHES)	13.11		7.34		13.17	
10 PERCENT EXCEEDS	529		262		494	
50 PERCENT EXCEEDS	154		104		139	
90 PERCENT EXCEEDS	43		26		13	

* See REMARKS.
e Estimated.



02134500 LUMBER RIVER AT BOARDMAN, NC

LOCATION.--Lat 34°26'33", long 78°57'37", Robeson County, Hydrologic Unit 03040203, on right bank 150 ft downstream of bridge on U.S. Highway 74, 1 mi downstream of Seaboard Coast Line Railroad bridge at Boardman, 1.5 mi downstream of Big Swamp, and 40.5 mi upstream from mouth.

DRAINAGE AREA.--1,228 mi^2.

PERIOD OF RECORD.--September 1929 to current year.

REVISED RECORDS.--WSP 1303: 1932(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 72.05 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Sept. 30, 1936, nonrecording gage at site 100 ft downstream at same datum. Sept. 30, 1936, to June 8, 1943, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record also occurred Sept. 19, 1999. Minimum discharge for current water year also occurred Sept. 14. Minimum discharge for period of record also occurred Aug. 15, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1928 reached a stage of 11.8 ft, from floodmark witnessed by local resident; discharge, 25,000 ft^3/s. Flood of July 22, 1901, the highest during the period 1896-1913, reached a stage of 10.8 ft, from observations by Butters Lumber Co.; discharge, 14,800 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,640	512	1,020	1,010	1,160	1,290	1,610	924	431	503	729	372
2	1,570	508	1,050	1,030	1,150	1,350	1,650	818	450	555	919	348
3	1,470	506	1,080	1,050	1,170	1,410	1,660	717	470	590	1,060	319
4	1,380	507	1,070	1,070	1,200	1,450	1,650	637	598	628	1,190	292
5	1,290	509	1,040	1,060	1,200	1,460	1,620	592	713	672	1,260	268
6	1,220	507	1,000	1,060	1,210	1,460	1,580	598	803	711	1,300	250
7	1,160	504	973	1,040	1,220	1,460	1,530	588	751	736	1,370	234
8	1,150	499	946	1,030	1,230	1,460	1,510	577	699	711	1,350	216
9	1,160	493	934	1,000	1,230	1,440	1,500	569	669	643	1,350	201
10	1,170	486	950	974	1,230	1,410	1,500	559	705	590	1,440	189
11	1,150	482	933	934	1,220	1,400	1,500	551	727	566	1,500	178
12	1,100	495	882	894	1,220	1,380	1,480	543	766	564	1,450	170
13	1,030	544	843	867	1,210	1,330	1,460	529	796	601	1,310	165
14	949	567	813	876	1,180	1,270	1,480	515	813	705	1,170	176
15	886	576	789	895	1,150	1,210	1,550	500	826	808	1,050	234
16	835	576	767	962	1,110	1,200	1,700	494	794	871	947	259
17	775	582	755	1,080	1,060	1,260	1,860	472	701	900	857	251
18	722	597	753	1,170	1,020	1,300	1,930	451	608	897	804	229
19	685	618	758	1,210	974	1,350	1,920	429	539	818	781	213
20	653	647	760	1,230	942	1,400	1,850	422	526	703	761	206
21	630	676	760	1,260	919	1,420	1,760	530	500	644	722	202
22	613	700	751	1,320	899	1,420	1,680	577	475	618	658	198
23	598	923	743	1,400	871	1,470	1,610	626	438	584	595	198
24	585	1,030	721	1,490	987	1,510	1,530	599	366	551	548	214
25	574	1,080	688	1,560	1,070	1,570	1,450	542	333	512	532	244
26	560	1,060	709	1,560	1,120	1,610	1,370	501	304	477	532	270
27	547	1,030	758	1,490	1,160	1,650	1,290	476	281	454	510	285
28	537	1,030	819	1,380	1,240	1,660	1,190	457	312	438	498	297
29	530	997	902	1,280	---	1,660	1,090	435	384	428	450	303
30	524	990	958	1,240	---	1,630	1,000	418	468	437	410	319
31	519	---	991	1,190	---	1,600	---	422	---	529	388	---
TOTAL	28,212	20,231	26,916	35,612	31,352	44,490	46,510	17,068	17,246	19,444	28,441	7,300
MEAN	910	674	868	1,149	1,120	1,435	1,550	551	575	627	917	243
MAX	1,640	1,080	1,080	1,560	1,240	1,660	1,930	924	826	900	1,500	372
MIN	519	482	688	867	871	1,200	1,000	418	281	428	388	165
CFSM	0.74	0.55	0.71	0.94	0.91	1.17	1.26	0.45	0.47	0.51	0.75	0.20
IN.	0.85	0.61	0.82	1.08	0.95	1.35	1.41	0.52	0.52	0.59	0.86	0.22

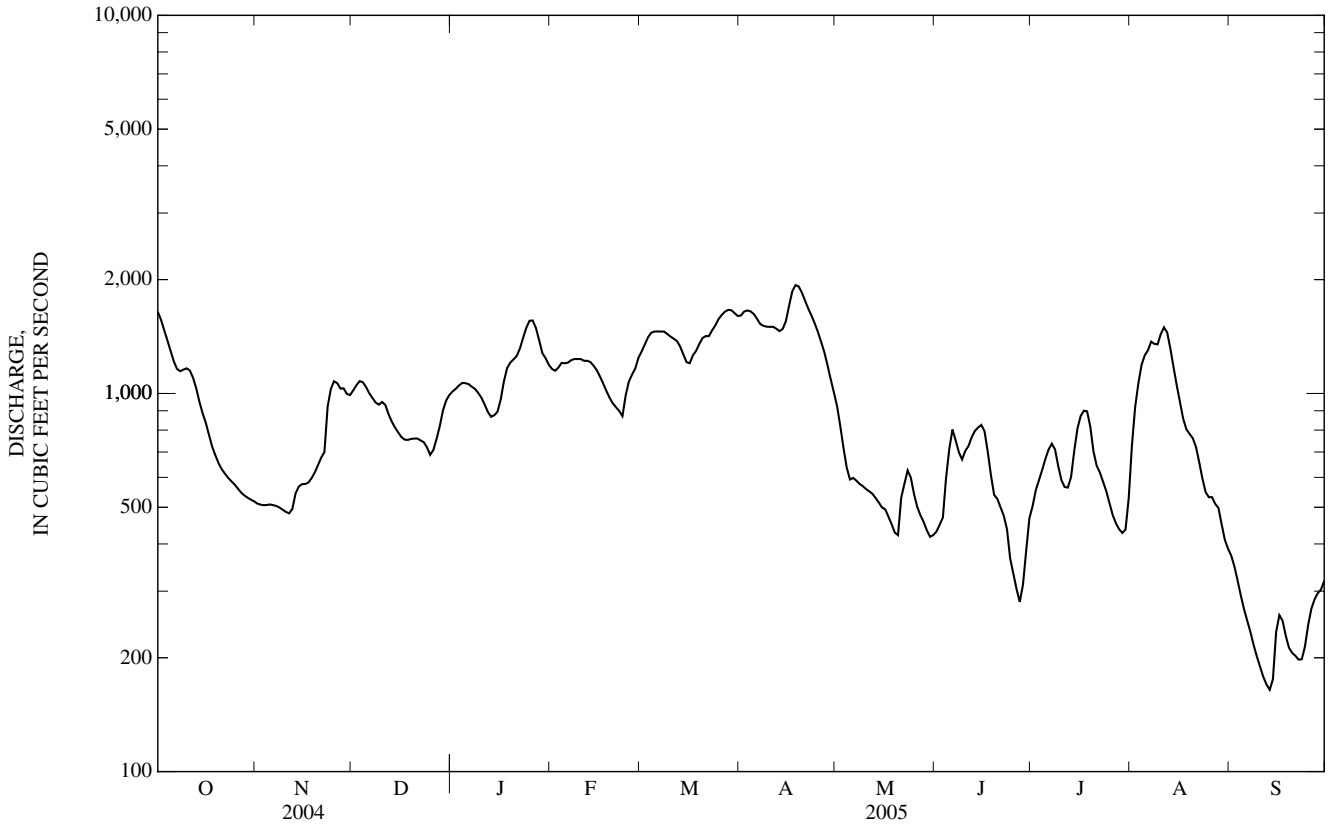
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2005, BY WATER YEAR (WY)

MEAN	893	888	1,289	1,835	2,194	2,322	1,840	985	759	807	929	1,080
MAX	5,496	4,142	3,977	4,575	5,944	5,259	5,688	3,430	2,587	2,897	3,741	4,930
(WY)	(2000)	(1948)	(1949)	(1993)	(1998)	(1983)	(1936)	(1978)	(1969)	(2003)	(1974)	(1999)
MIN	141	211	237	262	429	611	420	249	110	80.8	84.5	92.2
(WY)	(1941)	(1934)	(1934)	(1934)	(1934)	(1934)	(1981)	(2002)	(2002)	(2002)	(2002)	(1968)

02134500 LUMBER RIVER AT BOARDMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1930 - 2005	
ANNUAL TOTAL	435,865		322,822			
ANNUAL MEAN	1,191		884		1,314	
HIGHEST ANNUAL MEAN					2,391	1965
LOWEST ANNUAL MEAN					405	2002
HIGHEST DAILY MEAN	7,000	Sep 13	1,930	Apr 18	13,400	Sep 24, 1945
LOWEST DAILY MEAN	233	Jul 23	165	Sep 13	42	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	246	Jul 22	185	Sep 8	48	Aug 18, 2002
MAXIMUM PEAK FLOW			1,940	Apr 18	13,400*	Sep 24, 1945
MAXIMUM PEAK STAGE			6.73	Apr 18	10.70	Sep 19, 1999
INSTANTANEOUS LOW FLOW			163*	Sep 13	40*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.970		0.720		1.07	
ANNUAL RUNOFF (INCHES)	13.20		9.78		14.54	
10 PERCENT EXCEEDS	2,330		1,480		2,800	
50 PERCENT EXCEEDS	940		818		958	
90 PERCENT EXCEEDS	402		386		293	

* See REMARKS.



351812080445545 CRN01

LOCATION.--Lat 35°18'11", long 80°45'00", Mecklenburg County, Hydrologic Unit 03040105, Fire Station 27, Ken Hoffman Drive, Charlotte, NC.

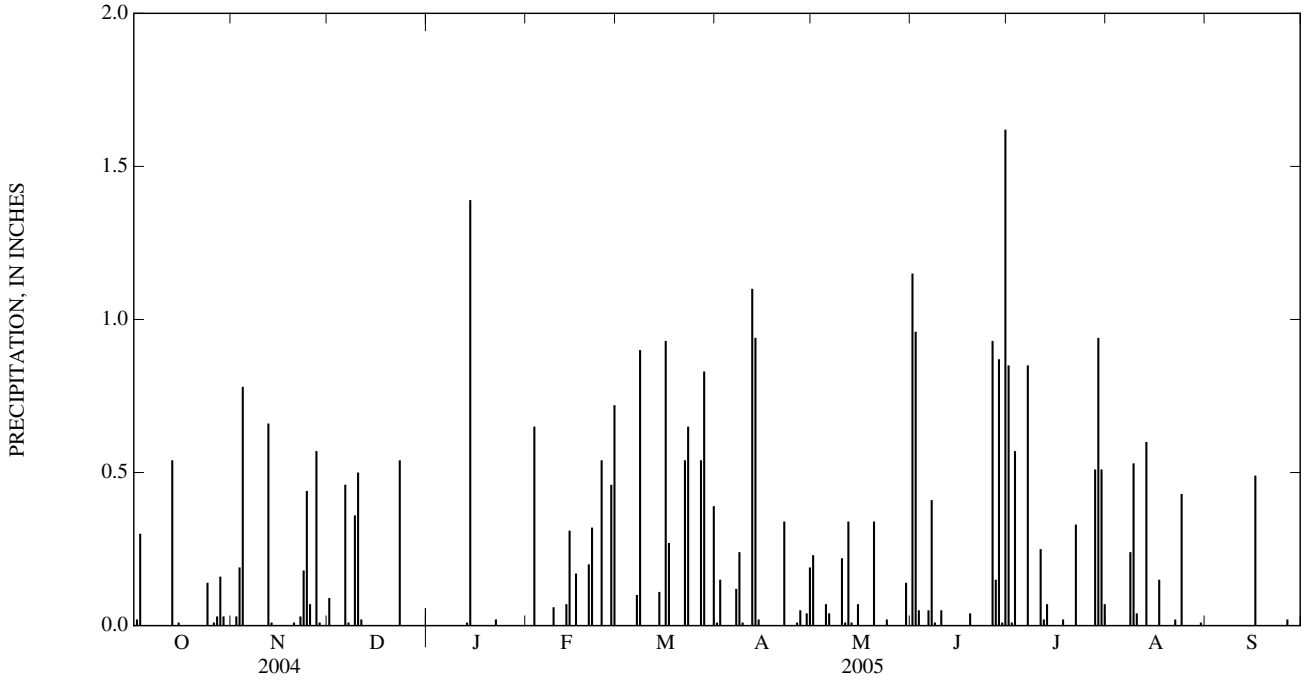
PERIOD OF RECORD.--September 1992 to current year. Records for period September 1992 to September 1998 published in USGS OFR 96-150, 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.01	0.23	1.15	0.85	0.00	0.00
2	0.02	0.03	0.00	0.00	0.00	0.00	0.15	0.00	0.96	0.01	0.00	0.00
3	0.30	0.19	0.00	0.00	0.65	0.00	0.00	0.00	0.05	0.57	0.00	0.00
4	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.10	0.12	0.00	0.41	0.85	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.90	0.24	0.00	0.01	0.00	0.24	0.00
9	0.00	0.00	0.36	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.53	0.00
10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.22	0.05	0.00	0.04	0.00
11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.25	0.00	0.00
12	0.00	0.66	0.00	0.00	0.00	0.00	1.10	0.34	0.00	0.02	0.00	0.00
13	0.54	0.01	0.00	0.01	0.07	0.00	0.94	0.01	0.00	0.07	0.60	0.00
14	0.00	0.00	0.00	1.39	0.31	0.11	0.02	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.17	0.93	0.00	0.00	0.00	0.00	0.00	0.49
17	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.15	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.34	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.02	0.00	0.54	0.34	0.00	0.00	0.33	0.02	0.00
23	0.00	0.18	0.54	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00
24	0.14	0.44	0.00	0.00	0.54	0.00	0.00	0.02	0.00	0.00	0.43	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.93	0.00	0.00	0.02
27	0.03	0.57	0.00	0.00	0.46	0.54	0.05	0.00	0.15	0.00	0.00	0.00
28	0.16	0.01	0.00	0.00	0.72	0.83	0.00	0.00	0.87	0.51	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.04	0.00	0.01	0.94	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.19	0.14	1.62	0.51	0.01	0.00
31	0.00	---	0.00	0.00	---	0.39	---	0.00	---	0.07	0.00	---
TOTAL	1.24	2.98	1.98	---	3.50	5.26	3.22	1.49	6.30	5.00	2.02	0.51



351540080430045 CRN16

LOCATION.--Lat 35°15'42", long 80°43'08", Mecklenburg County, Hydrologic Unit 03040105, Reedy Creek Park Environmental Center, Rocky River Road, Charlotte, NC.

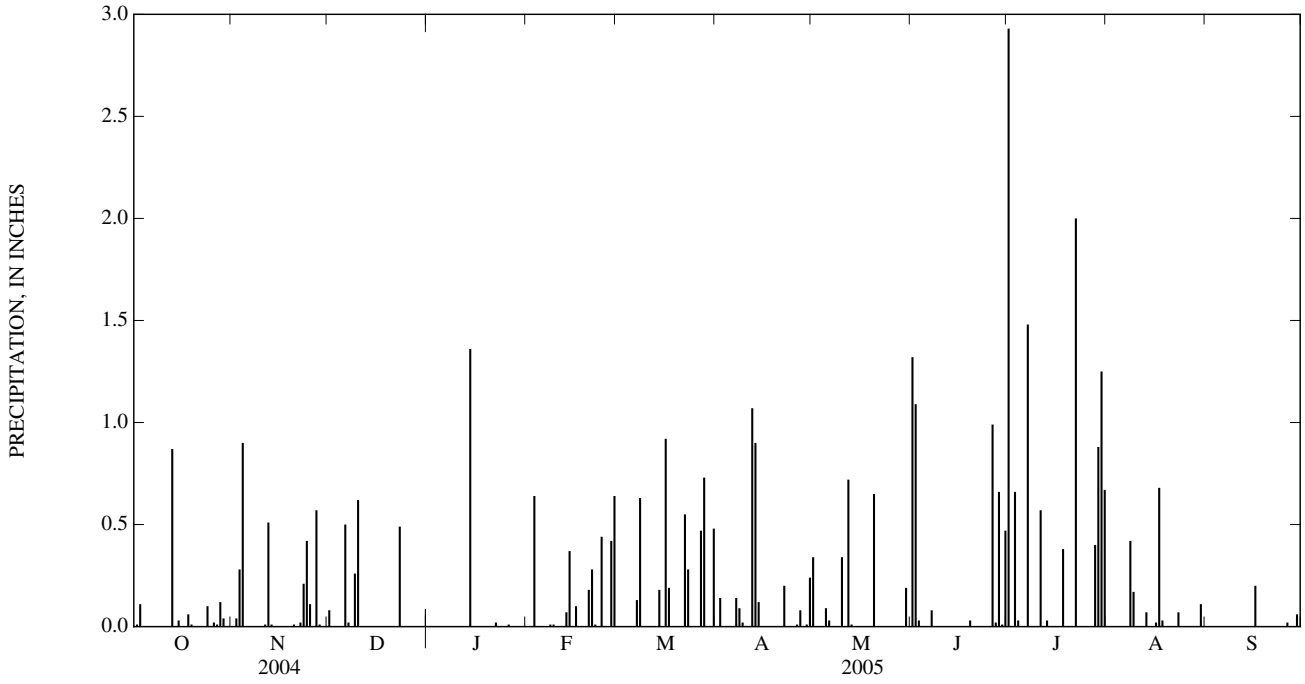
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.34	1.32	2.93	0.00	0.00
2	0.01	0.04	0.00	0.00	0.00	0.00	0.14	0.00	1.09	0.00	0.00	0.00
3	0.11	0.28	0.00	0.00	0.64	0.00	0.00	0.00	0.03	0.66	0.00	0.00
4	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.13	0.14	0.00	0.08	1.48	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.63	0.09	0.00	0.00	0.00	0.42	0.00
9	0.00	0.00	0.26	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.17	0.00
10	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	1.07	0.72	0.00	0.00	0.00	0.00
13	0.87	0.01	0.00	0.00	0.07	0.00	0.90	0.01	0.00	0.03	0.07	0.00
14	0.00	0.00	0.00	1.36	0.37	0.18	0.12	0.00	0.00	0.00	0.00	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.10	0.92	0.00	0.00	0.00	0.00	0.02	0.20
17	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.68	0.00
18	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.03	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.65	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.02	0.01	0.55	0.20	0.00	0.00	2.00	0.00	0.00
23	0.00	0.21	0.49	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.07	0.00
24	0.10	0.42	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.02	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.99	0.00	0.00	0.02
27	0.01	0.57	0.00	0.00	0.42	0.47	0.08	0.00	0.02	0.00	0.00	0.00
28	0.12	0.01	0.00	0.00	0.64	0.73	0.00	0.00	0.66	0.40	0.00	0.00
29	0.04	0.00	0.00	---	---	0.00	0.01	0.00	0.01	0.88	0.00	0.06
30	0.00	0.00	0.00	---	---	0.00	0.24	0.19	0.47	1.25	0.11	0.00
31	0.00	---	0.00	0.00	---	0.48	---	0.00	---	0.67	0.00	---
TOTAL	1.38	3.10	1.97	---	3.17	4.56	3.02	2.37	4.70	11.28	1.57	0.28



351302080412701 CRN23

LOCATION.--Lat 35°13'01", long 80°41'27", Mecklenburg County, Hydrologic Unit 03040105, Charles T. Myers golf course, Harrisburg Road, Charlotte, NC.

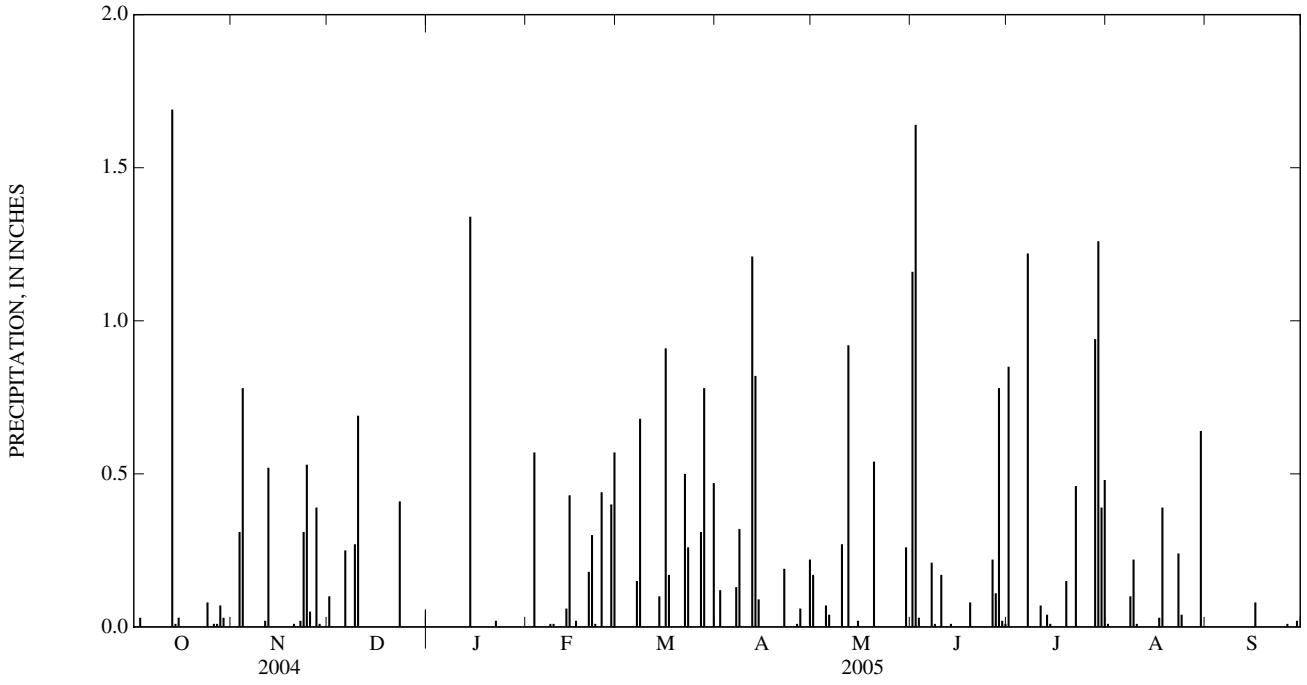
PERIOD OF RECORD.--October 1988 to current year. Records for period October 1988 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.17	1.16	0.85	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	1.64	0.00	0.00	0.00
3	0.03	0.31	0.00	0.00	0.57	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.15	0.13	0.00	0.21	1.22	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.68	0.32	0.00	0.01	0.00	0.10	0.00
9	0.00	0.00	0.27	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.22	0.00
10	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.27	0.17	0.00	0.01	0.00
11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	1.21	0.92	0.00	0.00	0.00	0.00
13	1.69	0.00	0.00	0.00	0.06	0.00	0.82	0.00	0.01	0.04	0.00	0.00
14	0.01	0.00	0.00	1.34	0.43	0.10	0.09	0.00	0.00	0.01	0.00	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.02	0.91	0.00	0.00	0.00	0.00	0.00	0.08
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.03	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.15	0.00	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.54	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.02	0.01	0.50	0.19	0.00	0.00	0.46	0.00	0.00
23	0.00	0.31	0.41	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.24	0.00
24	0.08	0.53	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.04	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.00	0.01
27	0.01	0.39	0.00	0.00	0.40	0.31	0.06	0.00	0.11	0.00	0.00	0.00
28	0.07	0.01	0.00	0.00	0.57	0.78	0.00	0.00	0.78	0.94	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.00	0.00	0.02	1.26	0.00	0.02
30	0.00	0.00	0.00	---	---	0.00	0.22	0.26	0.01	0.39	0.64	0.00
31	0.00	---	0.00	0.00	---	0.47	---	0.00	---	0.48	0.00	---
TOTAL	1.96	2.95	1.72	---	3.00	4.33	3.17	2.29	4.45	5.87	1.68	0.11



352432080473745 CRN26

LOCATION.--Lat 35°24'33", long 80°47'38", Mecklenburg County, Hydrologic Unit 03040105, Bradford Airfield, Huntersville-Concord Road, Huntersville, NC.

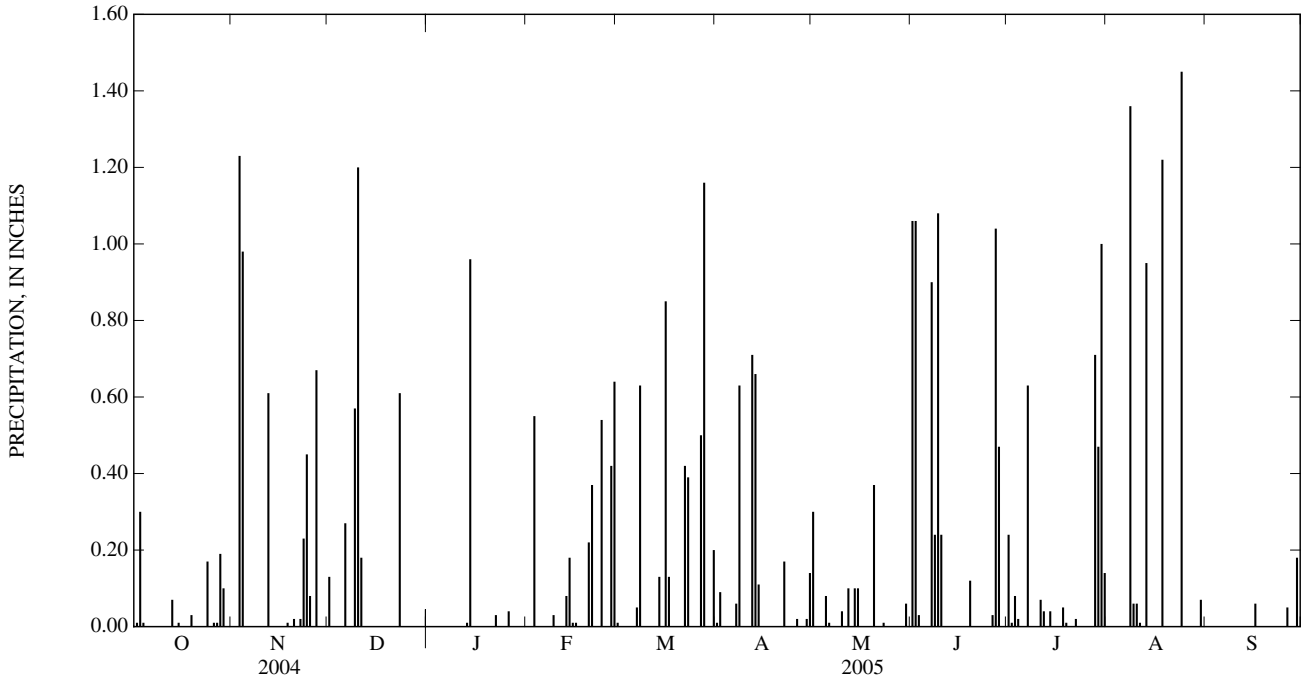
PERIOD OF RECORD.--June 1994 to current year. Records for period June 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.01	0.01	0.30	1.06	0.24	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.06	0.01	0.00	0.00
3	0.30	1.23	0.00	0.00	0.55	0.00	0.00	0.00	0.03	0.08	0.00	0.00
4	0.01	0.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.00	0.90	0.63	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.63	0.63	0.00	0.24	0.00	1.36	0.00
9	0.00	0.00	0.57	0.00	0.03	0.00	0.00	0.00	1.08	0.00	0.06	0.00
10	0.00	0.00	1.20	0.00	0.00	0.00	0.00	0.04	0.24	0.00	0.06	0.00
11	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00
12	0.00	0.61	0.00	0.00	0.00	0.00	0.71	0.10	0.00	0.04	0.00	0.00
13	0.07	0.00	0.00	0.01	0.08	0.00	0.66	0.00	0.00	0.00	0.95	0.00
14	0.00	0.00	0.00	0.96	0.18	0.13	0.11	0.10	0.00	0.04	0.00	0.00
15	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.85	0.00	0.00	0.00	0.00	0.00	0.06
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	1.22	0.00
19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.01	0.00	0.00
20	0.00	0.02	0.00	0.00	0.22	0.00	0.00	0.37	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.03	0.00	0.42	0.17	0.00	0.00	0.02	0.00	0.00
23	0.00	0.23	0.61	0.00	0.00	0.39	0.00	0.01	0.00	0.00	0.00	0.00
24	0.17	0.45	0.00	0.00	0.54	0.00	0.00	---	0.00	0.00	1.45	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.04	0.00	0.00	0.02	---	0.03	0.00	0.00	0.05
27	0.01	0.67	0.00	0.00	0.42	0.50	0.00	0.00	1.04	0.00	0.00	0.00
28	0.19	0.00	0.00	0.00	0.64	1.16	0.00	0.00	0.47	0.71	0.00	0.00
29	0.10	0.00	0.00	---	---	0.00	0.02	0.00	0.00	0.47	0.00	0.18
30	0.00	0.00	0.00	---	---	0.00	0.14	0.06	0.00	1.00	0.07	0.00
31	0.00	---	0.00	0.00	---	0.20	---	0.00	---	0.14	0.00	---
TOTAL	0.91	4.30	2.96	---	3.05	4.47	2.62	---	6.27	3.53	5.18	0.29



351218080331345 CRN29

LOCATION.--Lat 35°12'20", long 80°33'08", Mecklenburg County, Hydrologic Unit 03040105, Clear Creek Boy Scout Camp, Belt Road, Midland, NC.

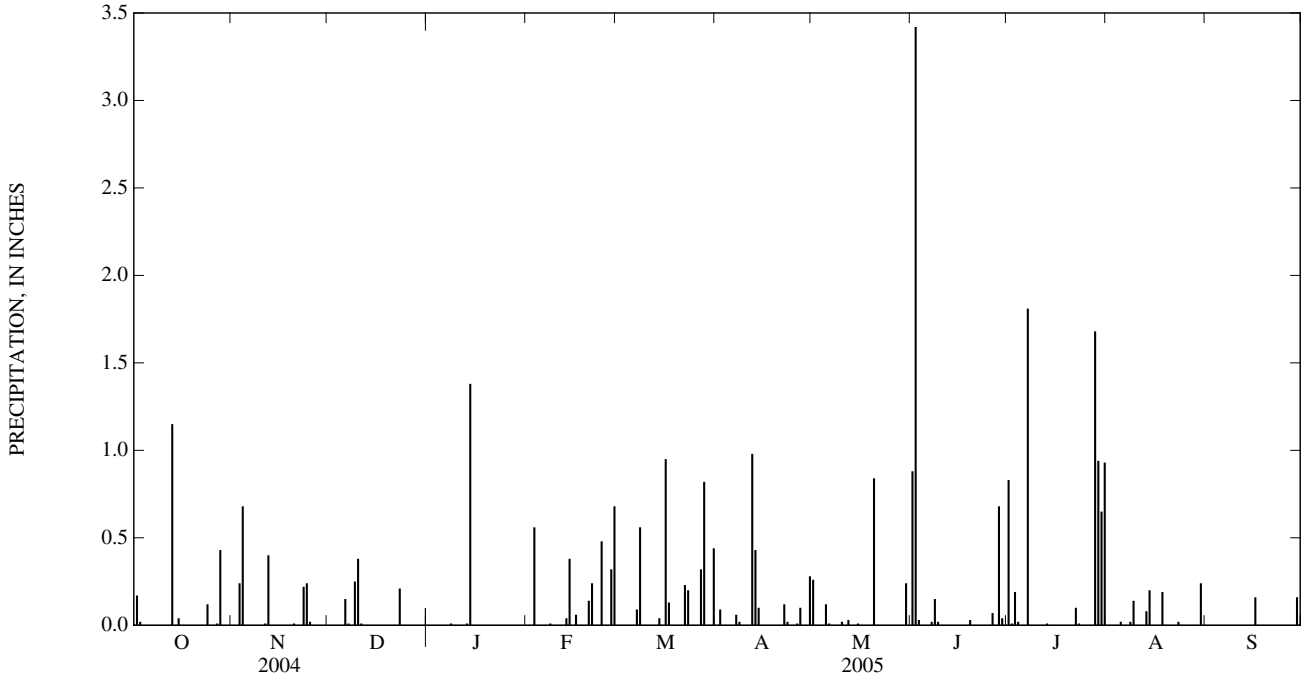
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	---	0.00	0.00	0.00	0.00	0.26	0.88	0.83	0.00	0.00
2	0.17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	3.42	0.01	0.00	0.00
3	0.02	0.24	0.00	0.00	0.56	0.00	0.00	0.00	0.03	0.19	0.00	0.00
4	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.02	0.00
6	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.09	0.06	0.00	0.02	1.81	0.00	0.00
8	0.00	0.00	0.00	0.01	0.01	0.56	0.02	0.00	0.15	0.00	0.02	0.00
9	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.14	0.00
10	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
11	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.40	0.00	0.00	0.00	0.00	0.98	0.03	0.00	0.00	0.00	0.00
13	1.15	0.00	0.00	0.01	0.04	0.00	0.43	0.00	0.00	0.01	0.08	0.00
14	0.00	0.00	0.00	1.38	0.38	0.04	0.10	0.00	0.00	0.00	0.20	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.06	0.95	0.00	0.00	0.00	0.00	0.00	0.16
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.14	0.00	0.00	0.84	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.23	0.12	0.00	0.00	0.10	0.00	0.00
23	0.00	0.22	0.21	0.00	0.00	0.20	0.02	0.00	0.00	0.01	0.02	0.00
24	0.12	0.24	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00
27	0.01	---	0.00	0.00	0.32	0.32	0.10	0.00	0.00	0.00	0.00	0.00
28	0.43	---	0.00	0.00	0.68	0.82	0.00	0.00	0.68	1.68	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.04	0.94	0.00	0.16
30	0.00	0.00	0.00	---	---	0.00	0.28	0.24	0.00	0.65	0.24	0.00
31	0.00	---	0.00	0.00	---	0.44	---	0.00	---	0.93	0.00	---
TOTAL	1.94	---	---	---	2.91	3.78	2.21	1.53	5.34	7.18	0.91	0.32



351455080374445 CRN30

LOCATION.--Lat 35°14'56", long 80°37'43", Mecklenburg County, Hydrologic Unit 03040105, private residence, Peach Orchard Road, Mint Hill, NC.

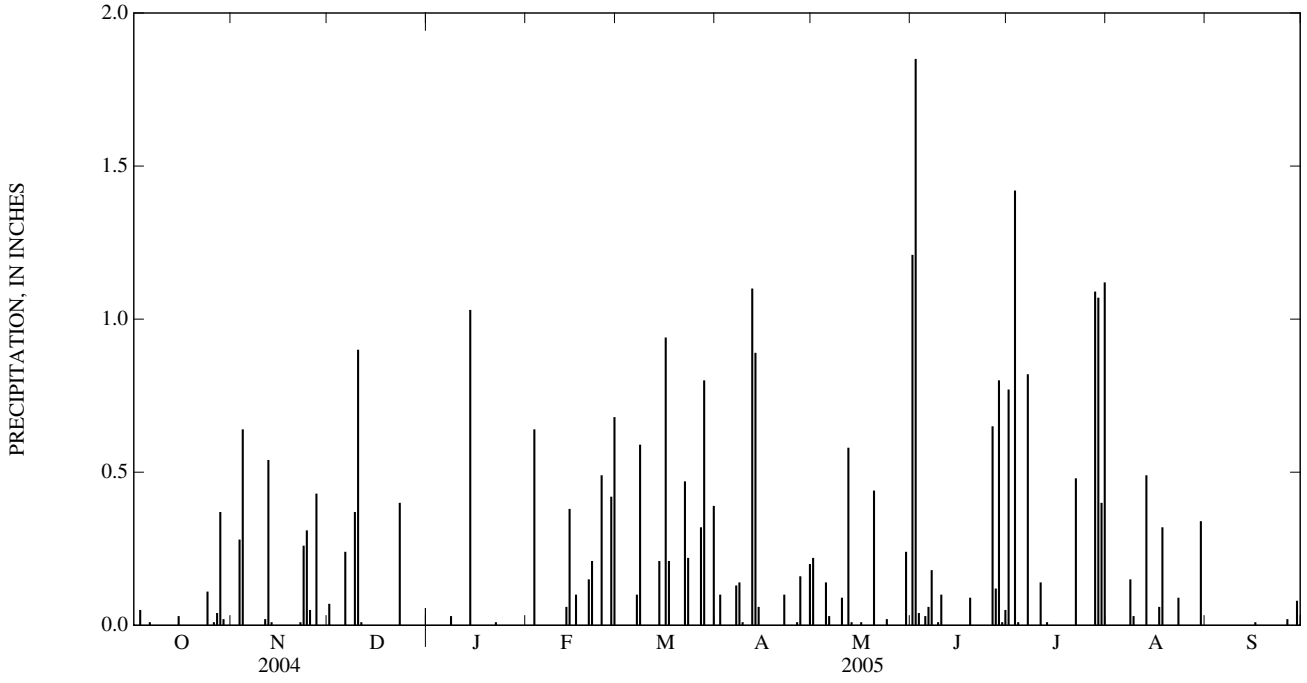
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.22	1.21	0.77	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	1.85	0.00	0.00	0.00
3	0.05	0.28	0.00	0.00	0.64	0.00	0.00	0.00	0.04	1.42	0.00	0.00
4	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.03	0.00	0.00	0.00
6	0.01	0.00	0.24	0.00	0.00	0.00	0.00	0.03	0.06	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.00	0.18	0.82	0.00	0.00
8	---	0.00	0.00	0.03	0.00	0.59	0.14	0.00	0.00	0.00	0.15	0.00
9	---	0.00	0.37	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.03	0.00
10	---	0.00	0.90	0.00	0.00	0.00	0.00	0.09	0.10	0.00	0.00	0.00
11	---	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
12	---	0.54	0.00	0.00	0.00	0.00	1.10	0.58	0.00	0.00	0.00	0.00
13	---	0.01	0.00	0.00	0.06	0.00	0.89	0.01	0.00	0.01	0.49	0.00
14	0.00	0.00	0.00	1.03	0.38	0.21	0.06	0.00	0.00	0.00	0.00	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.10	0.94	0.00	0.01	0.00	0.00	0.00	0.01
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.06	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.44	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.01	0.00	0.47	0.10	0.00	0.00	0.48	0.00	0.00
23	0.00	0.26	0.40	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.09	0.00
24	0.11	0.31	0.00	0.00	0.49	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.65	0.00	0.00	0.02
27	0.04	0.43	0.00	0.00	0.42	0.32	0.16	0.00	0.12	0.00	0.00	0.00
28	0.37	0.00	0.00	0.00	0.68	0.80	0.00	0.00	0.80	1.09	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.01	1.07	0.00	0.08
30	0.00	0.00	0.00	---	---	0.00	0.20	0.24	0.05	0.40	0.34	0.00
31	0.00	---	0.00	0.00	---	0.39	---	0.00	---	1.12	0.00	---
TOTAL	---	2.55	1.99	---	3.13	4.25	2.90	1.78	5.20	7.33	1.48	0.11



351028080385545 CRN32

LOCATION.--Lat 35°10'29", long 80°38'54", Mecklenburg County, Hydrologic Unit 03040105, Bain Elementary School, Bain School Road, Mint Hill, NC.

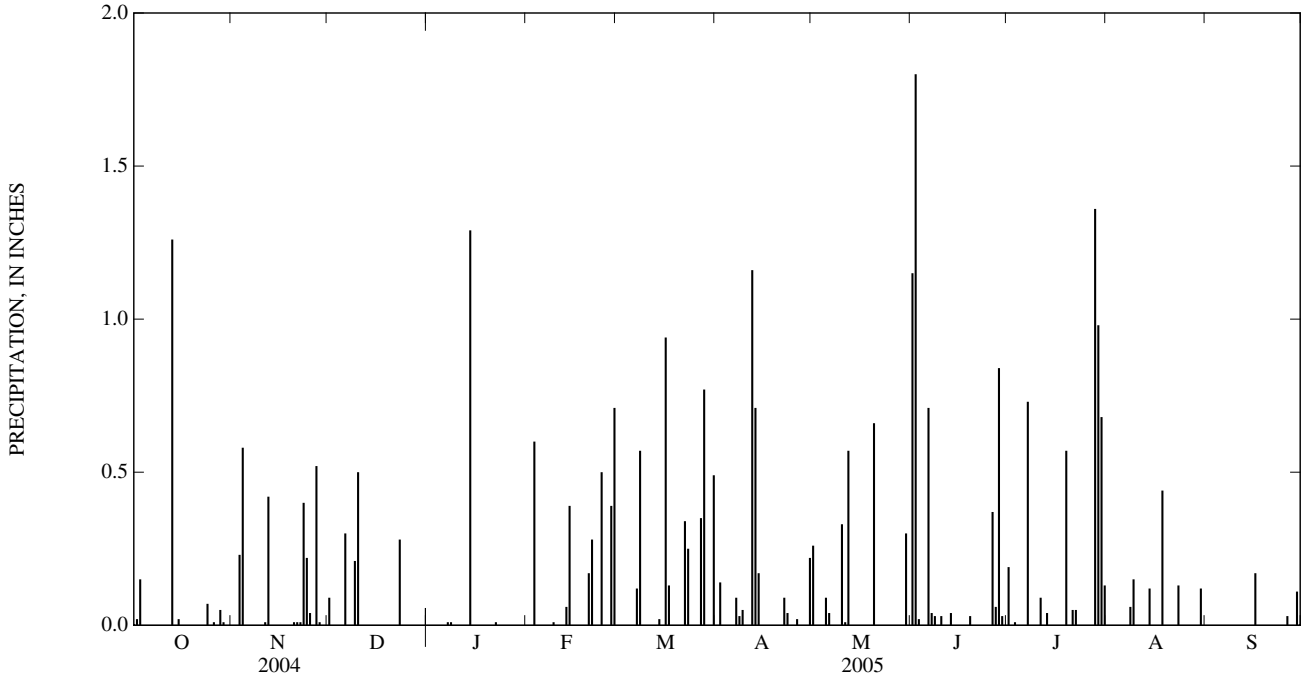
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.26	1.15	0.19	0.00	0.00
2	0.02	0.00	0.00	0.00	0.00	0.00	0.14	0.00	1.80	0.00	0.00	0.00
3	0.15	0.23	0.00	0.00	0.60	0.00	0.00	0.00	0.02	0.01	0.00	0.00
4	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.04	0.71	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.12	0.09	0.00	0.04	0.73	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.57	0.03	0.00	0.03	0.00	0.06	0.00
9	0.00	0.00	0.21	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.15	0.00
10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.33	0.03	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.09	0.00	0.00
12	0.00	0.42	0.00	0.00	0.00	0.00	1.16	0.57	0.00	0.00	0.00	0.00
13	1.26	0.00	0.00	0.00	0.06	0.00	0.71	0.00	0.04	0.04	0.00	0.00
14	0.00	0.00	0.00	1.29	0.39	0.02	0.17	0.00	0.00	0.00	0.12	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.17
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.57	0.00	0.00
20	0.00	0.01	0.00	0.00	0.17	0.00	0.00	0.66	0.00	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.05	0.00	0.00
22	0.00	0.01	0.00	0.01	0.00	0.34	0.09	0.00	0.00	0.05	0.00	0.00
23	0.00	0.40	0.28	0.00	0.00	0.25	0.04	0.00	0.00	0.00	0.13	0.00
24	0.07	0.22	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.37	0.00	0.00	0.03
27	0.00	0.52	0.00	0.00	0.39	0.35	0.00	0.00	0.06	0.00	0.00	0.00
28	0.05	0.01	0.00	0.00	0.71	0.77	0.00	0.00	0.84	1.36	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.03	0.98	0.00	0.11
30	0.00	0.00	0.00	---	---	0.00	0.22	0.30	0.00	0.68	0.12	0.00
31	0.00	---	0.00	0.00	---	0.49	---	0.00	---	0.13	0.00	---
TOTAL	1.59	2.46	1.38	---	3.11	3.98	2.72	2.26	5.15	4.88	1.02	0.31



352000080414645 CRN33

LOCATION.--Lat 35°20'07", long 80°41'51", Mecklenburg County, Hydrologic Unit 03040105, Mallard Creek WWTP, U.S. Highway 29 North, Charlotte, NC.

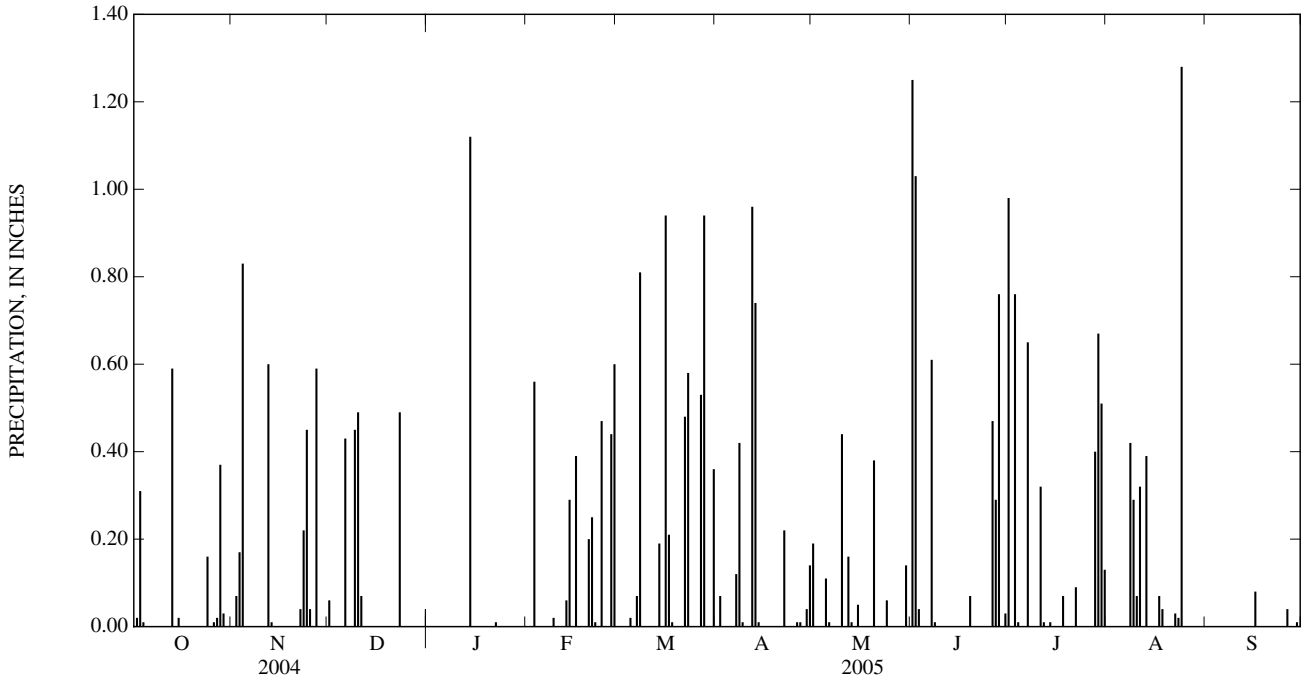
PERIOD OF RECORD.--December 1995 to current year. Records for period December 1995 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.19	1.25	0.98	0.00	0.00
2	0.02	0.07	0.00	0.00	0.00	0.00	0.07	0.00	1.03	0.00	0.00	0.00
3	0.31	0.17	0.00	0.00	0.56	0.00	0.00	0.00	0.04	0.76	0.00	0.00
4	0.01	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.11	0.00	0.00	0.00	0.00
6	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.07	0.12	0.00	0.61	0.65	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.81	0.42	0.00	0.01	0.00	0.42	0.00
9	0.00	0.00	0.45	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.29	0.00
10	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.07	0.00
11	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.32	0.00
12	0.00	0.60	0.00	0.00	0.00	0.00	0.96	0.16	0.00	0.01	0.00	0.00
13	0.59	0.01	0.00	0.00	0.06	0.00	0.74	0.01	0.00	0.00	0.39	0.00
14	0.00	0.00	0.00	1.12	0.29	0.19	0.01	0.00	0.00	0.01	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.39	0.94	0.00	0.00	0.00	0.00	0.00	0.08
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.07	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.07	0.04	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.38	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.01	0.01	0.48	0.22	0.00	0.00	0.09	0.03	0.00
23	0.00	0.22	0.49	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.02	0.00
24	0.16	0.45	0.00	0.00	0.47	0.00	0.00	0.06	0.00	0.00	1.28	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.47	0.00	0.00	0.04
27	0.02	0.59	0.00	0.00	0.44	0.53	0.01	0.00	0.29	0.00	0.00	0.00
28	0.37	0.00	0.00	0.00	0.60	0.94	0.00	0.00	0.76	0.40	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.04	0.00	0.00	0.67	0.00	0.01
30	0.00	0.00	0.00	---	---	0.00	0.14	0.14	0.03	0.51	0.00	0.00
31	0.00	---	0.00	0.00	---	0.36	---	0.00	---	0.13	0.00	---
TOTAL	1.54	3.02	1.99	---	3.29	5.14	2.75	1.55	4.56	4.61	2.93	0.13



352921080473245 CRN36

LOCATION.--Lat 35°29'22", long 80°47'32", Mecklenburg County, Hydrologic Unit 03040105, Westfork Substation, Shearer Road, Davidson, NC.

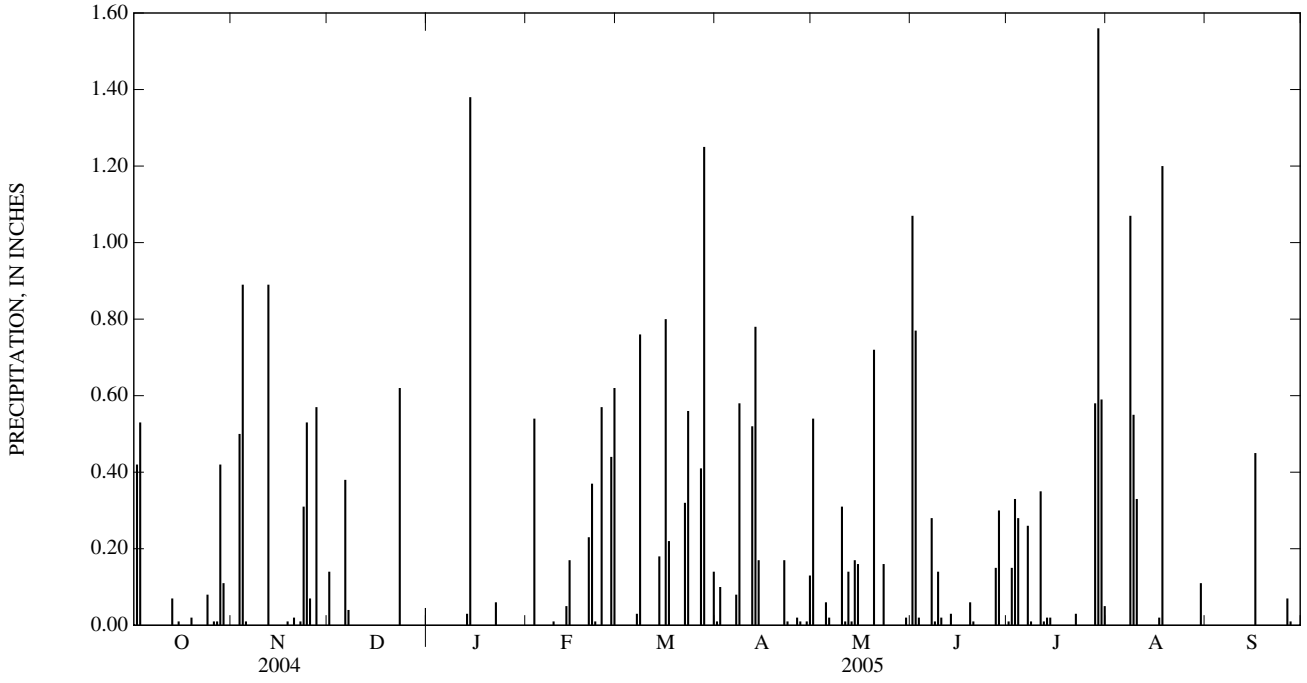
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.01	0.54	1.07	0.01	0.00	0.00
2	0.42	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.77	0.15	0.00	0.00
3	0.53	0.50	0.00	0.00	0.54	0.00	0.00	0.00	0.02	0.33	0.00	0.00
4	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
7	0.00	0.00	0.04	0.00	0.00	0.03	0.08	0.00	0.28	0.26	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.76	0.58	0.00	0.01	0.01	1.07	0.00
9	0.00	0.00	---	0.00	0.01	0.00	0.00	0.00	0.14	0.00	0.55	0.00
10	0.00	0.00	---	0.00	0.00	0.00	0.00	0.31	0.02	0.00	0.33	0.00
11	0.00	0.00	---	0.00	0.00	0.00	0.00	0.01	0.00	0.35	0.00	0.00
12	0.00	0.89	---	0.00	0.00	0.00	0.52	0.14	0.00	0.01	0.00	0.00
13	0.07	0.00	---	0.03	0.05	0.00	0.78	0.01	0.03	0.02	0.00	0.00
14	0.00	0.00	0.00	1.38	0.17	0.18	0.17	0.17	0.00	0.02	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.45
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.02	0.00
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.00
19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.23	0.00	0.00	0.72	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.06	0.01	0.32	0.17	0.00	0.00	0.03	0.00	0.00
23	0.00	0.31	0.62	0.00	0.00	0.56	0.01	0.16	0.00	0.00	0.00	0.00
24	0.08	0.53	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.07
27	0.01	0.57	0.00	0.00	0.44	0.41	0.01	0.00	0.15	0.00	0.00	0.01
28	0.42	0.00	0.00	0.00	0.62	1.25	0.00	0.00	0.30	0.58	0.00	0.00
29	0.11	0.00	0.00	---	---	0.00	0.01	0.00	0.00	1.56	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.13	0.02	0.00	0.59	0.11	0.00
31	0.00	---	0.00	0.00	---	0.14	---	0.00	---	0.05	0.00	---
TOTAL	1.68	3.81	---	---	3.01	4.67	2.59	2.32	2.86	4.25	3.28	0.53



350634080405245 CRN39

LOCATION.--Lat 35°06'35", long 80°40'52", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mount Harmony Church Road, Matthews, NC.

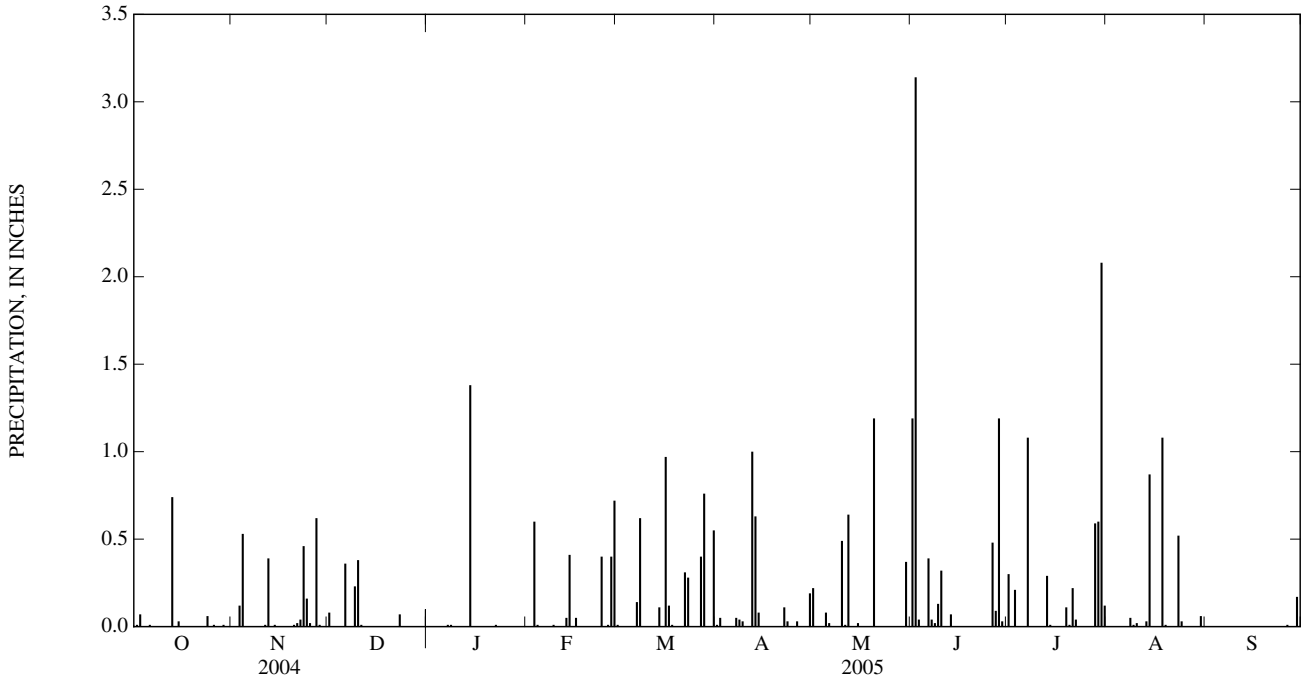
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.00	0.00	0.01	0.01	0.22	1.19	0.30	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	3.14	0.00	0.00	0.00
3	0.07	0.12	0.00	0.00	0.60	0.00	0.00	0.00	0.04	0.21	0.00	0.00
4	0.00	0.53	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.01	0.00	0.36	0.00	0.00	0.00	0.00	0.02	0.39	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.14	0.05	0.00	0.04	1.08	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.62	0.04	0.00	0.02	0.00	0.05	0.00
9	0.00	0.00	0.23	0.00	0.01	0.00	0.03	0.00	0.13	0.00	0.01	0.00
10	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.49	0.32	0.00	0.02	0.00
11	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
12	0.00	0.39	0.00	0.00	0.00	0.00	1.00	0.64	0.00	0.00	0.00	0.00
13	0.74	0.00	0.00	0.00	0.05	0.00	0.63	0.00	0.07	0.29	0.03	0.00
14	0.00	0.01	0.00	1.38	0.41	0.11	0.08	0.00	0.00	0.01	0.87	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.05	0.97	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	---	0.01	0.00	0.00	0.00	0.00	1.08	0.00
19	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.11	0.01	0.00
20	0.00	0.01	0.00	0.00	---	0.00	0.00	1.19	0.00	0.01	0.00	0.00
21	0.00	0.02	0.00	0.00	---	0.00	0.00	0.00	0.00	0.22	0.00	0.00
22	0.00	0.04	0.00	0.01	---	0.31	0.11	0.00	0.00	0.04	0.00	0.00
23	0.00	0.46	0.07	0.00	0.00	0.28	0.03	0.00	0.00	0.00	0.52	0.00
24	0.06	0.16	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.03	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.48	0.00	0.00	0.01
27	0.00	0.62	0.00	0.00	0.40	0.40	0.00	0.00	0.09	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.72	0.76	0.00	0.00	1.19	0.59	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.03	0.60	0.00	0.17
30	0.00	0.00	0.00	---	---	0.00	0.19	0.37	0.00	2.08	0.06	0.00
31	0.00	---	0.00	0.00	---	0.55	---	0.00	---	0.12	0.00	---
TOTAL	0.94	2.40	1.13	---	---	4.28	2.25	3.04	7.13	5.66	2.68	0.18



352718080484345 CRN44

LOCATION.--Lat 35°27'19", long 80°48'43", Mecklenburg County, Hydrologic Unit 03040105, private residence, Mayes Road, Huntersville, NC.

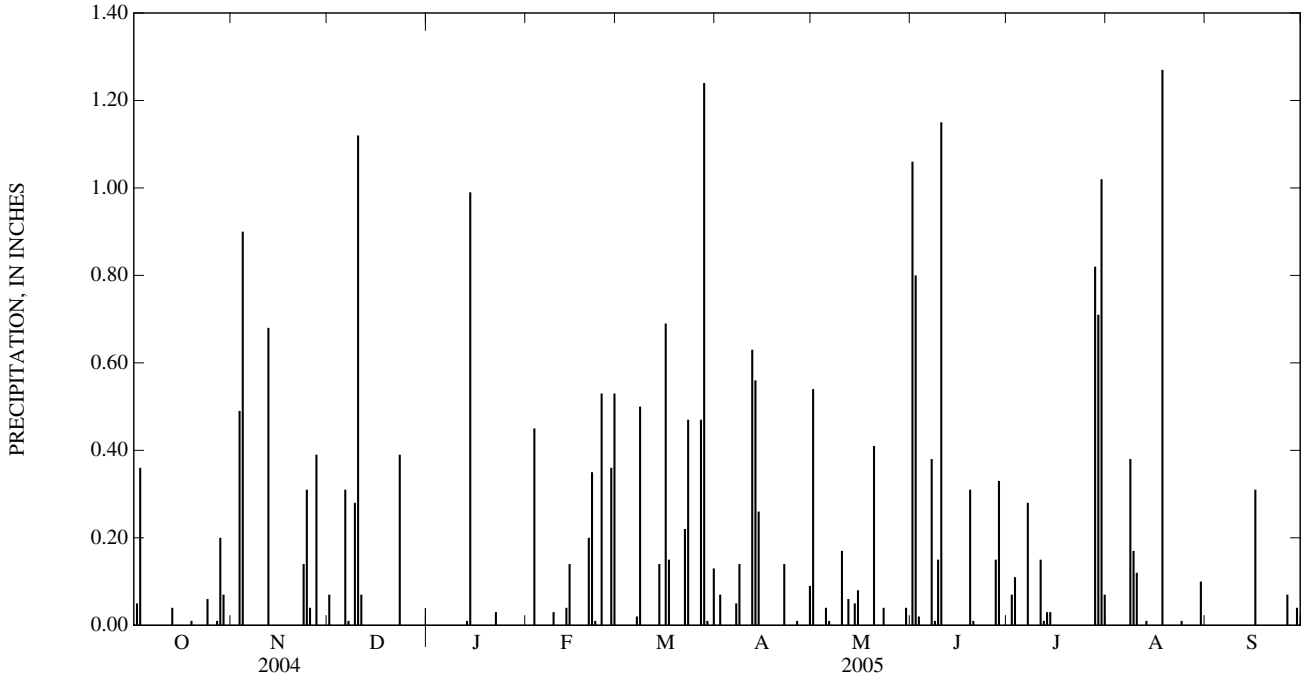
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.54	1.06	0.00	0.00	0.00
2	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.80	0.07	0.00	0.00
3	0.36	0.49	0.00	0.00	0.45	0.00	0.00	0.00	0.02	0.11	0.00	0.00
4	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.02	0.05	0.00	0.38	0.28	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.50	0.14	0.00	0.01	0.00	0.38	0.00
9	0.00	0.00	0.28	0.00	0.03	0.00	0.00	0.00	0.15	0.00	0.17	0.00
10	0.00	0.00	1.12	0.00	0.00	0.00	0.00	0.17	1.15	0.00	0.12	0.00
11	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
12	0.00	0.68	0.00	0.00	0.00	0.00	0.63	0.06	0.00	0.01	0.00	0.00
13	0.04	0.00	0.00	0.01	0.04	0.00	0.56	0.00	0.00	0.03	0.01	0.00
14	0.00	0.00	0.00	0.99	0.14	0.14	0.26	0.05	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.31
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.41	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.03	0.01	0.22	0.14	0.00	0.00	0.00	0.00	0.00
23	0.00	0.14	0.39	0.00	0.00	0.47	0.00	0.04	0.00	0.00	0.00	0.00
24	0.06	0.31	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.07
27	0.01	0.39	0.00	0.00	0.36	0.47	0.00	0.00	0.15	0.00	0.00	0.00
28	0.20	0.00	0.00	0.00	0.53	1.24	0.00	0.00	0.33	0.82	0.00	0.00
29	0.07	0.00	0.00	---	---	0.01	0.00	0.00	0.00	0.71	0.00	0.04
30	0.00	0.00	0.00	---	---	0.00	0.09	0.04	0.00	1.02	0.10	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.00	---	0.07	0.00	---
TOTAL	0.80	2.95	2.25	---	2.64	4.04	1.95	1.44	4.37	3.30	2.06	0.42



352135080462045 CRN46

LOCATION.--Lat 35°21'35", long 80°46'20", Mecklenburg County, Hydrologic Unit 03040105, private residence, Johnston-Oehler Road, Charlotte, NC.

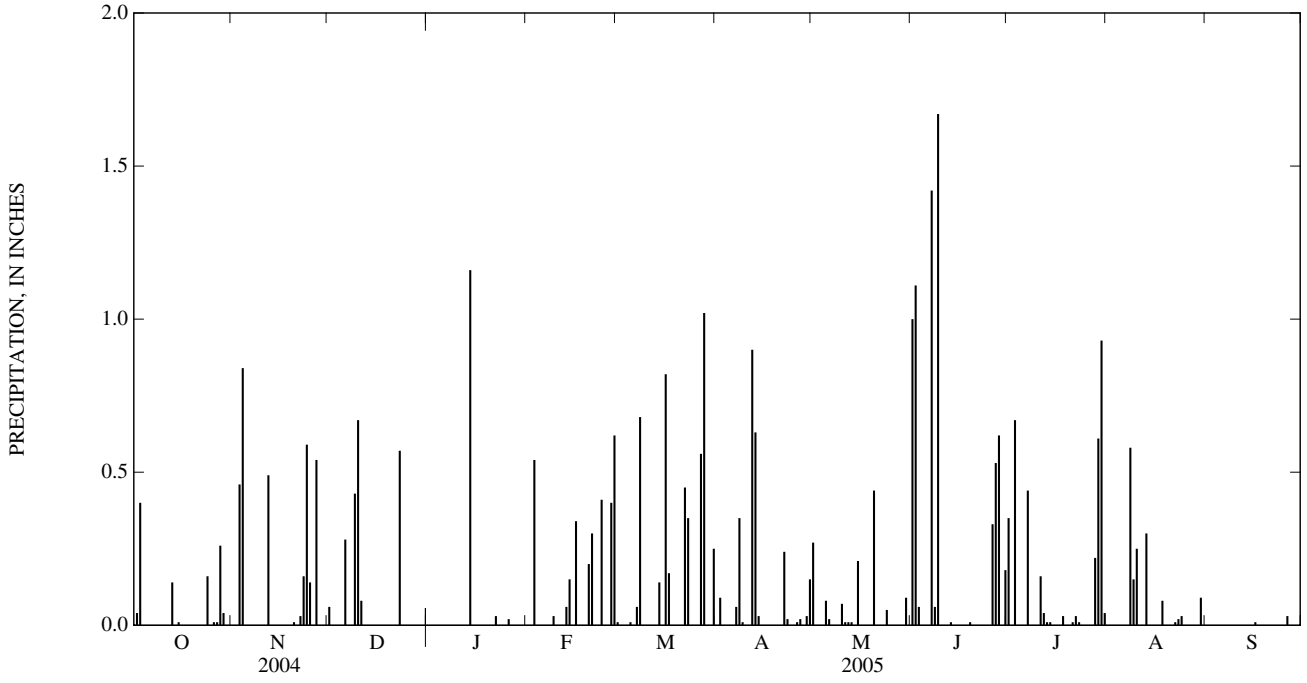
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.06	0.00	0.00	0.01	0.00	0.27	1.00	0.35	0.00	0.00
2	0.04	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.11	0.00	0.00	0.00
3	0.40	0.46	0.00	0.00	0.54	0.00	0.00	0.00	0.06	0.67	0.00	0.00
4	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.06	0.06	0.00	1.42	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.68	0.35	0.00	0.06	0.00	0.58	0.00
9	0.00	0.00	0.43	0.00	0.03	0.00	0.01	0.00	1.67	0.00	0.15	0.00
10	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.25	0.00
11	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.16	0.00	0.00
12	0.00	0.49	0.00	0.00	0.00	0.00	0.90	0.01	0.00	0.04	0.00	0.00
13	0.14	0.00	0.00	0.00	0.06	0.00	0.63	0.01	0.01	0.01	0.30	0.00
14	0.00	0.00	0.00	1.16	0.15	0.14	0.03	0.00	0.00	0.01	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.34	0.82	0.00	0.00	0.00	0.00	0.00	0.01
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.44	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.01	0.00	0.00
22	0.00	0.03	0.00	0.03	0.00	0.45	0.24	0.00	0.00	0.03	0.01	0.00
23	0.00	0.16	0.57	0.00	0.00	0.35	0.02	0.00	0.00	0.01	0.02	0.00
24	0.16	0.59	0.00	0.00	0.41	0.00	0.00	0.05	0.00	0.00	0.03	0.00
25	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.33	0.00	0.00	0.03
27	0.01	0.54	0.00	0.00	0.40	0.56	0.02	0.00	0.53	0.00	0.00	0.00
28	0.26	0.00	0.00	0.00	0.62	1.02	0.00	0.00	0.62	0.22	0.00	0.00
29	0.04	0.00	0.00	---	---	0.00	0.03	0.00	0.00	0.61	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.15	0.09	0.18	0.93	0.09	0.00
31	0.00	---	0.00	0.00	---	0.25	---	0.00	---	0.04	0.00	---
TOTAL	1.07	3.26	2.09	---	3.05	4.52	2.54	1.26	7.00	3.56	1.51	0.04



352623080434145 CRN63

LOCATION.--Lat 35°26'23", long 80°43'41", Mecklenburg County, Hydrologic Unit 03040105, Odell Elementary School, Odell School Road, Concord, NC.

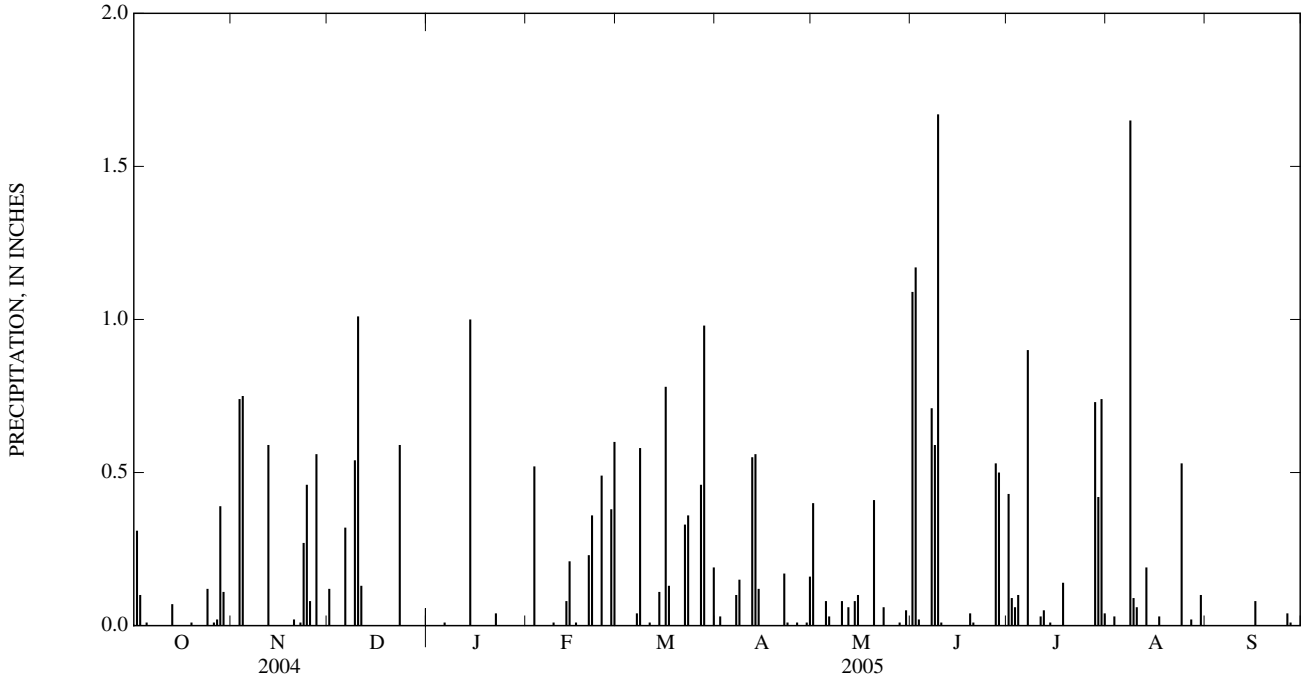
PERIOD OF RECORD.--October 2002 to September 2003. Records for October 2001 to September 2002 at site Odell Volunteer Fire Department, Concord, NC (station 352624080434645).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.40	1.09	0.43	0.00	0.00
2	0.31	0.00	0.00	0.00	0.00	0.00	0.03	0.00	1.17	0.09	0.00	0.00
3	0.10	0.74	0.00	0.00	0.52	0.00	0.00	0.00	0.02	0.06	0.03	0.00
4	0.00	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.32	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.00	0.71	0.90	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.58	0.15	0.00	0.59	0.00	1.65	0.00
9	0.00	0.00	0.54	0.00	0.01	0.00	0.00	0.00	1.67	0.00	0.09	0.00
10	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.08	0.01	0.00	0.06	0.00
11	0.00	0.00	0.13	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.00	0.00
12	0.00	0.59	0.00	0.00	0.00	0.00	0.55	0.06	0.00	0.05	0.00	0.00
13	0.07	0.00	0.00	0.00	0.08	0.00	0.56	0.00	0.00	0.00	0.19	0.00
14	0.00	0.00	0.00	1.00	0.21	0.11	0.12	0.08	0.00	0.01	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.78	0.00	0.00	0.00	0.00	0.00	0.08
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.03	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	---	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	---	0.00
20	0.00	0.02	0.00	0.00	0.23	0.00	0.00	0.41	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.04	0.00	0.33	0.17	0.00	0.00	0.00	0.00	0.00
23	0.00	0.27	0.59	0.00	0.00	0.36	0.01	0.06	0.00	0.00	0.00	0.00
24	0.12	0.46	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.53	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04
27	0.02	0.56	0.00	0.00	0.38	0.46	0.00	0.00	0.53	0.00	0.02	0.01
28	0.39	0.00	0.00	0.00	0.60	0.98	0.00	0.01	0.50	0.73	0.00	0.00
29	0.11	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.42	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.16	0.05	0.00	0.74	0.10	0.00
31	0.00	---	0.00	0.00	---	0.19	---	0.00	---	0.04	0.00	---
TOTAL	1.15	3.48	2.71	---	2.89	3.97	1.87	1.36	6.34	3.74	---	0.13



351536080410645 CRN65

LOCATION.--Lat 35°15'36", long 80°41'06", Mecklenburg County, Hydrologic Unit 03040105, Reedy Creek Elementary School, Plaza Road Extension, Charlotte, NC.

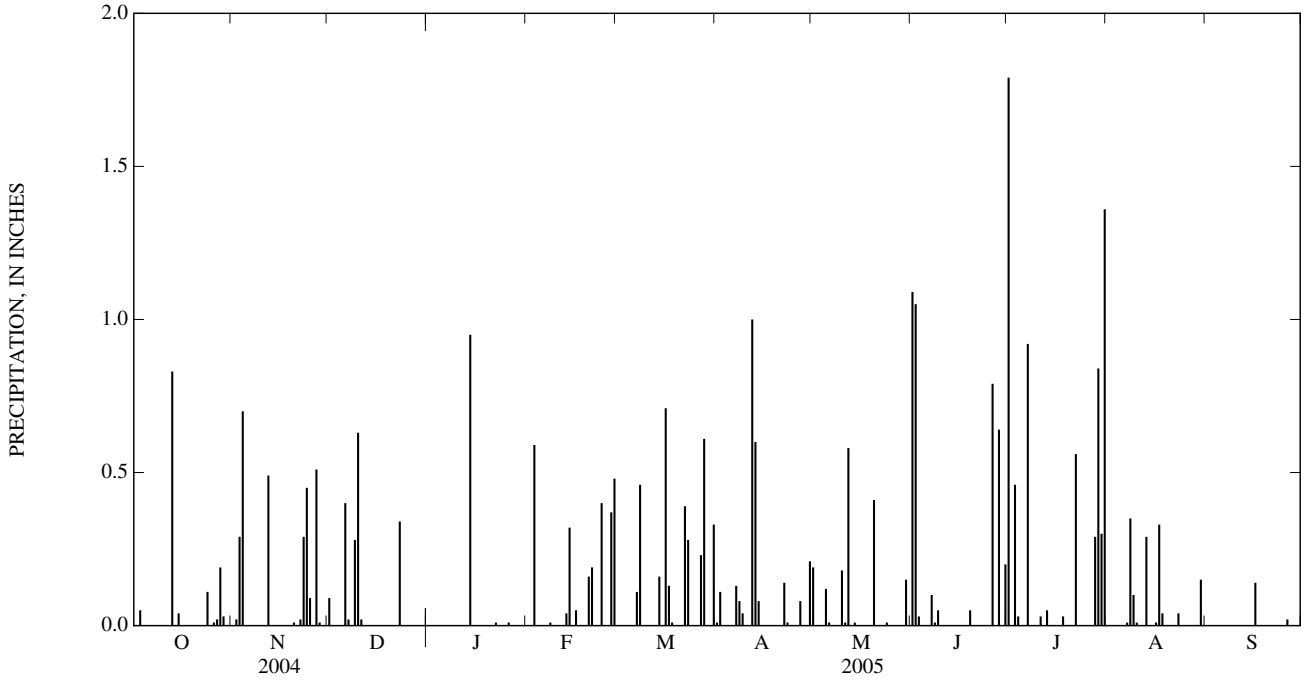
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.01	0.19	1.09	1.79	0.00	0.00
2	0.00	0.02	0.00	0.00	0.00	0.00	0.11	0.00	1.05	0.00	0.00	0.00
3	0.05	0.29	0.00	0.00	0.59	0.00	0.00	0.00	0.03	0.46	0.00	0.00
4	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
6	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.11	0.13	0.00	0.10	0.92	0.01	0.00
8	0.00	0.00	0.00	0.00	0.01	0.46	0.08	0.00	0.01	0.00	0.35	0.00
9	0.00	0.00	0.28	0.00	0.00	0.00	0.04	0.00	0.05	0.00	0.10	0.00
10	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.01	0.00
11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00
12	0.00	0.49	0.00	0.00	0.00	0.00	1.00	0.58	0.00	0.00	0.00	0.00
13	0.83	0.00	0.00	0.00	0.04	0.00	0.60	0.00	0.00	0.05	0.29	0.00
14	0.00	0.00	0.00	0.95	0.32	0.16	0.08	0.01	0.00	0.00	0.00	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.05	0.71	0.00	0.00	0.00	0.00	0.01	0.14
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.33	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03	0.04	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.16	0.00	0.00	0.41	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.39	0.14	0.00	0.00	0.56	0.00	0.00
23	0.00	0.29	0.34	0.00	0.00	0.28	0.01	0.00	0.00	0.00	0.04	0.00
24	0.11	0.45	0.00	0.00	0.40	0.00	0.00	0.01	0.00	0.00	0.00	0.00
25	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.02
27	0.02	0.51	0.00	0.00	0.37	0.23	0.08	0.00	0.00	0.00	0.00	0.00
28	0.19	0.01	0.00	0.00	0.48	0.61	0.00	0.00	0.64	0.29	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.84	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.21	0.15	0.20	0.30	0.15	0.00
31	0.00	---	0.00	0.00	---	0.33	---	0.00	---	1.36	0.00	---
TOTAL	1.28	2.88	1.78	---	2.61	3.42	2.49	1.67	4.01	6.66	1.33	0.16



350857080383245 CRN67

LOCATION.--Lat 35°08'57", long 80°38'32", Mecklenburg County, Hydrologic Unit 03040105, Thompson Road, Mint Hill, NC.

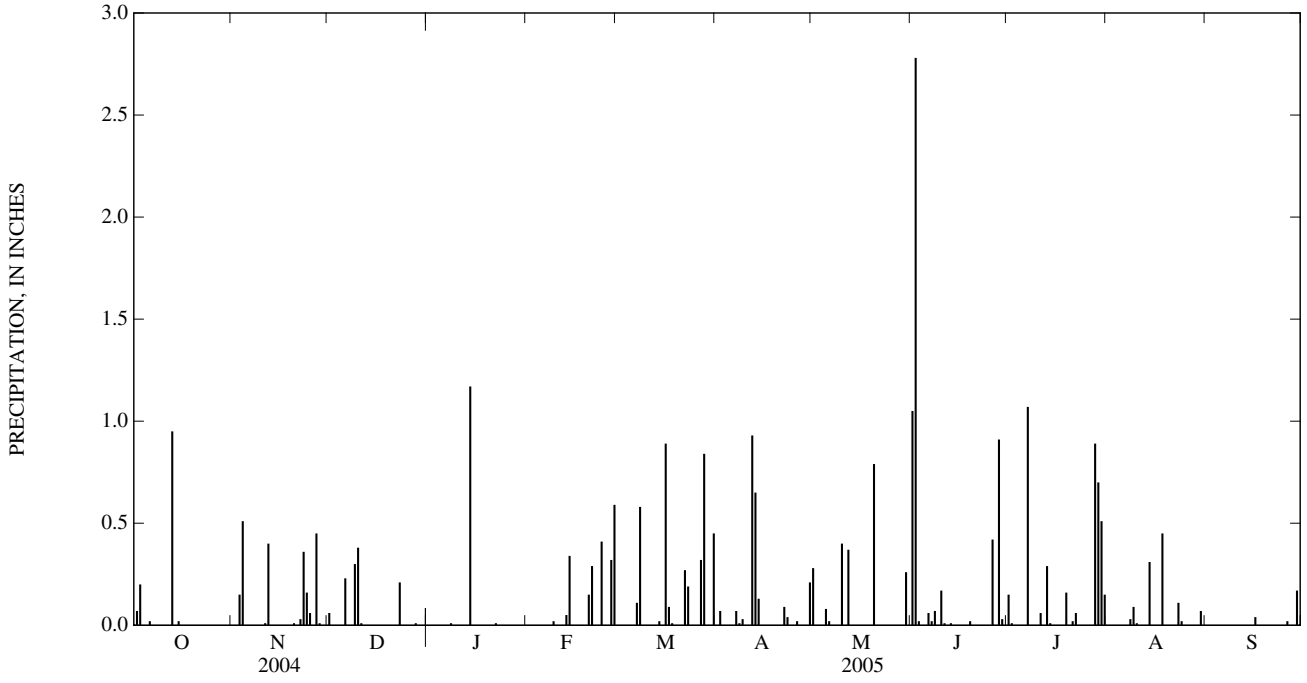
PERIOD OF RECORD.--November 2002 to September 2003

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.28	1.05	0.15	0.00	0.00
2	0.07	0.00	0.00	0.00	---	0.00	0.07	0.00	2.78	0.01	0.00	0.00
3	0.20	0.15	0.00	0.00	---	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.51	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.02	0.00	0.23	0.00	0.00	0.00	0.00	0.02	0.06	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.11	0.07	0.00	0.02	1.07	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.58	0.01	0.00	0.07	0.00	0.03	0.00
9	0.00	0.00	0.30	0.00	0.02	0.00	0.03	0.00	0.00	0.00	0.09	0.00
10	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.40	0.17	0.00	0.01	0.00
11	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.06	0.00	0.00
12	0.00	0.40	0.00	0.00	0.00	0.00	0.93	0.37	0.00	0.00	0.00	0.00
13	0.95	0.00	0.00	0.00	0.05	0.00	0.65	0.00	0.01	0.29	0.00	0.00
14	0.00	0.00	0.00	1.17	0.34	0.02	0.13	0.00	0.00	0.01	0.31	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.89	0.00	0.00	---	0.00	0.00	0.04
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	---	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.45	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.16	0.00	0.00
20	0.00	0.01	0.00	0.00	0.15	0.00	0.00	0.79	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00
22	0.00	0.03	0.00	0.01	0.00	0.27	0.09	0.00	0.00	0.06	0.00	0.00
23	0.00	0.36	0.21	0.00	0.00	0.19	0.04	0.00	0.00	0.00	0.11	0.00
24	0.00	0.16	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.02	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.42	0.00	0.00	0.02
27	0.00	0.45	0.00	0.00	0.32	0.32	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.01	0.01	0.00	0.59	0.84	0.00	0.00	0.91	0.89	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.03	0.70	0.00	0.17
30	0.00	0.00	0.00	---	---	0.00	0.21	0.26	0.00	0.51	0.07	0.00
31	0.00	---	0.00	0.00	---	0.45	---	0.00	---	0.15	0.00	---
TOTAL	1.26	2.15	1.20	---	---	3.77	2.25	2.20	---	4.08	1.09	0.23



351145080371945 CRN68

LOCATION.--Lat 35°11'45", long 80°37'20", Mecklenburg County, Hydrologic Unit 03040105, White Farm, Bartlett Road, Mint Hill, NC.

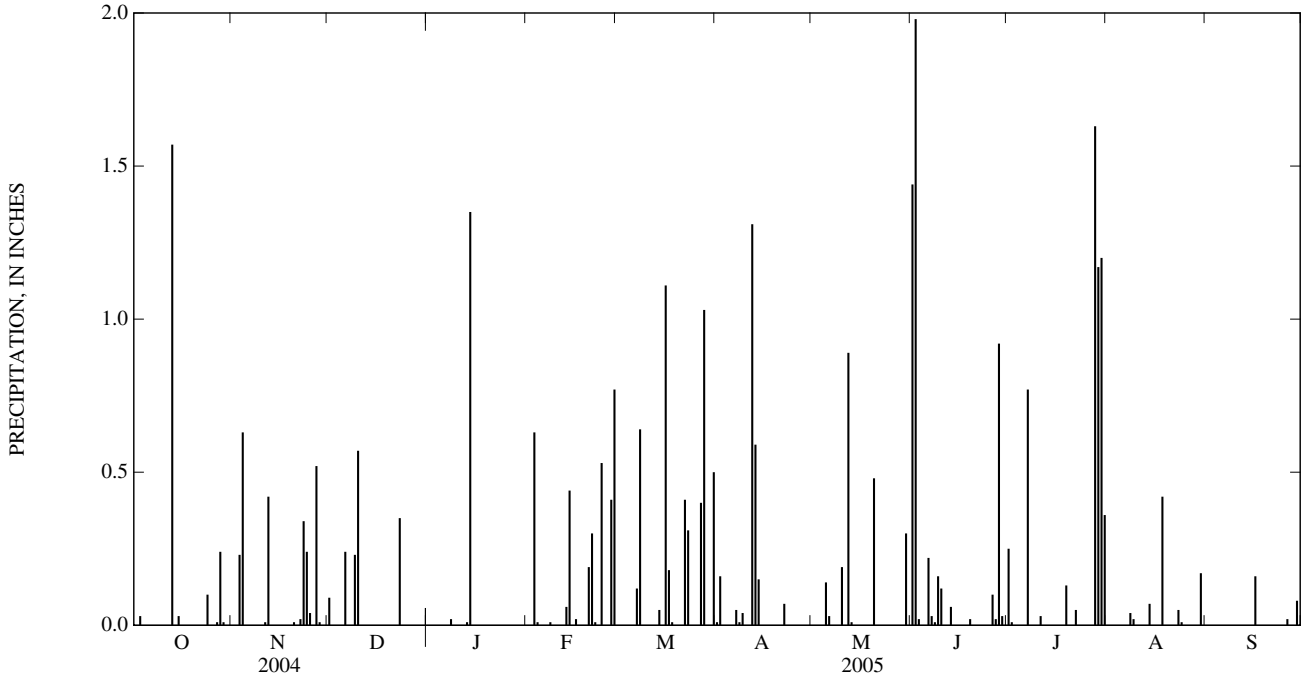
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.01	0.00	1.44	0.25	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	1.98	0.01	0.00	0.00
3	0.03	0.23	0.00	0.00	0.63	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.63	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00
6	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.03	0.22	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.12	0.05	0.00	0.03	0.77	0.00	0.00
8	0.00	0.00	0.00	0.02	0.01	0.64	0.01	0.00	0.01	0.00	0.04	0.00
9	0.00	0.00	0.23	0.00	0.00	0.00	0.04	0.00	0.16	0.00	0.02	0.00
10	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.19	0.12	0.00	0.00	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
12	0.00	0.42	0.00	0.00	0.00	0.00	1.31	0.89	0.00	0.00	0.00	0.00
13	1.57	0.00	0.00	0.01	0.06	0.00	0.59	0.01	0.06	0.00	0.00	0.00
14	0.00	0.00	0.00	1.35	0.44	0.05	0.15	0.00	0.00	0.00	0.07	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.02	1.11	0.00	0.00	0.00	0.00	0.00	0.16
17	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.42	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.13	0.00	0.00
20	0.00	0.01	0.00	0.00	0.19	0.00	0.00	0.48	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.00	0.01	0.41	0.07	0.00	0.00	0.05	0.00	0.00
23	0.00	0.34	0.35	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.05	0.00
24	0.10	0.24	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.02
27	0.01	0.52	0.00	0.00	0.41	0.40	0.00	0.00	0.02	0.00	0.00	0.00
28	0.24	0.01	0.00	0.00	0.77	1.03	0.00	0.00	0.92	1.63	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.03	1.17	0.00	0.08
30	0.00	0.00	0.00	---	---	0.00	0.00	0.30	0.00	1.20	0.17	0.00
31	0.00	---	0.00	0.00	---	0.50	---	0.00	---	0.36	0.00	---
TOTAL	1.99	2.47	1.48	---	3.38	4.76	2.39	2.04	5.13	5.60	0.78	0.26



354822080521501 PRECIPITATION AT STATESVILLE, NC

LOCATION.--Lat 35°48'37", long 80°52'51", Iredell County, Hydrologic Unit 03040102, Statesville WWTP, Sunset Hill Road, Statesville, NC.

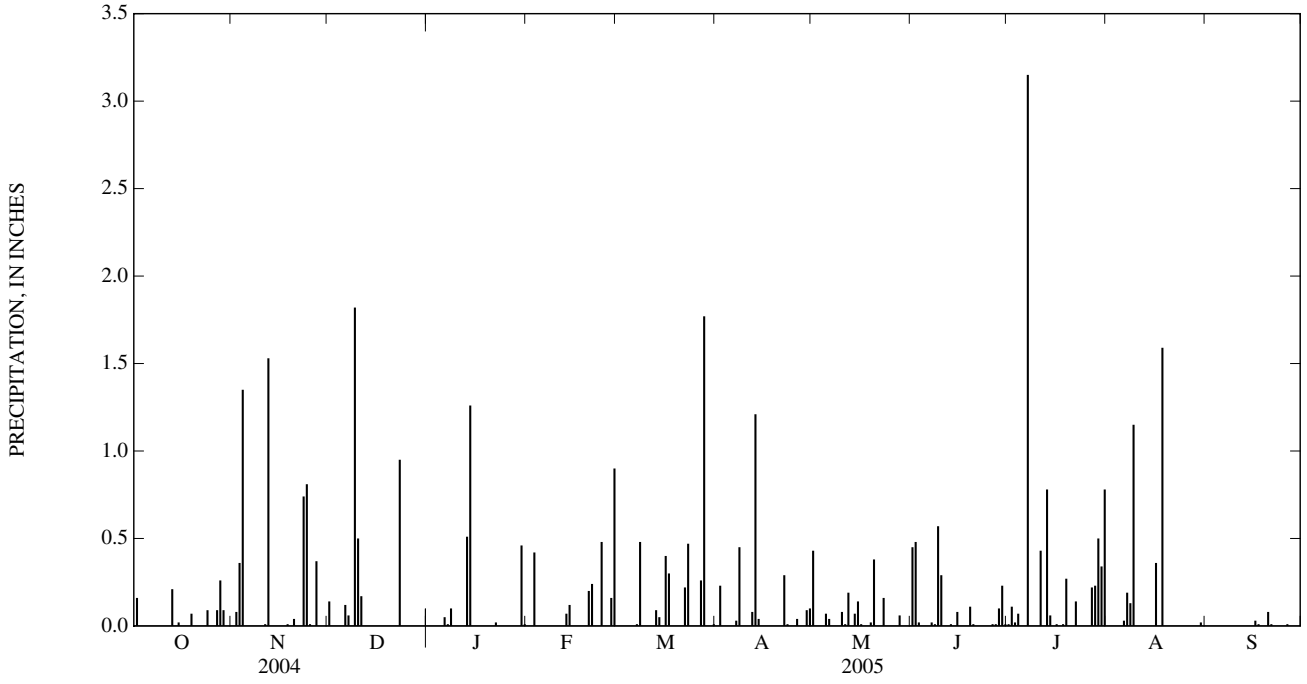
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.43	0.45	0.01	0.00	0.00
2	0.16	0.08	0.00	0.00	0.00	0.00	0.23	0.00	0.48	0.11	0.00	0.00
3	0.00	0.36	0.00	0.00	0.42	0.00	0.00	0.00	0.02	0.02	0.00	0.00
4	0.00	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.12	0.05	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.00
7	0.00	0.00	0.06	0.01	0.00	0.01	0.03	0.00	0.02	3.15	0.19	0.00
8	0.00	0.00	0.00	0.10	0.00	0.48	0.45	0.00	0.01	0.00	0.13	0.00
9	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.00	0.57	0.00	1.15	0.00
10	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.08	0.29	0.00	0.00	0.00
11	0.00	0.01	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.43	0.00	0.00
12	0.00	1.53	0.00	0.00	0.00	0.00	0.08	0.19	0.00	0.00	0.00	0.00
13	0.21	0.00	0.00	0.51	0.07	0.09	1.21	0.00	0.01	0.78	0.00	0.00
14	0.00	0.00	0.00	1.26	0.12	0.05	0.04	0.07	0.00	0.06	0.00	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.08	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.01	0.00	0.01	0.36	0.03
17	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.01
18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.59	0.00
19	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.11	0.27	0.00	0.00
20	0.00	0.04	0.00	0.00	0.20	0.00	0.00	0.38	0.01	0.00	0.00	0.08
21	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.00	0.00	0.00	0.02	0.00	0.22	0.29	0.00	0.00	0.14	0.00	0.00
23	0.00	0.74	0.95	0.00	0.00	0.47	0.01	0.16	0.00	0.00	0.00	0.00
24	0.09	0.81	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.01
27	0.09	0.37	0.00	0.00	0.16	0.26	0.00	0.00	0.01	0.22	0.00	0.00
28	0.26	0.00	0.00	0.00	0.90	1.77	0.00	0.06	0.10	0.23	0.00	0.00
29	0.09	0.00	0.00	0.00	---	0.00	0.09	0.00	0.23	0.50	0.00	0.00
30	0.00	0.00	0.00	0.46	---	0.00	0.10	0.00	0.01	0.34	0.02	0.00
31	0.00	---	0.00	0.01	---	0.01	---	0.00	---	0.78	0.00	---
TOTAL	0.99	5.31	3.76	2.42	2.59	4.06	2.57	1.66	2.41	7.13	3.47	0.14



02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC

LOCATION.--Lat 35°41'09", long 82°03'37", McDowell County, Hydrologic Unit 03050101, on right bank 18 ft downstream of bridge on Secondary Road 1221, 0.8 mi upstream from Buck Creek, 0.8 mi southeast of Pleasant Gardens, and at mile 297.

DRAINAGE AREA.--126 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1963, 1970-73, 1975. October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,230 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 10,000 ft^3/s on basis of contracted-opening measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	476	210	332	250	216	319	387	255	223	421	278	486
2	421	208	296	244	209	275	471	241	584	442	242	395
3	387	e220	283	239	246	261	464	234	339	498	228	346
4	362	e560	270	236	238	251	422	229	276	514	218	313
5	339	405	259	233	223	250	388	240	237	415	223	292
6	322	307	272	230	218	244	360	233	223	375	239	275
7	310	273	281	224	213	239	354	224	213	2,110	358	263
8	295	253	261	224	212	256	462	217	227	950	1,500	252
9	288	239	419	216	211	235	425	211	218	560	957	243
10	281	231	477	213	209	230	382	209	216	433	620	233
11	269	227	385	210	200	225	358	210	253	627	455	225
12	264	407	340	208	197	220	352	200	555	1,690	375	219
13	310	362	313	268	200	215	441	198	1,260	894	345	214
14	266	303	290	733	215	223	777	200	645	691	327	208
15	252	279	274	343	207	210	556	213	421	602	320	202
16	242	265	265	298	201	223	447	198	337	512	319	198
17	234	253	259	273	195	243	395	190	291	429	414	198
18	229	245	252	255	189	229	366	185	265	414	1,320	188
19	238	240	247	247	187	223	344	182	266	458	660	182
20	234	234	236	245	192	217	325	225	268	584	495	179
21	228	227	232	241	329	211	309	198	261	431	405	176
22	231	223	232	235	325	219	321	186	232	372	405	173
23	253	284	726	226	269	365	330	182	224	350	438	172
24	244	639	458	217	266	299	294	174	209	310	387	167
25	232	605	366	221	247	267	280	171	198	290	350	169
26	224	403	329	220	234	251	273	170	201	273	323	210
27	221	352	302	213	228	282	273	168	423	258	304	182
28	222	343	284	203	344	2,300	257	168	492	250	288	170
29	227	304	274	211	---	731	262	168	597	298	327	169
30	224	288	266	236	---	501	275	168	628	270	951	162
31	215	---	257	228	---	414	---	168	---	280	751	---
TOTAL	8,540	9,389	9,737	7,840	6,420	10,628	11,350	6,215	10,782	17,001	14,822	6,861
MEAN	275	313	314	253	229	343	378	200	359	548	478	229
MAX	476	639	726	733	344	2,300	777	255	1,260	2,110	1,500	486
MIN	215	208	232	203	187	210	257	168	198	250	218	162
CFSM	2.19	2.48	2.49	2.01	1.82	2.72	3.00	1.59	2.85	4.35	3.79	1.82
IN.	2.52	2.77	2.87	2.31	1.90	3.14	3.35	1.83	3.18	5.02	4.38	2.03

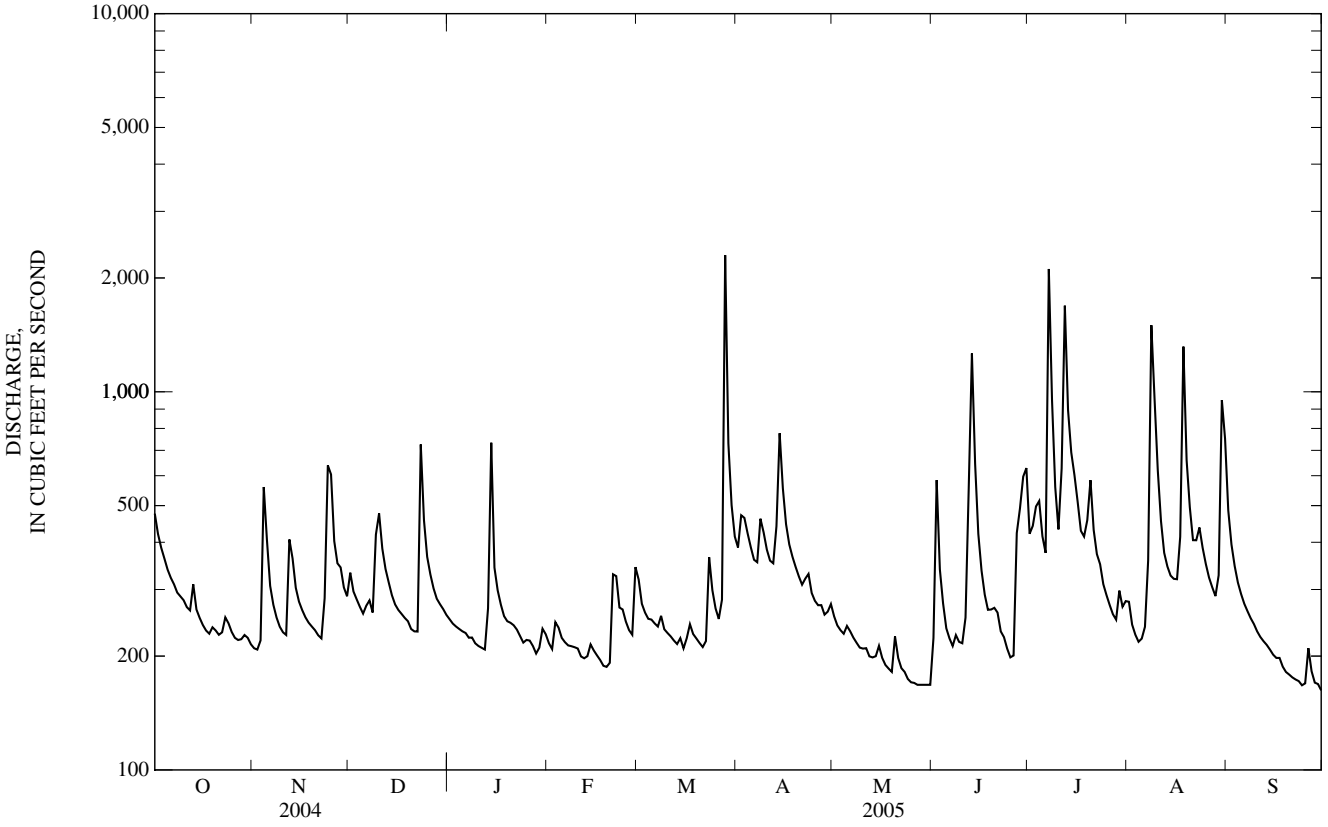
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005, BY WATER YEAR (WY)

MEAN	182	211	225	265	317	337	317	240	210	183	208	215
MAX	550	606	573	620	739	622	688	524	652	548	543	1,418
(WY)	(1996)	(1986)	(1984)	(1995)	(1998)	(1990)	(1983)	(2003)	(1992)	(2005)	(2003)	(2004)
MIN	52.4	63.8	77.6	107	110	130	138	76.2	65.1	49.8	32.3	43.3
(WY)	(2001)	(2002)	(1989)	(1981)	(2001)	(1988)	(1986)	(2001)	(2001)	(2002)	(2002)	(1999)

02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1981 - 2005	
ANNUAL TOTAL	112,659		119,585			
ANNUAL MEAN	308		328		242	
HIGHEST ANNUAL MEAN					351	1984
LOWEST ANNUAL MEAN					103	2002
HIGHEST DAILY MEAN	15,100	Sep 8	2,300	Mar 28	15,100	Sep 8, 2004
LOWEST DAILY MEAN	97	Jun 3	162	Sep 30	14	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	103	Jun 6	169	May 25	17	Aug 9, 2002
MAXIMUM PEAK FLOW			5,640	Jul 7	23,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			9.36	Jul 7	17.55	Sep 8, 2004
INSTANTANEOUS LOW FLOW			158	Sep 30	11	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	2.44		2.60		1.92	
ANNUAL RUNOFF (INCHES)	33.26		35.31		26.11	
10 PERCENT EXCEEDS	406		493		421	
50 PERCENT EXCEEDS	187		261		176	
90 PERCENT EXCEEDS	115		199		74	

* See REMARKS.
e Estimated.



02137727 CATAWBA RIVER NEAR PLEASANT GARDENS, NC—Continued

PRECIPITATION RECORDS

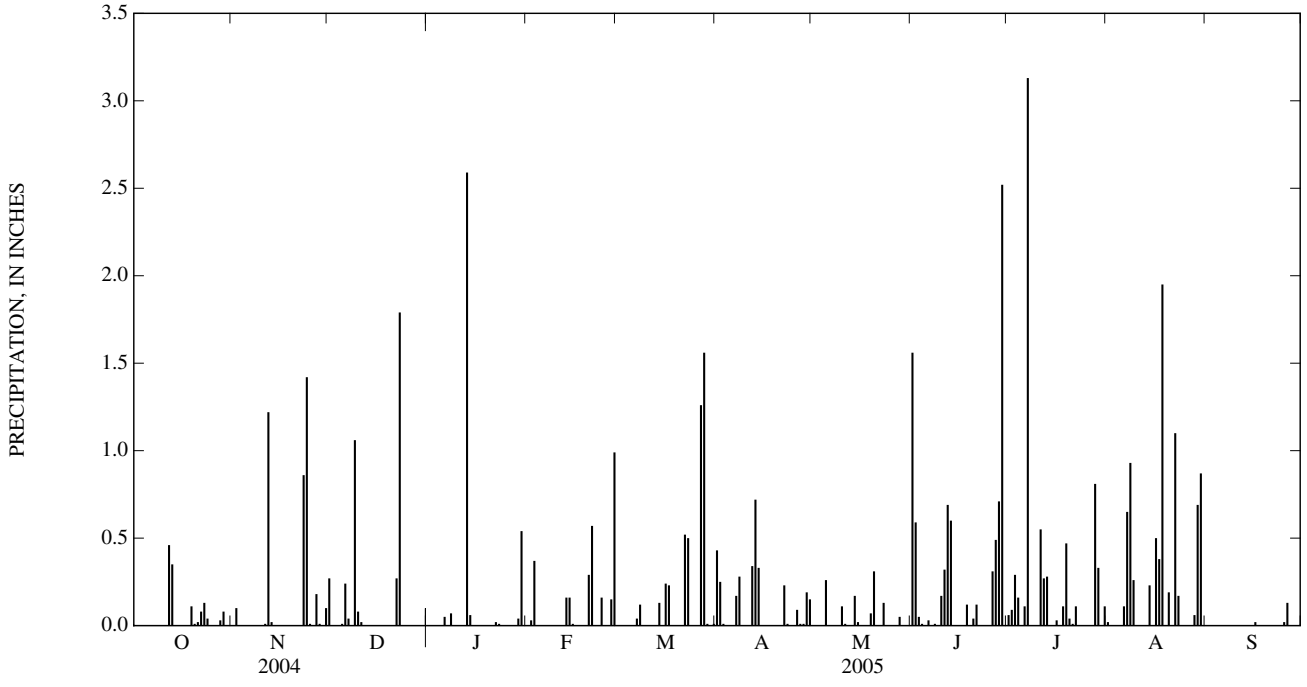
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Duke Energy and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.27	0.00	0.00	0.00	0.43	0.00	1.56	0.06	0.02	0.00
2	0.00	0.10	0.00	0.00	0.03	0.00	0.25	0.00	0.59	0.09	0.00	0.00
3	0.00	---	0.00	0.00	0.37	0.00	0.01	0.00	0.05	0.29	0.00	0.00
4	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.16	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00
6	0.00	0.00	0.24	0.05	0.00	0.00	0.00	0.00	0.03	0.11	0.11	0.00
7	0.00	0.00	0.04	0.00	0.00	0.04	0.17	0.00	0.00	3.13	0.65	0.00
8	0.00	0.00	0.00	0.07	0.00	0.12	0.28	0.00	0.01	0.00	0.93	0.00
9	0.00	0.00	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00
10	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.11	0.17	0.00	0.00	0.00
11	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.01	0.32	0.55	0.00	0.00
12	0.46	1.22	0.00	0.00	0.00	0.00	0.34	0.00	0.69	0.27	0.00	0.00
13	0.35	0.02	0.00	2.59	0.16	0.00	0.72	0.00	0.60	0.28	0.00	0.00
14	0.00	0.00	0.00	0.06	0.16	0.13	0.33	0.17	0.00	0.00	0.23	0.00
15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.03	0.50	0.02
17	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.38	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.11	1.95	0.00
19	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.47	0.00	0.00
20	0.01	0.00	0.00	0.00	0.29	0.00	0.00	0.31	0.04	0.04	0.19	0.00
21	0.02	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.12	0.01	0.00	0.00
22	0.08	0.00	0.27	0.02	0.00	0.52	0.23	0.00	0.00	0.11	1.10	0.00
23	0.13	0.86	1.79	0.01	0.00	0.50	0.01	0.13	0.00	0.00	0.17	0.00
24	0.04	1.42	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
26	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.31	0.00	0.00	0.13
27	0.00	0.18	0.00	0.00	0.15	1.26	0.01	0.00	0.49	0.00	0.00	0.00
28	0.03	0.01	0.00	0.00	0.99	1.56	0.01	0.05	0.71	0.81	0.06	0.00
29	0.08	0.00	0.00	0.04	---	0.01	0.19	0.00	2.52	0.33	0.69	0.00
30	0.00	0.10	0.00	0.54	---	0.00	0.15	0.00	0.00	0.00	0.87	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.00	---	0.11	0.00	---
TOTAL	1.31	---	3.78	3.38	2.89	4.62	3.22	1.13	8.34	6.96	8.11	0.17



02138500 LINVILLE RIVER NEAR NEBO, NC

LOCATION.--Lat 35°47'41", long 81°53'24", Burke County, Hydrologic Unit 03050101, in Pisgah National Forest on right bank 370 ft upstream from bridge on State Highway 126, 0.2 mi downstream of Shooks Creek, 0.5 mi upstream from Lake James, 2.0 mi northeast of Longtown, and 6.0 mi northeast of Nebo.

DRAINAGE AREA.--66.7 mi^2.

PERIOD OF RECORD.--May 1907 to August 1908 (fragmentary). June 1922 to current year. Prior to 1908 published as "Linville River at Fonta Flora" and as "Linville River at Branch" 1923-70. Records for October to December 1908 "Linville River at Fonta Flora" published in WSP 242 have been found to be unreliable and should not be used.

REVISED RECORDS.--WSP 892: 1929, 1935, 1937. WSP 1503: 1923(M), 1924-28, 1930, 1932-33(M), 1938(M), 1939(P). WDR NC-80-1: Drainage area. See also PERIOD OF RECORD.

GAGE.--Water-stage recorder. Datum of gage is 1,203.87 ft above NGVD of 1929. May 1907 to August 1908, nonrecording gage about 1.2 mi downstream at different datum. June 1922 to Aug. 27, 1937, nonrecording gage and Aug. 28, 1937, to Sept. 30, 1970, water-stage recorder at site on right bank 20 ft downstream of bridge on State Highway 126 at 1,204.87 ft. Oct. 1, 1970, to Sept. 30, 1973, at present site at 1,204.87 ft. Oct. 1, 1973, to Aug. 25, 1981, at present site at 1,204.87 ft. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 12,000 ft^3/s on basis of slope area measurement. Maximum gage-height for period of record from high-water mark at gage. Minimum discharge for period of record, result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of about 11 ft at former site and datum; discharge, 34,600 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	320	129	212	183	111	150	272	189	108	e147	163	207
2	301	129	205	175	108	133	463	172	176	134	129	165
3	267	127	188	163	113	123	423	165	131	142	115	147
4	235	191	178	150	127	121	341	157	144	232	109	132
5	206	245	173	146	117	126	302	154	179	171	112	123
6	208	186	171	145	117	150	274	153	165	132	168	114
7	204	167	178	140	119	145	236	145	174	583	135	108
8	179	155	168	139	119	181	350	139	259	698	233	101
9	166	156	186	136	127	188	385	133	231	322	281	94
10	160	149	261	130	131	155	315	136	275	316	360	91
11	157	138	223	127	127	139	277	156	231	180	270	88
12	148	229	202	124	118	134	248	140	188	400	203	83
13	229	306	193	155	116	128	279	131	566	318	176	80
14	192	230	181	1,540	130	133	518	146	338	266	170	76
15	171	201	170	428	145	147	390	197	358	234	142	73
16	179	185	162	300	141	147	318	179	324	251	131	71
17	161	189	159	241	130	145	279	148	285	249	131	82
18	146	172	154	200	112	129	252	135	241	210	1,150	75
19	151	159	150	184	106	130	230	138	190	276	516	69
20	176	157	e146	174	107	126	213	151	164	716	295	66
21	155	150	e142	165	140	121	199	141	165	402	223	67
22	156	145	e137	e158	160	127	205	130	147	300	193	64
23	151	155	658	e153	141	232	234	136	150	243	178	62
24	137	304	491	149	136	247	201	142	146	202	163	61
25	131	496	312	e140	137	201	188	127	141	178	148	58
26	124	300	273	136	122	180	181	114	133	160	140	68
27	129	251	255	130	116	174	180	109	162	152	133	77
28	140	237	232	114	151	766	169	107	193	138	129	68
29	128	210	220	111	---	571	186	105	175	160	117	64
30	147	195	206	125	---	378	229	99	e160	140	177	63
31	136	---	194	120	---	307	---	98	---	180	448	---
TOTAL	5,490	6,043	6,780	6,481	3,524	6,134	8,337	4,372	6,299	8,232	7,038	2,697
MEAN	177	201	219	209	126	198	278	141	210	266	227	89.9
MAX	320	496	658	1,540	160	766	518	197	566	716	1,150	207
MIN	124	127	137	111	106	121	169	98	108	132	109	58
CFSM	2.66	3.02	3.28	3.13	1.89	2.97	4.17	2.11	3.15	3.98	3.40	1.35
IN.	3.06	3.37	3.78	3.61	1.97	3.42	4.65	2.44	3.51	4.59	3.93	1.50

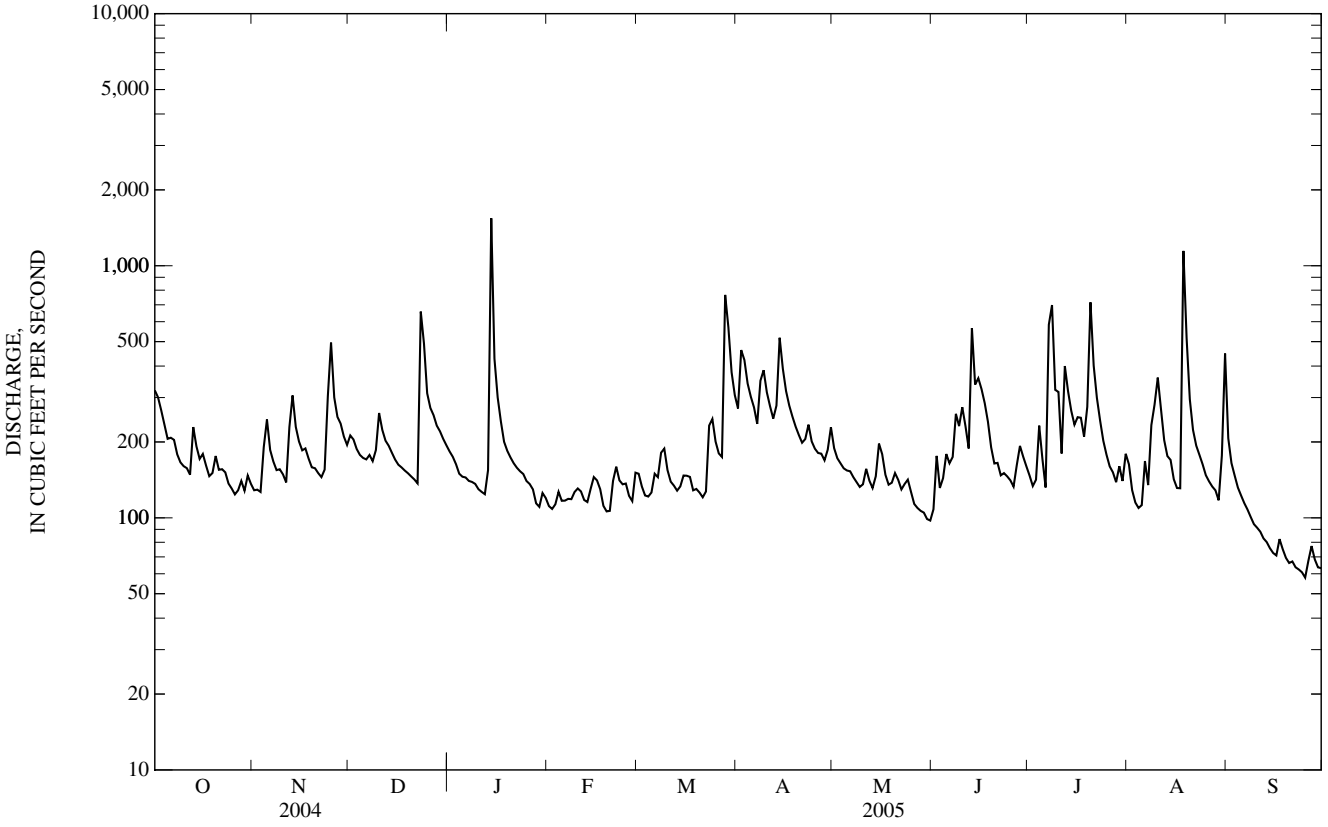
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2005, BY WATER YEAR (WY)

MEAN	122	139	139	174	190	230	202	147	130	100	119	128
MAX	433	678	349	664	569	632	479	369	598	449	1,084	1,570
(WY)	(1937)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(1989)	(1940)	(2004)
MIN	18.9	27.8	30.9	31.8	60.8	74.3	62.0	48.9	33.7	23.0	15.5	13.8
(WY)	(1955)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1930)	(1925)	(1925)

02138500 LINVILLE RIVER NEAR NEBO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1922 - 2005	
ANNUAL TOTAL	94,942		71,427			
ANNUAL MEAN	259		196		152	
HIGHEST ANNUAL MEAN					259	2004
LOWEST ANNUAL MEAN					77.6	1988
HIGHEST DAILY MEAN	16,600	Sep 8	1,540	Jan 14	16,600	Sep 8, 2004
LOWEST DAILY MEAN	34	Aug 21	58	Sep 25	8.0	Sep 7, 1925
ANNUAL SEVEN-DAY MINIMUM	40	Aug 17	64	Sep 20	10	Aug 22, 1925
MAXIMUM PEAK FLOW			3,060	Jan 14	42,400*	Sep 8, 2004
MAXIMUM PEAK STAGE			4.78	Jan 14	13.68*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			54	Sep 24	2.0*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	3.89		2.93		2.27	
ANNUAL RUNOFF (INCHES)	52.95		39.84		30.87	
10 PERCENT EXCEEDS	272		306		267	
50 PERCENT EXCEEDS	136		160		100	
90 PERCENT EXCEEDS	69		112		38	

* See REMARKS.
e Estimated.



0213903612 CATAWBA RIVER AT CALVIN, NC

LOCATION.--Lat 35°41'05", long 81°24'11", Burke County, Hydrologic Unit 03050101, on right bank at City of Morganton's water intake, 0.5 mi upstream from Canoe Creek, and 0.5 mi north of Calvin.

DRAINAGE AREA.--508 mi^2.

PERIOD OF RECORD.--July 1991 to current year.

REVISED RECORDS.--WDR NC-04-1: 1994(M), 1995(M), 1996(M), 2003(M).

GAGE.--Water-stage recorder. Datum of gage is 1,002.40 ft above NGVD of 1929 (levels by City of Morganton). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. City of Morganton diverted about 11.8 ft^3/s from Catawba River for municipal water supply. Considerable regulation, at times, caused by Lake James (station 02138519), 6.5 mi upstream. Maximum discharge for period of record from rating curve extended above 26,000 ft^3/s, by logarithmic plotting, maximum gage-height, 26.30 ft, from high-water mark at gage. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,500	1,030	1,760	894	831	903	532	714	349	1,440	1,400	958
2	2,470	1,030	1,490	1,350	832	832	1,040	807	1,180	1,380	1,200	957
3	2,470	1,040	2,350	2,360	862	817	571	814	1,660	1,100	977	938
4	2,450	1,430	1,930	1,180	841	549	966	715	1,270	619	396	1,130
5	2,440	1,290	979	193	674	449	920	521	1,160	1,430	1,180	1,300
6	2,360	958	1,120	196	577	441	1,220	644	675	1,810	883	1,070
7	2,380	1,270	1,590	189	1,030	584	1,080	437	809	3,280	799	1,060
8	1,520	1,020	1,460	187	1,050	388	1,370	416	603	3,270	1,020	1,090
9	1,260	986	998	494	899	509	2,080	606	743	2,930	1,370	1,020
10	1,260	966	1,040	774	1,050	580	2,510	622	1,830	2,800	1,340	1,160
11	1,250	857	1,500	802	1,250	570	2,050	551	2,410	2,660	1,590	1,110
12	1,060	1,230	1,180	749	1,690	561	1,130	510	1,640	2,850	2,410	893
13	1,270	1,240	663	737	1,710	568	1,380	531	1,530	2,880	1,780	916
14	1,250	1,150	551	1,210	1,720	568	2,010	541	2,420	2,800	1,680	853
15	1,260	936	799	1,140	1,740	470	1,930	659	2,420	2,360	1,670	908
16	1,250	870	671	1,040	1,260	481	1,850	1,120	2,420	2,660	1,360	898
17	1,250	870	1,070	1,280	1,040	517	1,830	536	1,990	2,680	1,010	667
18	1,230	2,280	1,040	1,940	1,050	952	1,780	532	877	2,530	5,310	634
19	1,210	2,290	1,040	2,370	1,030	557	1,770	524	893	2,660	2,750	425
20	1,220	2,300	1,010	2,370	638	484	1,800	564	964	2,650	2,610	648
21	1,210	2,290	1,040	1,960	1,130	735	1,250	554	970	2,620	2,540	625
22	1,180	1,870	726	683	1,170	736	1,550	531	962	2,750	2,610	596
23	1,660	996	1,130	825	1,130	770	950	539	732	2,630	2,810	602
24	1,530	897	1,060	1,670	959	1,190	1,060	532	697	2,570	2,560	611
25	337	1,080	1,190	1,700	940	1,160	1,070	515	710	1,910	2,490	604
26	328	1,230	1,300	1,250	936	981	1,080	518	732	1,420	2,480	604
27	753	1,150	1,680	916	926	975	799	514	685	1,080	2,420	608
28	689	1,120	1,690	901	837	2,300	906	351	1,120	781	2,490	605
29	359	1,270	1,930	577	---	1,490	898	344	1,860	1,240	2,410	609
30	549	1,720	1,850	592	---	2,370	705	347	1,960	1,150	1,390	543
31	523	---	1,510	689	---	629	---	335	---	998	982	---
TOTAL	42,478	38,666	39,347	33,218	29,802	25,116	40,087	17,444	38,271	65,938	57,917	24,642
MEAN	1,370	1,289	1,269	1,072	1,064	810	1,336	563	1,276	2,127	1,868	821
MAX	2,500	2,300	2,350	2,370	1,740	2,370	2,510	1,120	2,420	3,280	5,310	1,300
MIN	328	857	551	187	577	388	532	335	349	619	396	425
†	-366	-87	-74	+9	-213	+418	+49	+125	-30	-173	+67	-108

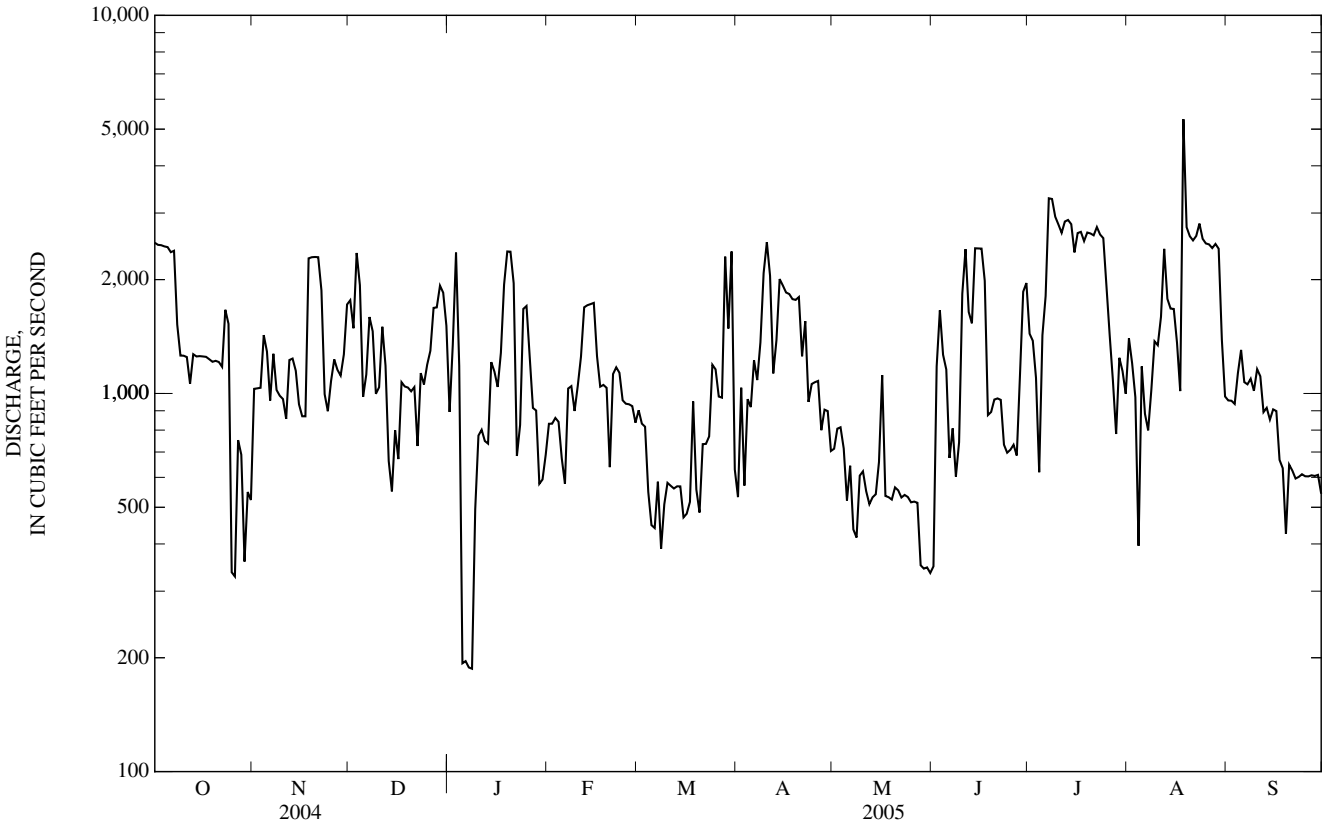
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	637	703	880	1,127	1,120	1,122	1,099	815	866	767	872	915
MAX	1,943	1,615	1,700	2,438	2,659	2,093	2,259	1,627	2,103	2,127	2,078	5,505
(WY)	(1996)	(1993)	(1993)	(1995)	(1998)	(1993)	(2003)	(2003)	(1992)	(2005)	(1994)	(2004)
MIN	227	294	298	327	291	409	437	322	355	380	278	200
(WY)	(2003)	(2001)	(1999)	(2002)	(2002)	(1999)	(1999)	(2002)	(2001)	(2001)	(2002)	(2002)

0213903612 CATAWBA RIVER AT CALVIN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	460,682		452,926	‡1,211		(UNADJUSTED)
ANNUAL MEAN	1,259		1,241		910	
HIGHEST ANNUAL MEAN					1,241	2005
LOWEST ANNUAL MEAN					376	2002
HIGHEST DAILY MEAN	34,700	Sep 9	5,310	Aug 18	34,700	Sep 9, 2004
LOWEST DAILY MEAN	256	Apr 6	187	Jan 8	36	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	453	Aug 6	394	May 26	112	Oct 10, 1993
MAXIMUM PEAK FLOW			8,920	Aug 18	52,600*	Sep 9, 2004
MAXIMUM PEAK STAGE			9.12	Aug 18	26.30*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			104*	Jan 5	2.1*	Sep 12, 2002
10 PERCENT EXCEEDS	2,040		2,420		1,790	
50 PERCENT EXCEEDS	760		1,050		657	
90 PERCENT EXCEEDS	532		532		274	

† Change in contents, equivalent in cubic feet per second, in Lake James, provided by Duke Power Company.
‡ Adjusted for change in contents.
* See REMARKS.



02140991 JOHNS RIVER AT ARNEYS STORE, NC

LOCATION.--Lat 35°50'01", long 81°42'43", Burke County, Hydrologic Unit 03050101, on right bank 12 ft downstream of bridge on Secondary Road 1438, 0.2 mi downstream of Sims Branch, and 0.8 mi northeast of Arneys Store.

DRAINAGE AREA.--201 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1974-84. May 1985 to current year.

REVISED RECORDS.--WDR NC-87-1: 1985-86 (P). WDR NC-04-1: 1994(M), 1995(M).

GAGE.--Water-stage recorder. Datum of gage is 1,001.74 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 12,500 ft^3/s on basis of slope-area measurement; maximum gage height from high-water mark. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684	388	559	450	391	551	588	380	243	432	493	503
2	615	375	512	433	372	437	1,070	357	658	499	374	431
3	568	374	484	419	411	398	977	346	471	701	327	390
4	534	749	461	409	429	379	794	335	378	3,180	303	358
5	495	739	439	401	396	388	682	336	326	845	287	339
6	469	558	434	393	384	406	599	342	294	558	367	318
7	447	496	449	380	372	391	554	323	318	2,910	388	307
8	423	455	424	383	369	422	692	312	659	2,550	534	298
9	410	417	501	366	369	393	636	298	444	e1,000	601	290
10	407	397	709	354	366	368	550	288	561	e760	535	275
11	388	385	613	349	348	360	517	257	576	e740	480	266
12	379	663	543	341	336	352	495	268	523	799	393	256
13	560	767	503	361	334	343	588	281	2,070	664	365	252
14	483	592	466	2,860	363	364	1,130	306	1,400	576	571	242
15	403	522	437	1,040	347	347	784	396	747	526	457	234
16	374	489	421	755	335	351	644	360	e595	591	391	229
17	357	461	410	634	328	398	571	296	e523	576	423	243
18	343	438	402	551	315	375	531	281	e461	560	3,630	230
19	364	423	393	513	303	360	499	313	e413	901	1,650	217
20	405	408	370	498	309	346	471	383	e376	1,220	980	211
21	360	391	363	476	373	336	445	310	359	726	733	213
22	363	381	362	450	362	330	470	274	325	586	e620	206
23	407	448	1,760	e433	328	612	517	275	297	517	e540	208
24	419	863	1,230	e427	356	593	434	266	276	441	499	197
25	390	1,240	813	406	351	495	414	249	262	403	448	192
26	366	761	679	398	327	453	396	241	255	369	415	223
27	364	630	597	384	321	450	405	234	264	345	390	240
28	404	608	541	357	521	2,260	375	230	339	343	374	205
29	418	536	513	363	---	1,430	410	226	442	482	361	203
30	464	502	492	428	---	887	428	223	400	394	619	192
31	418	---	469	425	---	692	---	216	---	580	828	---
TOTAL	13,481	16,456	17,349	16,437	10,116	16,267	17,666	9,202	15,255	25,774	19,376	7,968
MEAN	435	549	560	530	361	525	589	297	508	831	625	266
MAX	684	1,240	1,760	2,860	521	2,260	1,130	396	2,070	3,180	3,630	503
MIN	343	374	362	341	303	330	375	216	243	343	287	192
CFSM	2.16	2.73	2.78	2.64	1.80	2.61	2.93	1.48	2.53	4.14	3.11	1.32
IN.	2.49	3.05	3.21	3.04	1.87	3.01	3.27	1.70	2.82	4.77	3.59	1.47

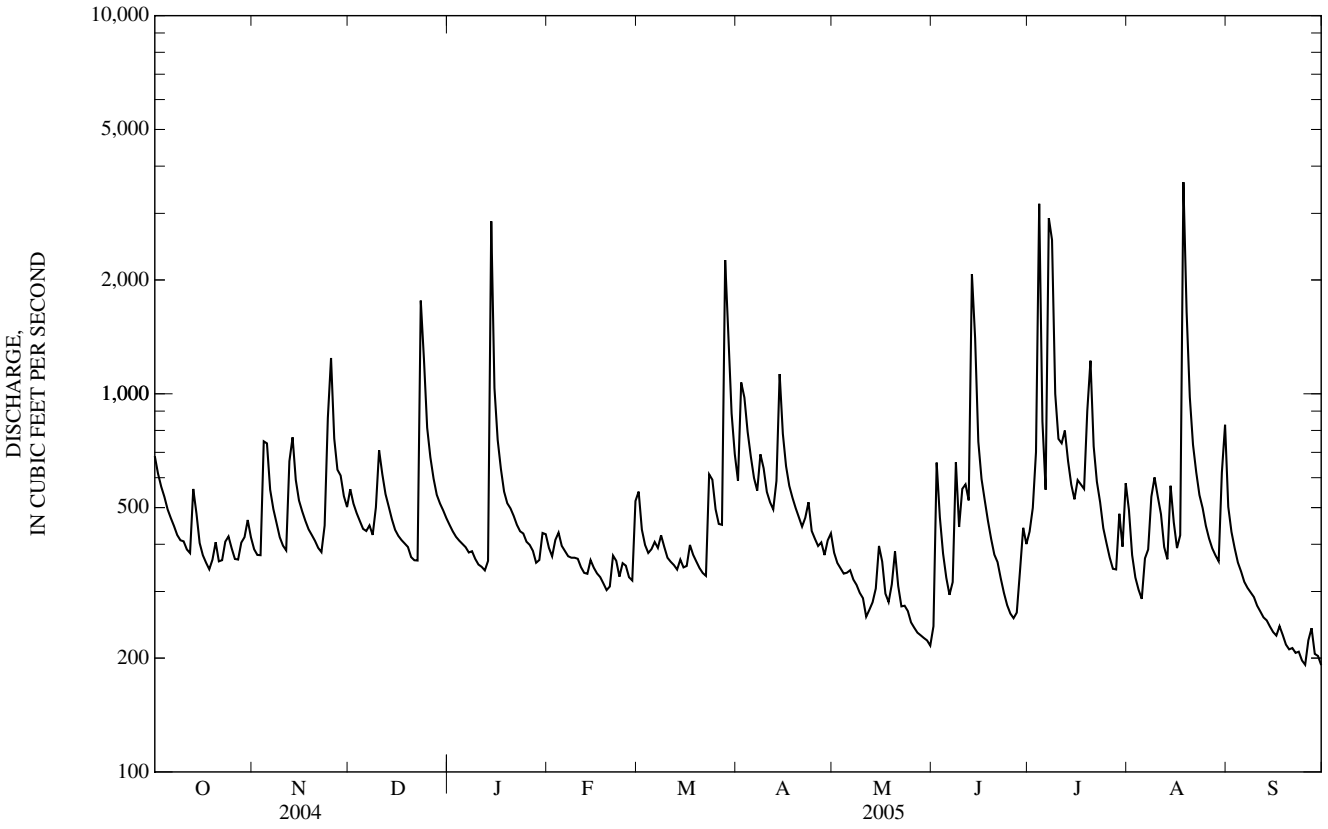
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)

MEAN	264	346	331	425	405	529	472	338	338	282	310	321
MAX	890	938	602	1,388	838	1,151	883	595	963	831	1,070	2,087
(WY)	(1991)	(1993)	(1997)	(1995)	(1990)	(1993)	(1987)	(1993)	(1992)	(2005)	(1994)	(2004)
MIN	79.1	104	113	170	138	179	206	128	94.5	75.5	42.6	88.7
(WY)	(2001)	(2002)	(1989)	(2001)	(2001)	(1988)	(1986)	(2001)	(2002)	(1988)	(2002)	(1999)

02140991 JOHNS RIVER AT ARNEYS STORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005	
ANNUAL TOTAL	191,292		185,347			
ANNUAL MEAN	523		508		364	
HIGHEST ANNUAL MEAN					521	2004
LOWEST ANNUAL MEAN					164	2002
HIGHEST DAILY MEAN	19,400	Sep 8	3,630	Aug 18	19,400	Sep 8, 2004
LOWEST DAILY MEAN	140	Aug 11	192	Sep 25	19	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	156	Aug 5	206	Sep 19	24	Sep 8, 2002
MAXIMUM PEAK FLOW			8,110	Jul 7	39,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			13.01	Jul 7	28.60*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			186*	Sep 25	19*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	2.60		2.53		1.81	
ANNUAL RUNOFF (INCHES)	35.40		34.30		24.63	
10 PERCENT EXCEEDS	701		739		630	
50 PERCENT EXCEEDS	364		410		263	
90 PERCENT EXCEEDS	219		275		104	

* See REMARKS.
e Estimated.



02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC

LOCATION.--Lat 35°56'44", long 81°14'13", Alexander County, Hydrologic Unit 03050101, on left bank at upstream side of bridge on Secondary Road 1313, 0.3 mi downstream of Grassy Creek, 0.4 mi upstream from Lambert Creek, 2.2 mi northeast of All Healing Springs, and 4 mi northwest of Taylorsville.

DRAINAGE AREA.--28.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October to December 1952 (monthly discharge only), January 1953 to September 1995, October 1997 to current year.

REVISED RECORDS.--WDR NC-79-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 1,070 ft above NGVD of 1929, by barometer. Prior to June 13, 1953, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for period of record result of freezeup.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	24	43	34	33	56	56	36	27	25	25	16
2	36	23	37	33	31	45	69	34	45	24	21	15
3	33	23	35	32	37	41	54	33	33	23	20	14
4	29	55	32	31	35	38	49	32	28	21	18	14
5	26	44	30	31	33	37	46	34	25	20	17	14
6	24	36	30	31	32	34	43	33	23	19	17	13
7	23	32	31	30	31	33	44	32	33	179	17	13
8	21	28	28	30	31	36	47	30	56	79	18	13
9	21	26	69	28	31	32	44	29	41	39	18	13
10	21	25	154	28	31	31	41	29	35	31	24	12
11	20	24	102	27	29	30	40	29	35	29	17	12
12	20	123	70	27	29	29	39	27	30	52	16	12
13	117	85	55	33	28	29	57	28	33	78	15	12
14	46	50	45	160	30	29	93	30	33	70	15	12
15	35	40	41	67	29	28	63	31	26	45	14	12
16	30	35	38	50	28	32	52	29	23	46	15	12
17	26	32	36	43	27	35	47	27	21	47	17	12
18	25	30	35	39	26	33	44	26	21	39	38	11
19	25	28	33	37	26	31	42	26	29	33	27	11
20	24	27	31	36	27	30	39	63	32	30	21	11
21	23	26	30	35	31	29	38	35	28	26	19	11
22	22	25	30	34	28	30	49	30	23	24	17	11
23	22	29	135	32	27	67	51	30	21	23	18	11
24	24	62	90	32	29	54	42	27	20	21	18	11
25	22	74	58	31	28	45	40	26	20	20	17	11
26	21	50	48	31	27	41	39	25	20	19	16	13
27	23	43	42	29	27	41	41	24	19	19	16	13
28	31	42	38	27	70	278	37	24	20	25	16	12
29	29	37	37	29	---	129	40	24	22	46	16	12
30	28	34	36	39	---	79	39	24	25	31	19	11
31	25	---	35	36	---	62	---	24	---	29	22	---
TOTAL	909	1,212	1,554	1,182	871	1,544	1,425	931	847	1,212	584	370
MEAN	29.3	40.4	50.1	38.1	31.1	49.8	47.5	30.0	28.2	39.1	18.8	12.3
MAX	117	123	154	160	70	278	93	63	56	179	38	16
MIN	20	23	28	27	26	28	37	24	19	19	14	11
CFSM	1.04	1.43	1.78	1.35	1.10	1.77	1.68	1.06	1.00	1.39	0.67	0.44
IN.	1.20	1.60	2.05	1.56	1.15	2.04	1.88	1.23	1.12	1.60	0.77	0.49

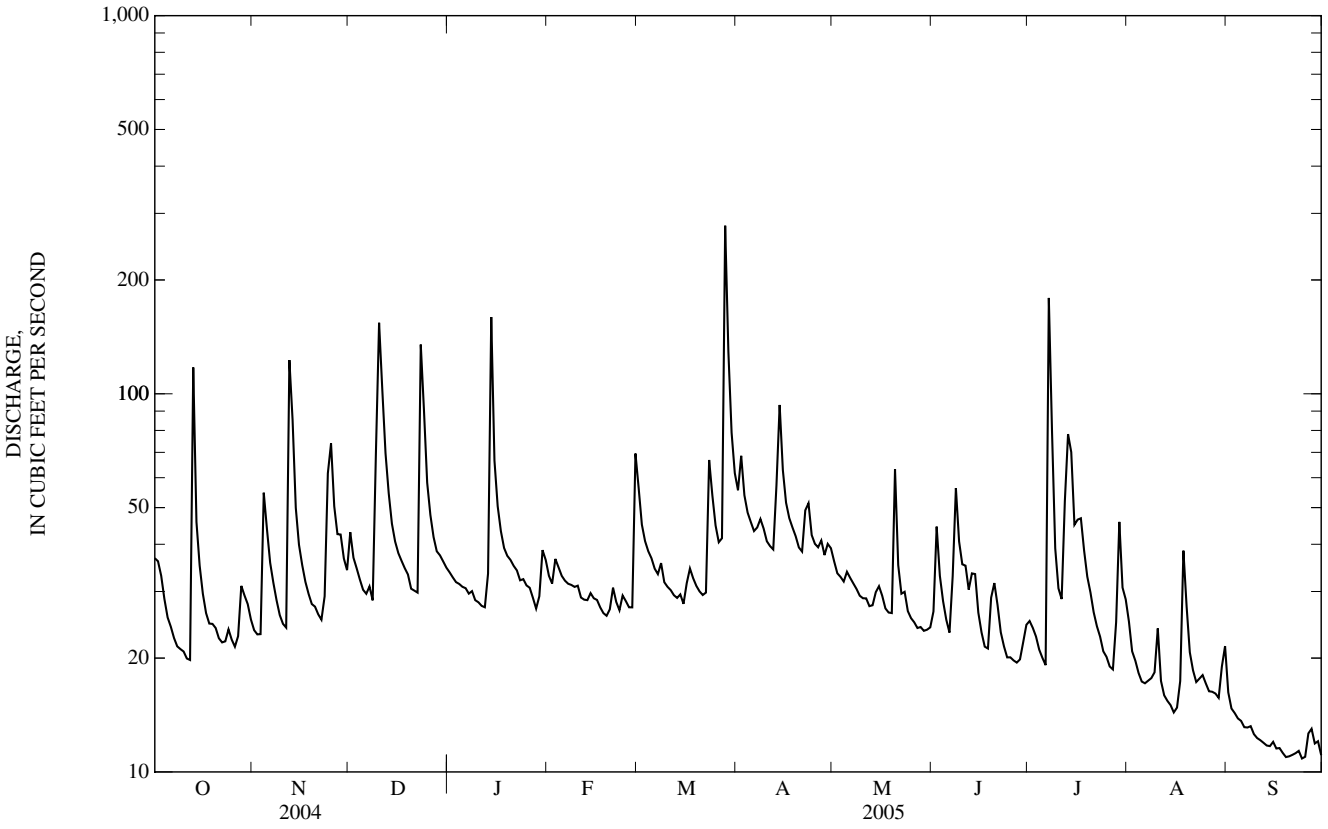
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2005,@ BY WATER YEAR (WY)

MEAN	27.2	28.0	35.6	41.5	49.8	58.0	57.4	40.8	36.9	28.1	26.1	25.1
MAX	103	115	76.3	117	134	153	137	98.5	106	88.1	123	102
(WY)	(1965)	(1978)	(1984)	(1978)	(1960)	(1975)	(1958)	(1975)	(1975)	(1984)	(1970)	(1979)
MIN	6.04	7.03	8.16	9.36	10.8	21.1	17.5	11.9	6.63	7.15	3.83	4.75
(WY)	(1955)	(1956)	(1956)	(1956)	(2001)	(1956)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1953 - 2005[@]	
ANNUAL TOTAL	12,314		12,641			
ANNUAL MEAN	33.6		34.6		38.0	
HIGHEST ANNUAL MEAN					65.2	1993
LOWEST ANNUAL MEAN					13.7	2002
HIGHEST DAILY MEAN	306	Sep 8	278	Mar 28	2,270	Aug 10, 1970
LOWEST DAILY MEAN	12	Aug 7	11	Sep 18	1.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	13	Aug 4	11	Sep 18	2.0	Sep 8, 2002
MAXIMUM PEAK FLOW			730	Jul 7	4,850	Aug 10, 1970
MAXIMUM PEAK STAGE			5.95	Jul 7	15.68	Aug 10, 1970
INSTANTANEOUS LOW FLOW			9.6	Sep 25	0.32*	Jan 3, 2001
ANNUAL RUNOFF (CFSM)	1.19		1.23		1.35	
ANNUAL RUNOFF (INCHES)	16.24		16.68		18.29	
10 PERCENT EXCEEDS	49		53		66	
50 PERCENT EXCEEDS	28		30		26	
90 PERCENT EXCEEDS	16		16		12	

[@] See PERIOD OF RECORD.
* See REMARKS.



02142000 LOWER LITTLE RIVER NEAR ALL HEALING SPRINGS, NC—Continued

PRECIPITATION RECORDS

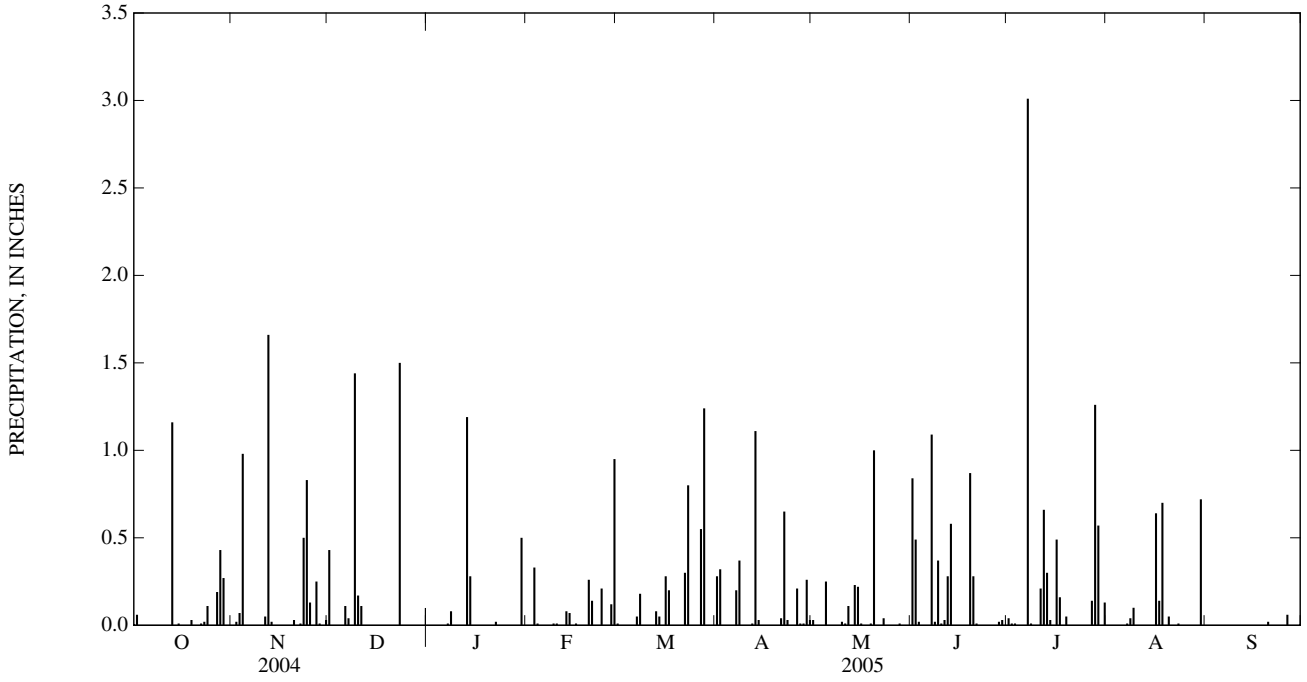
PERIOD OF RECORD.--August 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.43	0.00	0.00	0.01	0.28	0.03	0.84	0.04	0.00	0.00
2	0.06	0.02	0.00	0.00	0.00	0.00	0.32	0.00	0.49	0.01	0.00	0.00
3	0.00	0.07	0.00	0.00	0.33	0.00	0.00	0.00	0.02	0.01	0.00	0.00
4	0.00	0.98	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00
6	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.04	0.01	0.00	0.05	0.20	0.00	1.09	3.01	0.01	0.00
8	0.00	0.00	0.00	0.08	0.00	0.18	0.37	0.00	0.02	0.01	0.04	0.00
9	0.00	0.00	1.44	0.00	0.01	0.00	0.00	0.00	0.37	0.00	0.10	0.00
10	0.00	0.00	0.17	0.00	0.01	0.00	0.00	0.02	0.01	0.00	0.00	0.00
11	0.00	0.05	0.11	0.00	0.00	0.00	0.00	0.01	0.03	0.21	0.00	0.00
12	0.00	1.66	0.00	0.00	0.00	0.00	0.01	0.11	0.28	0.66	0.00	0.00
13	1.16	0.02	0.00	1.19	0.08	0.08	1.11	0.00	0.58	0.30	0.00	0.00
14	0.00	0.00	0.00	0.28	0.07	0.05	0.03	0.23	0.00	0.03	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.28	0.00	0.01	0.00	0.49	0.64	0.00
17	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.16	0.14	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00
19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.87	0.05	0.00	0.00
20	0.00	0.03	0.00	0.00	0.26	0.00	0.00	1.00	0.28	0.00	0.05	0.02
21	0.00	0.00	0.00	0.00	0.14	0.00	0.04	0.00	0.01	0.00	0.00	0.00
22	0.01	0.01	0.00	0.02	0.00	0.30	0.65	0.00	0.00	0.00	0.00	0.00
23	0.02	0.50	1.50	0.00	0.00	0.80	0.03	0.04	0.00	0.00	0.01	0.00
24	0.11	0.83	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.06
27	0.19	0.25	0.00	0.00	0.12	0.55	0.01	0.00	0.00	0.14	0.00	0.00
28	0.43	0.01	0.00	0.00	0.95	1.24	0.01	0.01	0.02	1.26	0.00	0.00
29	0.27	0.00	0.00	0.00	---	0.00	0.26	0.00	0.03	0.57	0.00	0.00
30	0.00	0.03	0.00	0.50	---	0.00	0.03	0.00	0.00	0.00	0.72	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.13	0.00	---
TOTAL	2.29	4.59	3.80	2.08	2.20	3.74	3.56	1.94	4.94	7.08	2.41	0.08



0214253830 NORWOOD CREEK NEAR TROUTMAN, NC

LOCATION.--Lat 35°40'50", long 80°56'43", Iredell County, Hydrologic Unit 03050101, on left upstream wingwall of culvert on Secondary Road 1328, 0.4 mi upstream from Lake Norman, 0.7 mi downstream of Powder Spring Branch, 1.0 mi northeast of East Monbo, and 3.7 mi southwest of Troutman.

DRAINAGE AREA.--7.18 mi^2.

PERIOD OF RECORD.--December 1983 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 761.09 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and for period of beaver affected gage-height, May 12 to July 12, which is poor. Minimum discharge for current water year occurred many days in Sept.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.1	3.5	7.6	6.3	9.0	15	6.9	6.6	9.6	7.6	5.9	1.9
2	4.7	3.5	7.0	6.1	8.8	9.6	6.8	6.2	7.6	7.7	4.7	1.9
3	4.7	3.7	6.7	6.0	11	8.4	6.3	6.1	5.7	7.1	4.3	1.8
4	4.3	43	6.5	5.9	11	7.8	6.0	5.8	6.6	6.8	4.1	1.8
5	3.9	12	6.3	5.8	10	7.5	5.8	5.7	7.2	6.0	4.0	1.7
6	3.7	7.9	6.3	5.8	9.8	7.2	5.8	5.8	6.9	5.7	4.0	1.7
7	3.6	6.7	6.9	5.6	9.7	7.1	5.7	5.6	14	10	4.4	1.7
8	3.6	6.1	6.5	5.6	9.6	8.3	5.8	5.6	10	7.0	4.3	1.7
9	3.5	e5.5	21	5.3	9.7	7.4	6.1	5.7	6.4	5.2	7.9	1.8
10	3.5	e5.3	218	5.3	9.8	7.1	5.1	5.4	6.7	5.4	17	1.8
11	3.5	e5.0	25	5.2	9.5	7.1	5.1	5.8	7.3	5.7	5.1	1.7
12	3.4	e24	15	5.1	9.6	6.9	5.2	5.4	7.8	5.3	4.4	1.7
13	3.8	14	12	5.1	9.6	6.9	7.9	6.5	8.0	7.6	4.1	1.6
14	3.6	8.0	10	19	10	7.3	33	5.7	7.6	6.8	4.0	1.7
15	3.5	e7.0	9.2	7.8	10	6.9	9.0	5.6	7.7	5.7	3.8	1.7
16	3.5	e6.5	8.6	6.3	10	7.8	7.0	4.6	7.6	5.0	3.7	1.7
17	3.6	6.0	8.3	5.8	10	9.9	6.3	4.6	7.2	4.9	4.1	1.8
18	3.5	5.9	7.9	5.3	10	9.3	5.9	4.9	6.3	4.5	7.8	1.8
19	3.8	5.8	7.6	5.2	10	8.3	5.7	5.2	5.7	4.4	3.3	1.7
20	3.7	6.1	7.2	e5.2	11	8.0	5.4	6.2	5.5	4.3	2.5	1.6
21	3.6	5.8	7.0	e5.2	13	7.6	5.1	5.8	4.8	4.3	2.3	1.7
22	3.6	6.0	7.0	e5.1	12	7.6	5.8	6.2	4.3	4.3	2.2	1.7
23	3.5	11	12	e5.1	12	10	5.1	7.6	3.6	4.3	2.2	1.7
24	3.6	16	9.8	e5.0	e10	9.1	4.8	8.9	3.7	4.1	2.2	1.6
25	3.6	16	8.1	e5.2	8.4	8.3	4.9	8.4	3.8	4.1	2.2	1.6
26	3.5	9.5	7.5	e5.5	7.6	8.0	5.0	9.2	3.8	4.0	2.1	1.7
27	3.7	8.9	7.1	e6.0	7.4	8.0	5.2	9.7	4.0	3.9	2.1	1.7
28	4.6	10	6.8	e7.0	37	129	5.1	10	4.7	3.8	2.1	1.7
29	3.9	7.9	6.7	8.3	---	17	5.5	11	4.5	5.0	2.1	1.8
30	3.6	7.6	6.6	9.9	---	8.8	5.8	10	6.6	4.6	2.1	1.7
31	3.5	---	6.4	9.3	---	7.4	---	10	---	9.9	2.0	---
TOTAL	117.2	284.2	488.6	199.3	305.5	384.6	203.1	209.8	195.2	175.0	127.0	51.7
MEAN	3.78	9.47	15.8	6.43	10.9	12.4	6.77	6.77	6.51	5.65	4.10	1.72
MAX	5.1	43	218	19	37	129	33	11	14	10	17	1.9
MIN	3.4	3.5	6.3	5.0	7.4	6.9	4.8	4.6	3.6	3.8	2.0	1.6
CFSM	0.53	1.32	2.20	0.90	1.52	1.73	0.94	0.94	0.91	0.79	0.57	0.24
IN.	0.61	1.47	2.53	1.03	1.58	1.99	1.05	1.09	1.01	0.91	0.66	0.27

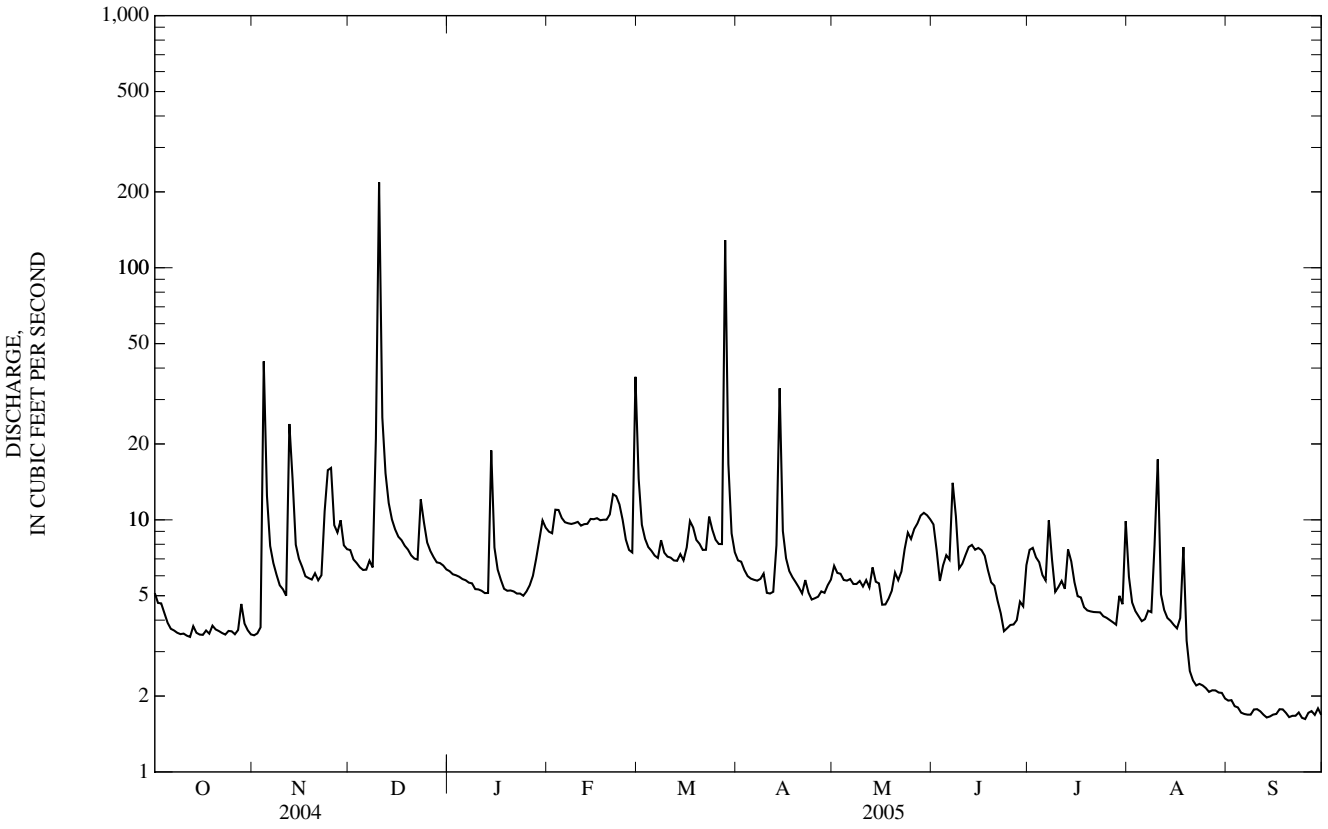
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	7.56	7.03	8.36	9.73	12.2	13.5	11.3	6.94	6.70	5.27	5.02	4.62
MAX	36.1	16.9	15.8	21.0	25.1	35.2	29.7	15.2	24.4	22.1	13.0	13.7
(WY)	(1991)	(1993)	(2005)	(1993)	(1990)	(1993)	(2003)	(1990)	(1992)	(1989)	(1994)	(2004)
MIN	1.01	1.38	1.97	2.81	3.54	4.49	3.60	2.39	1.61	1.41	0.85	1.53
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(1986)	(2001)	(1986)	(2000)	(2000)	(2001)

0214253830 NORWOOD CREEK NEAR TROUTMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1984 - 2005	
ANNUAL TOTAL	2,674.0		2,741.2			
ANNUAL MEAN	7.31		7.51		8.00	
HIGHEST ANNUAL MEAN					13.5	2003
LOWEST ANNUAL MEAN					2.77	2002
HIGHEST DAILY MEAN	281	Sep 28	218	Dec 10	550	Mar 20, 2003
LOWEST DAILY MEAN	1.6	Jul 24	1.6*	Sep 13	0.48	Aug 10, 2002
ANNUAL SEVEN-DAY MINIMUM	1.7	Jul 20	1.7	Sep 19	0.58	Sep 7, 2002
MAXIMUM PEAK FLOW			901	Dec 10	NOT DETERMINED	
MAXIMUM PEAK STAGE			8.14	Dec 10	10.18	Jun 16, 2003
INSTANTANEOUS LOW FLOW			1.6	Sep 6	0.40	Aug 21, 2002
ANNUAL RUNOFF (CFSM)	1.02		1.05		1.11	
ANNUAL RUNOFF (INCHES)	13.85		14.20		15.14	
10 PERCENT EXCEEDS	8.2		10		11	
50 PERCENT EXCEEDS	5.5		5.8		5.2	
90 PERCENT EXCEEDS	2.4		2.2		2.3	

* See REMARKS.
e Estimated.



02142651 CRN24

LOCATION.--Lat 35°27'50", long 80°52'35", Mecklenburg County, Hydrologic Unit 03050101, McDowell Creek at Westmoreland Road near Cornelius, NC.

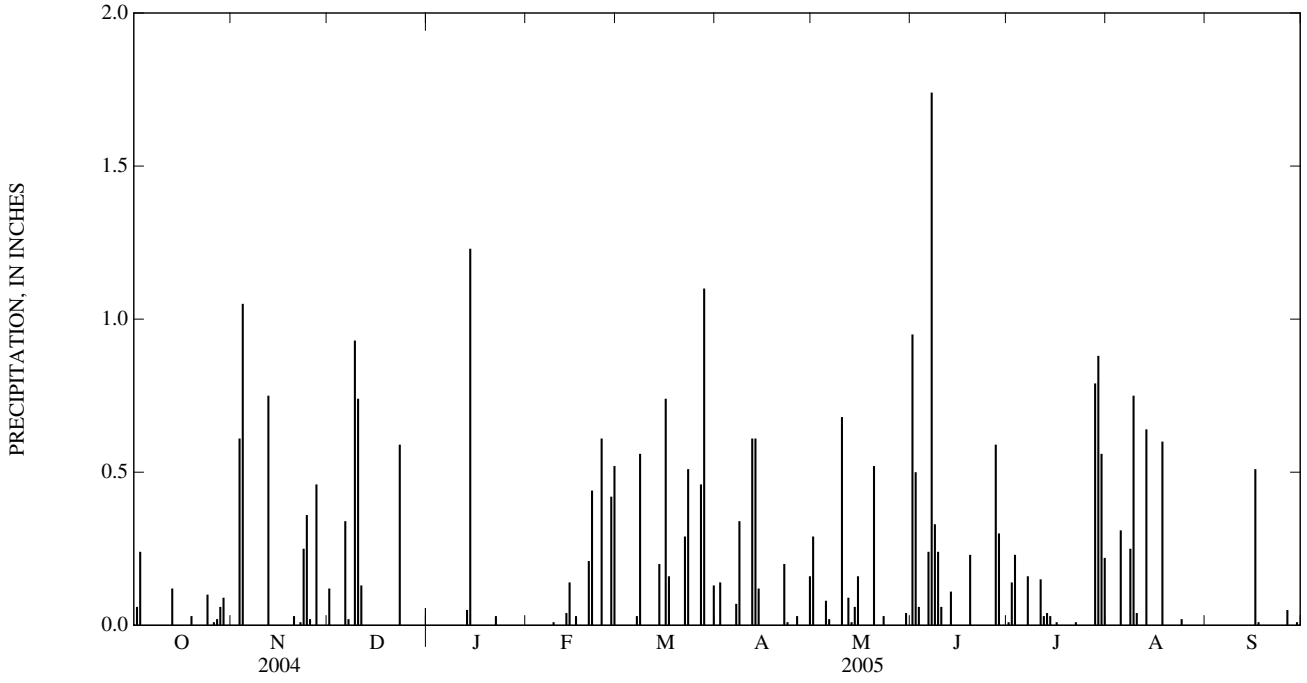
PERIOD OF RECORD.-- May 1994 to current year. Records for period May 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.12	0.00	---	0.00	0.00	0.29	0.95	0.01	0.00	0.00
2	0.06	0.00	0.00	0.00	---	0.00	0.14	0.00	0.50	0.14	0.00	0.00
3	0.24	0.61	0.00	0.00	---	0.00	0.00	0.00	0.06	0.23	0.00	0.00
4	0.00	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.31	0.00
6	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.02	0.24	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.03	0.07	0.00	1.74	0.16	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.56	0.34	0.00	0.33	0.00	0.25	0.00
9	0.00	0.00	0.93	0.00	0.01	0.00	0.00	0.00	0.24	0.00	0.75	0.00
10	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.68	0.06	0.00	0.04	0.00
11	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
12	0.00	0.75	0.00	0.00	0.00	0.00	0.61	0.09	0.00	0.03	0.00	0.00
13	0.12	0.00	0.00	0.05	0.04	0.00	0.61	0.01	0.11	0.04	0.64	0.00
14	0.00	0.00	0.00	1.23	0.14	0.20	0.12	0.06	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.03	0.74	0.00	0.00	0.00	0.01	0.00	0.51
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00
19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00
20	0.00	0.03	0.00	0.00	0.21	0.00	0.00	0.52	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.03	0.00	0.29	0.20	0.00	0.00	0.01	0.00	0.00
23	0.00	0.25	0.59	0.00	0.00	0.51	0.01	0.03	0.00	0.00	0.00	0.00
24	0.10	0.36	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.02	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.05
27	0.02	0.46	0.00	---	0.42	0.46	0.00	0.00	0.59	0.00	0.00	0.00
28	0.06	0.00	0.00	---	0.52	1.10	0.00	0.00	0.30	0.79	0.00	0.00
29	0.09	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.88	0.00	0.01
30	0.00	0.00	0.00	---	---	0.00	0.16	0.04	0.00	0.56	0.00	0.00
31	0.00	---	0.00	---	---	0.13	---	0.00	---	0.22	0.00	---
TOTAL	0.73	3.54	2.87	---	---	4.18	2.29	1.98	5.35	3.26	2.61	0.58



0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°23'23", long 80°55'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank at downstream side of bridge on Secondary Road 2074, 2.1 mi downstream of Torrence Creek, 2.8 mi south of Hicks Crossroads, 12.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.-26.3-mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1996 to current year. Streamflow data for November 1996 to September 1997 previously published in U.S. Geological Survey Open-File Report 98-67.

GAGE.--Water-stage recorder. Datum of gage is 644.87 ft, above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred on Sept. 13, 15, 22-24.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e11	6.2	14	13	14	58	26	37	21	14	15	3.5
2	e9.0	5.8	9.7	9.7	12	33	27	16	114	14	10	3.2
3	e56	21	8.9	9.5	75	27	21	14	22	14	7.1	3.3
4	e15	159	8.1	9.6	30	23	18	12	17	17	6.2	3.1
5	12	34	8.5	9.3	21	20	17	12	14	11	6.0	3.0
6	10	17	15	9.5	17	18	16	13	25	9.8	6.9	3.1
7	9.6	12	27	9.8	15	17	16	12	107	16	5.5	2.7
8	9.4	9.5	11	10	15	102	59	12	149	14	7.0	3.1
9	9.5	8.2	113	10	14	30	28	11	43	10	17	2.9
10	9.5	e7.1	513	11	14	22	17	19	73	11	38	2.8
11	9.1	e8.8	77	11	12	18	15	25	23	10	8.3	2.6
12	9.0	e34	34	11	12	17	58	13	18	e12	6.5	2.9
13	9.4	e20	24	11	11	15	111	14	16	e7.6	14	2.6
14	8.6	e14	19	253	17	20	232	14	15	7.3	21	2.7
15	8.0	e10	15	41	15	14	39	15	15	6.8	7.5	2.9
16	7.6	e9.4	13	24	16	102	27	12	13	5.5	5.7	4.9
17	6.7	9.0	13	19	17	71	23	10	11	5.3	5.0	5.6
18	8.0	8.5	12	16	12	33	20	10	11	6.2	e67	3.6
19	9.0	8.4	12	14	11	23	18	10	17	6.4	e8.6	3.1
20	9.2	8.1	11	14	12	21	17	28	13	5.7	e6.0	2.9
21	8.4	7.8	11	13	64	20	15	13	10	4.7	e4.7	2.9
22	8.3	7.3	11	13	32	22	18	10	9.6	4.6	e4.7	2.6
23	7.4	12	58	13	18	154	20	11	10	5.2	e4.4	2.8
24	9.9	29	21	12	129	37	15	9.5	10	4.5	5.9	2.9
25	8.1	25	15	13	34	26	14	8.6	10	4.1	5.0	2.8
26	8.3	11	13	12	22	21	15	9.4	11	3.9	4.6	2.7
27	7.9	16	11	11	20	19	13	9.2	68	3.8	4.6	3.2
28	11	67	11	11	295	500	13	8.3	88	24	4.8	2.9
29	8.4	14	11	11	---	76	13	8.3	21	97	4.1	3.1
30	7.6	11	11	38	---	34	16	9.3	14	41	3.9	3.3
31	6.3	---	10	20	---	31	---	8.6	---	63	3.9	---
TOTAL	327.2	610.1	1,141.2	682.4	976	1,624	957	414.2	988.6	459.4	318.9	93.7
MEAN	10.6	20.3	36.8	22.0	34.9	52.4	31.9	13.4	33.0	14.8	10.3	3.12
MAX	56	159	513	253	295	500	232	37	149	97	67	5.6
MIN	6.3	5.8	8.1	9.3	11	14	13	8.3	9.6	3.8	3.9	2.6
CFSM	0.40	0.77	1.40	0.84	1.33	1.99	1.21	0.51	1.25	0.56	0.39	0.12
IN.	0.46	0.86	1.61	0.97	1.38	2.30	1.35	0.59	1.40	0.65	0.45	0.13

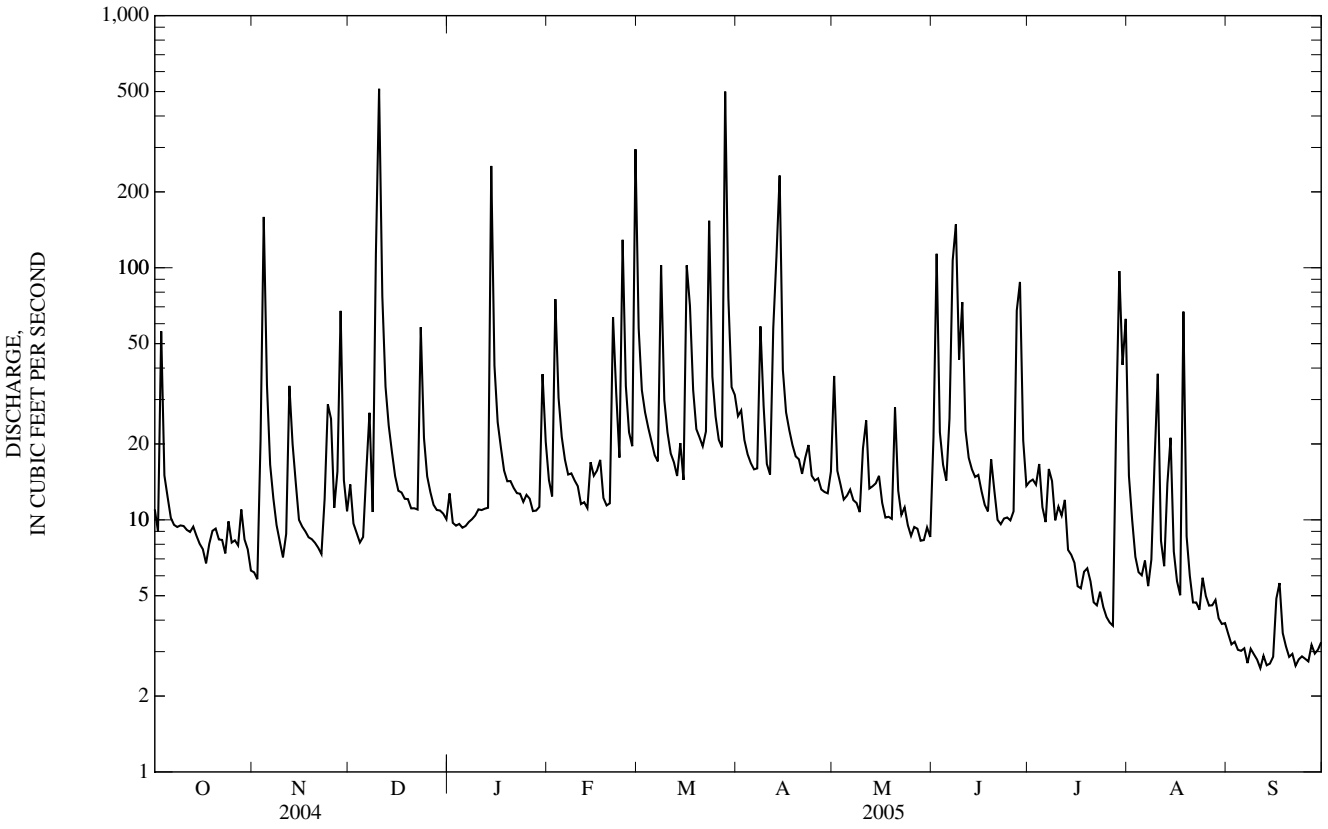
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	14.4	17.1	26.7	30.4	38.3	42.9	37.7	26.7	20.0	18.2	9.01	17.5
MAX	36.3	41.6	66.9	94.0	73.3	106	154	125	69.0	42.7	18.5	54.0
(WY)	(1998)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	3.63	3.21	6.40	10.2	15.4	12.1	8.61	8.96	5.20	4.68	2.50	3.12
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(1999)	(2002)	(1999)	(2000)	(1999)	(1999)	(2005)

0214266000 MCDOWELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	8,435.0		8,592.7			
ANNUAL MEAN	23.0		23.5		24.5	
HIGHEST ANNUAL MEAN					62.4	2003
LOWEST ANNUAL MEAN					10.6	1999
HIGHEST DAILY MEAN	513	Dec 10	513	Dec 10	1,270	Apr 10, 2003
LOWEST DAILY MEAN	4.0	Jul 10	2.6	Sep 11	0.59	Sep 25, 1999
ANNUAL SEVEN-DAY MINIMUM	5.0	Aug 23	2.8	Sep 9	0.99	Sep 20, 1999
MAXIMUM PEAK FLOW			840	Dec 10	2,690	May 22, 2003
MAXIMUM PEAK STAGE			10.77	Dec 10	13.55	May 22, 2003
INSTANTANEOUS LOW FLOW			2.0*	Sep 11	0.29	Sep 23, 1999
ANNUAL RUNOFF (CFSM)	0.876		0.895		0.932	
ANNUAL RUNOFF (INCHES)	11.93		12.15		12.66	
10 PERCENT EXCEEDS	40		38		43	
50 PERCENT EXCEEDS	11		12		9.9	
90 PERCENT EXCEEDS	6.3		4.6		3.4	

* See REMARKS.
e Estimated.



0214266000 MCDOWELL CREEK NEAR CHARLOTTE—Continued

PRECIPITATION RECORDS

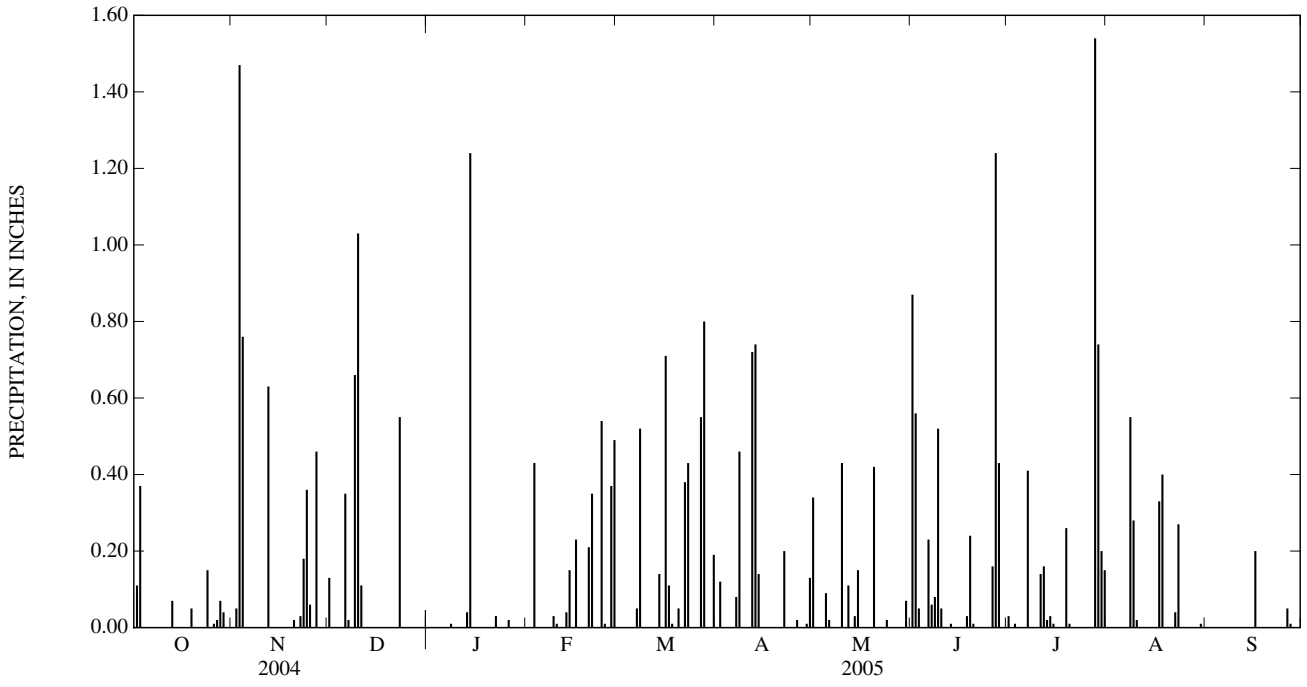
PERIOD OF RECORD.-- November 1996 to current year. Records for period November 1996 to September 1998 published in USGS OFR 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.34	0.87	0.03	0.00	0.00
2	0.11	0.05	0.00	0.00	0.00	0.00	0.12	0.00	0.56	0.00	0.00	0.00
3	0.37	1.47	0.00	0.00	0.43	0.00	0.00	0.00	0.05	0.01	0.00	0.00
4	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.02	0.23	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.05	0.08	0.00	0.06	0.41	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.52	0.46	0.00	0.08	0.00	0.55	0.00
9	0.00	0.00	0.66	0.00	0.03	0.00	0.00	0.00	0.52	0.00	0.28	0.00
10	0.00	0.00	1.03	0.00	0.01	0.00	0.00	0.43	0.05	0.00	0.02	0.00
11	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
12	0.00	0.63	0.00	0.00	0.00	0.00	0.72	0.11	0.00	0.16	0.00	0.00
13	0.07	0.00	0.00	0.04	0.04	0.00	0.74	0.00	0.01	0.02	0.00	0.00
14	0.00	0.00	0.00	1.24	0.15	0.14	0.14	0.03	0.00	0.03	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.23	0.71	0.00	0.00	0.00	0.00	0.00	0.20
17	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.33	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.40	0.00
19	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.26	0.00	0.00
20	0.00	0.02	0.00	0.00	0.21	0.05	0.00	0.42	0.01	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.03	0.00	0.38	0.20	0.00	0.00	0.00	0.04	0.00
23	0.00	0.18	0.55	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.27	0.00
24	0.15	0.36	0.00	0.00	0.54	0.00	0.00	0.02	0.00	0.00	0.00	0.00
25	0.00	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.16	0.00	0.00	0.05
27	0.02	0.46	0.00	0.00	0.37	0.55	0.00	0.00	1.24	0.00	0.00	0.01
28	0.07	0.00	0.00	0.00	0.49	0.80	0.00	0.00	0.43	1.54	0.00	0.00
29	0.04	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.74	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.13	0.07	0.00	0.20	0.01	0.00
31	0.00	---	0.00	0.00	---	0.19	---	0.00	---	0.15	0.00	---
TOTAL	0.89	4.02	2.85	---	2.86	3.94	2.62	1.68	4.54	3.71	1.90	0.26



0214266075 CRN25

LOCATION.--Lat 35°21'55", long 80°53'11", Mecklenburg County, Hydrologic Unit 03050101, Gar Creek at McCoy Road near Oakdale, NC.

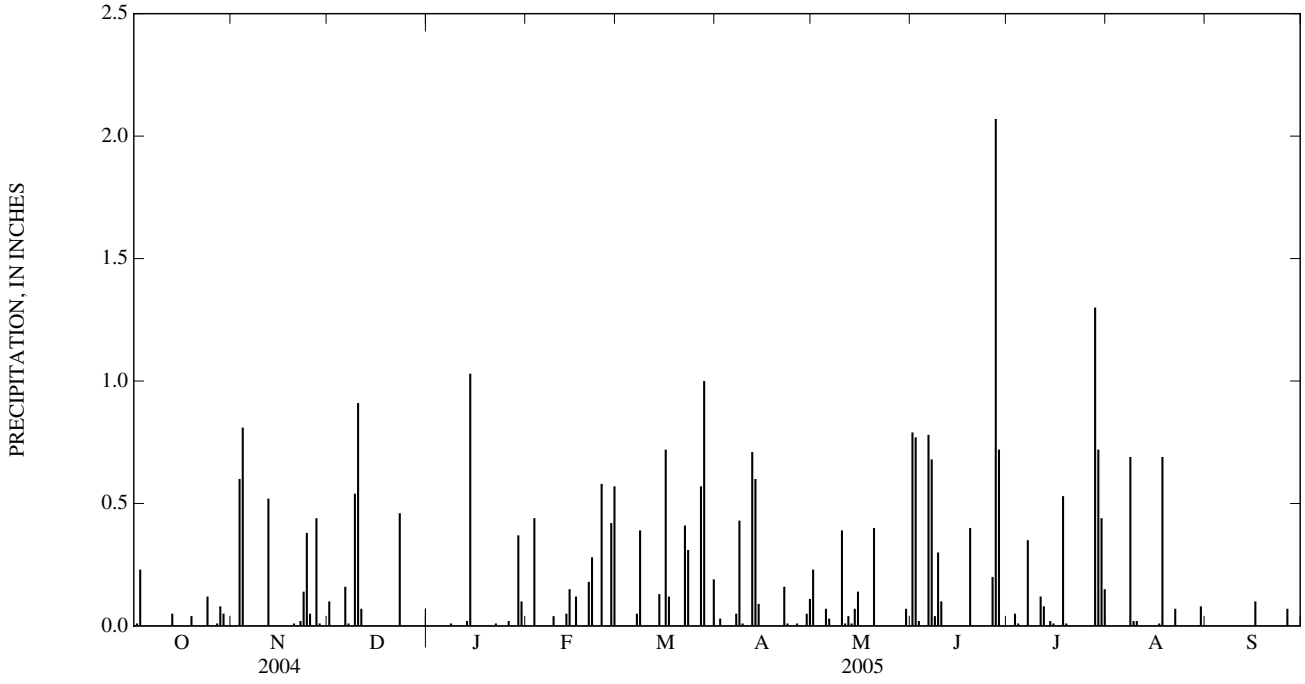
PERIOD OF RECORD.--April 1994 to current year. Records for period April 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Heated tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.23	0.79	0.00	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.77	0.00	0.00	0.00
3	0.23	0.60	0.00	0.00	0.44	0.00	0.00	0.00	0.02	0.05	0.00	0.00
4	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.03	0.78	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.05	0.05	0.00	0.68	0.35	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.39	0.43	0.00	0.04	0.00	0.69	0.00
9	0.00	0.00	0.54	0.00	0.04	0.00	0.01	0.00	0.30	0.00	0.02	0.00
10	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.39	0.10	0.00	0.02	0.00
11	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.01	0.00	0.12	0.00	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	0.71	0.04	0.00	0.08	0.00	0.00
13	0.05	0.00	0.00	0.02	0.05	0.00	0.60	0.01	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	1.03	0.15	0.13	0.09	0.07	0.00	0.02	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.12	0.72	0.00	0.00	0.00	0.00	0.00	0.10
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.69	0.00
19	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.01	0.00	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.40	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.41	0.16	0.00	0.00	0.00	0.07	0.00
23	0.00	0.14	0.46	0.00	0.00	0.31	0.01	0.00	0.00	0.00	0.00	0.00
24	0.12	0.38	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00	0.20	0.00	0.00	0.07
27	0.01	0.44	0.00	0.00	0.42	0.57	0.00	0.00	2.07	0.00	0.00	0.00
28	0.08	0.01	0.00	0.00	0.57	1.00	0.00	0.00	0.72	1.30	0.00	0.00
29	0.05	0.00	0.00	0.37	---	0.00	0.05	0.00	0.00	0.72	0.00	0.00
30	0.00	0.00	0.00	0.10	---	0.00	0.11	0.07	0.00	0.44	0.08	0.00
31	0.00	---	0.00	0.00	---	0.19	---	0.00	---	0.15	0.00	---
TOTAL	0.59	2.98	2.25	1.56	2.83	3.89	2.26	1.46	6.87	3.79	1.58	0.17



0214266080 GAR CREEK NEAR CROFT, NC

LOCATION.--Lat 35°21'41", long 80°53'51", Mecklenburg County, Hydrologic Unit 03050101, mounted on stand-alone enclosure at Secondary Road 2074, and 4.3 mi west of Croft.

DRAINAGE AREA.--3.55 mi^2.

PERIOD OF RECORD.--October 2002 to September 2005.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 658.61 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor for 2003-2004 water years. Records fair for 2005 water year, except those for estimated daily discharges which are poor. Peak discharge not determined for current water year and period of record. Minimum discharge for 2003 water year and period of record also occurred Oct. 2-9, 2002. Minimum discharge for 2004 water year also occurred July 25-27, Aug. 9-11, 2004. Minimum discharge for current water year also occurred Sept. 23-25, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

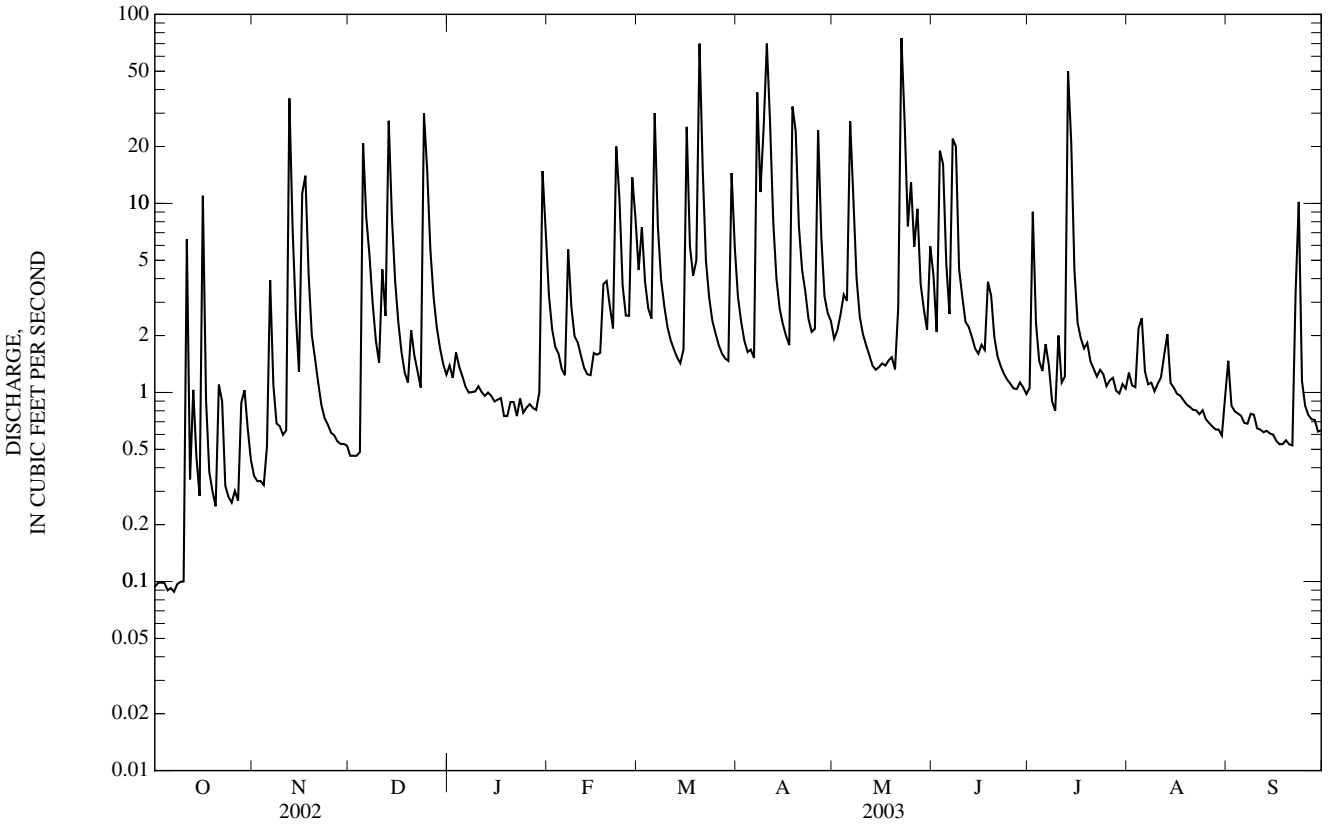
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.09	0.36	0.46	1.4	3.3	4.5	3.2	1.9	4.2	1.1	1.3	1.5
2	0.10	0.34	0.46	1.2	2.2	7.5	2.4	2.1	2.1	9.0	1.1	0.85
3	0.10	0.34	0.46	1.6	1.7	3.8	1.9	2.6	e19	2.3	1.1	0.80
4	0.10	0.32	0.48	1.4	1.6	2.8	1.6	3.3	16	1.5	2.2	0.77
5	0.09	0.52	21	1.2	1.3	2.5	1.7	3.1	e4.8	e1.3	2.5	0.75
6	0.09	3.9	8.4	1.1	1.2	e30	1.5	27	e2.6	e1.8	1.3	0.69
7	0.09	1.1	5.3	1.00	5.7	7.5	39	11	e22	e1.4	1.1	0.68
8	0.10	0.69	2.9	1.0	2.8	4.0	11	4.0	e20	e0.90	1.1	0.77
9	0.10	0.66	1.9	1.0	2.0	2.9	e25	2.5	e4.5	e0.80	1.0	0.76
10	0.10	0.60	1.4	1.1	1.8	2.2	e70	2.0	3.2	e2.0	1.1	0.65
11	6.5	0.63	4.5	1.0	1.6	1.9	27	1.8	2.4	1.1	1.2	0.64
12	0.35	36	2.5	0.96	1.3	1.7	8.0	1.6	2.2	1.2	1.6	0.62
13	1.0	7.4	27	1.00	1.2	1.5	4.0	1.4	2.0	e50	2.0	0.63
14	0.45	2.6	8.4	0.96	1.2	1.4	2.8	1.3	1.7	21	1.1	0.61
15	0.28	1.3	e3.9	0.90	1.6	1.7	2.3	1.4	1.6	4.4	1.1	0.60
16	11	11	2.3	0.92	1.6	25	2.0	1.4	1.8	2.3	0.98	0.55
17	0.90	14	1.6	0.93	1.6	5.9	1.8	1.4	1.7	1.9	0.96	0.53
18	0.38	4.2	1.3	e0.75	3.7	4.1	33	1.5	3.8	1.7	0.91	0.53
19	e0.30	2.0	1.1	e0.75	3.9	e5.0	24	1.5	3.3	1.8	0.86	0.56
20	e0.25	1.5	2.1	e0.89	2.9	e70	7.6	1.3	2.0	1.5	0.84	0.53
21	e1.1	1.1	1.6	e0.89	2.2	e15	4.5	2.8	1.6	1.3	0.81	0.53
22	e0.90	0.86	1.3	e0.75	e20	5.0	3.4	e75	1.4	1.2	0.80	3.3
23	0.32	0.73	1.1	0.93	11	3.2	2.4	27	1.3	1.3	0.77	10
24	0.28	0.68	e30	0.78	3.7	2.4	2.1	7.6	1.2	1.2	0.81	1.2
25	0.26	0.61	e15	0.83	2.6	2.1	2.2	13	1.1	1.1	0.72	0.85
26	0.30	0.59	5.7	0.87	2.5	1.8	24	5.9	1.0	1.2	0.69	0.76
27	0.27	0.55	3.2	0.83	14	1.6	6.7	9.4	1.0	1.2	0.66	0.72
28	0.88	0.53	2.2	0.81	8.4	1.5	3.2	3.8	1.1	1.0	0.64	0.72
29	1.0	0.53	1.7	1.00	---	1.5	2.6	2.8	1.1	0.99	0.64	0.62
30	0.64	0.52	1.4	15	---	14	2.4	2.1	0.98	1.1	0.59	0.63
31	0.44	---	1.2	7.1	---	5.8	---	5.9	---	1.0	0.94	---
TOTAL	28.76	96.16	161.86	50.85	108.6	239.8	323.3	229.4	132.68	121.59	33.42	33.35
MEAN	0.93	3.21	5.22	1.64	3.88	7.74	10.8	7.40	4.42	3.92	1.08	1.11
MAX	11	36	30	15	20	70	70	75	22	50	2.5	10
MIN	0.09	0.32	0.46	0.75	1.2	1.4	1.5	1.3	0.98	0.80	0.59	0.53
CFSM	0.26	0.90	1.47	0.46	1.09	2.18	3.04	2.08	1.25	1.10	0.30	0.31
IN.	0.30	1.01	1.70	0.53	1.14	2.51	3.39	2.40	1.39	1.27	0.35	0.35

SUMMARY STATISTICS FOR 2003 WATER YEAR

ANNUAL TOTAL	1,559.77	
ANNUAL MEAN	4.27	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	e75	May 22
LOWEST DAILY MEAN	0.09	Oct 1
ANNUAL SEVEN-DAY MINIMUM	0.09	Oct 1
MAXIMUM PEAK FLOW	NOT DETERMINED*	
MAXIMUM PEAK STAGE	9.84	Jul 13
INSTANTANEOUS LOW FLOW	0.08*	Oct 1
ANNUAL RUNOFF (CFSM)	1.20	
ANNUAL RUNOFF (INCHES)	16.34	
10 PERCENT EXCEEDS	10	
50 PERCENT EXCEEDS	1.5	
90 PERCENT EXCEEDS	0.53	

* See REMARKS.
e Estimated.

0214266080 GAR CREEK NEAR CROFT, NC—Continued



0214266080 GAR CREEK NEAR CROFT, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	1.3	1.4	0.80	0.83	e4.7	1.8	0.94	0.42	0.30	0.16	0.28
2	0.65	1.3	1.4	0.80	0.81	4.3	1.0	0.91	0.36	0.29	0.26	0.16
3	0.62	1.3	1.3	0.80	2.9	2.4	0.86	0.91	0.33	0.29	0.28	0.14
4	e0.61	1.4	1.4	0.84	1.6	1.6	0.77	0.81	0.36	0.28	0.16	0.13
5	e0.59	1.8	1.6	0.92	1.2	1.3	0.70	0.74	0.37	0.28	0.16	0.13
6	e0.57	1.8	1.5	0.91	16	1.2	0.68	0.69	0.35	0.25	0.14	0.16
7	e0.59	1.6	1.4	0.79	9.6	1.0	0.69	0.67	0.41	0.23	0.12	e4.0
8	0.81	e1.5	e1.4	0.79	3.1	0.99	0.70	0.65	0.42	0.22	0.12	e16
9	0.90	e1.4	e1.3	0.88	2.0	1.0	0.65	0.66	0.40	0.20	0.12	3.5
10	0.79	e1.3	e3.5	0.83	1.6	0.97	0.61	0.71	0.37	0.19	0.11	1.2
11	1.0	e1.3	2.0	0.79	1.4	0.91	0.62	0.59	0.34	0.23	e0.11	0.85
12	0.85	e1.5	1.2	0.81	4.6	0.90	1.0	0.59	0.29	0.21	e3.0	0.68
13	0.79	1.5	1.3	0.85	3.2	0.83	7.0	0.59	0.32	0.21	0.57	0.60
14	0.95	1.4	6.8	0.79	2.1	0.79	3.3	0.58	4.0	0.20	0.61	0.57
15	1.1	1.5	2.5	0.81	2.2	0.87	1.9	0.56	1.3	0.18	0.33	0.53
16	0.93	1.5	1.4	0.79	2.4	0.96	1.4	0.51	0.64	0.17	0.25	0.53
17	0.99	1.5	1.8	0.79	1.8	0.98	1.2	0.56	0.44	1.2	0.20	2.5
18	1.0	1.5	1.4	0.96	1.6	1.0	1.1	0.57	0.38	1.8	0.19	1.6
19	1.0	2.3	1.2	0.84	1.5	0.93	1.0	0.52	e0.30	0.19	0.17	0.74
20	1.0	1.7	1.1	0.79	1.4	0.83	0.97	0.50	e0.30	0.16	0.16	0.61
21	1.1	1.5	0.98	0.79	1.3	0.88	0.90	0.47	e4.0	0.13	0.17	0.55
22	1.1	1.5	1.0	0.79	1.3	0.79	0.86	0.44	e1.9	0.13	0.18	0.54
23	1.0	1.4	1.0	0.79	1.2	0.78	e0.78	0.66	0.46	0.13	0.16	0.52
24	1.0	1.5	0.98	0.79	1.3	0.76	e0.80	0.60	0.46	0.11	0.14	0.49
25	1.0	1.5	0.90	0.80	1.1	0.72	e0.70	0.44	6.1	0.10	0.14	0.47
26	1.1	1.5	0.89	0.81	1.4	0.71	e1.0	0.42	5.4	0.10	0.12	0.46
27	1.7	1.4	0.89	0.81	1.6	0.72	0.86	0.41	0.79	1.8	0.12	e3.0
28	1.4	1.5	0.85	0.82	2.2	0.73	0.76	0.37	0.47	0.44	0.12	e25
29	1.8	1.4	0.87	0.89	5.1	0.70	0.72	0.37	0.35	0.84	0.14	4.7
30	1.3	1.4	0.86	0.99	---	0.77	0.73	0.36	0.31	0.42	0.17	1.5
31	1.3	---	0.79	0.92	---	1.1	---	0.56	---	0.19	0.92	---
TOTAL	30.22	45.0	46.91	25.78	78.34	37.12	36.06	18.36	32.34	11.47	9.60	72.14
MEAN	0.97	1.50	1.51	0.83	2.70	1.20	1.20	0.59	1.08	0.37	0.31	2.40
MAX	1.8	2.3	6.8	0.99	16	4.7	7.0	0.94	6.1	1.8	3.0	25
MIN	0.57	1.3	0.79	0.79	0.81	0.70	0.61	0.36	0.29	0.10	0.11	0.13
CFSM	0.27	0.42	0.43	0.23	0.76	0.34	0.34	0.17	0.30	0.10	0.09	0.68
IN.	0.32	0.47	0.49	0.27	0.82	0.39	0.38	0.19	0.34	0.12	0.10	0.76

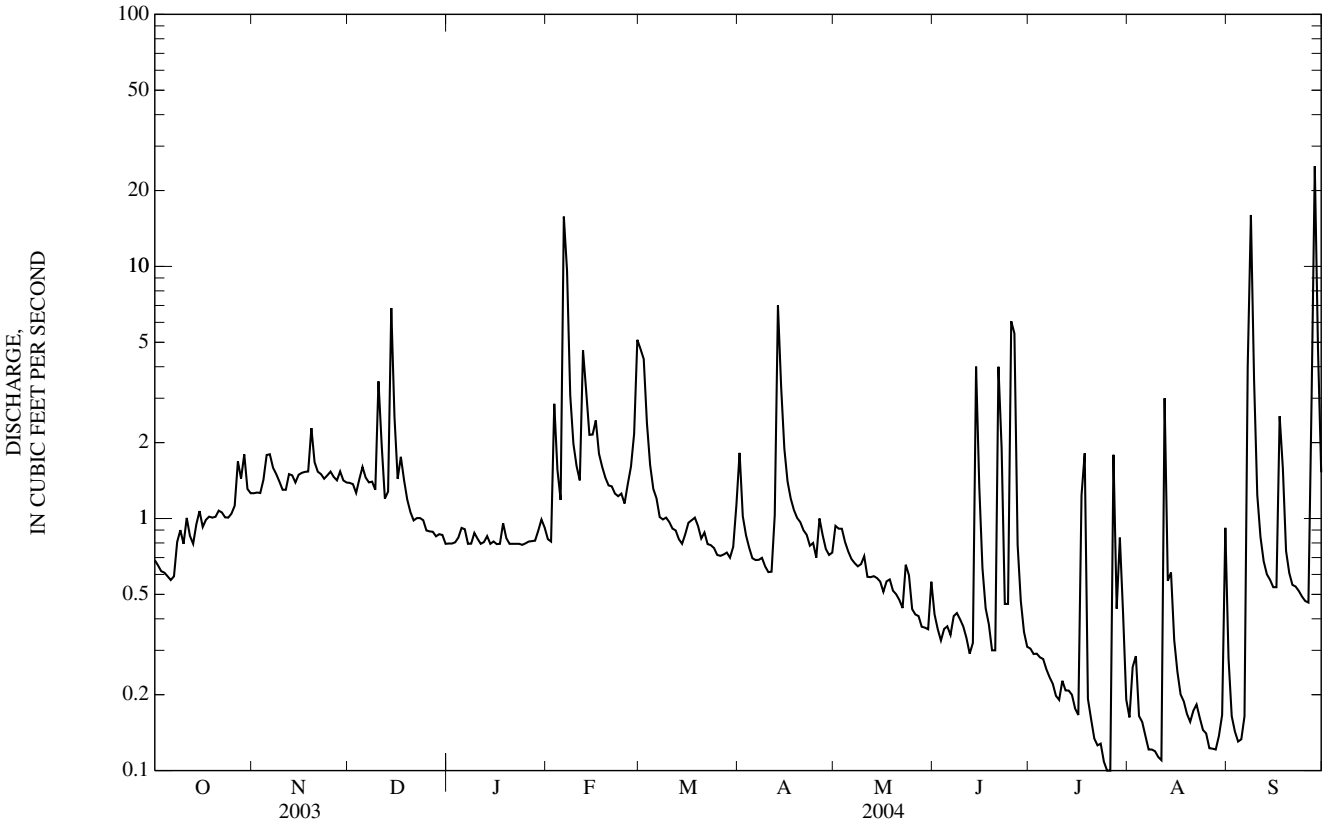
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2004, BY WATER YEAR (WY)

MEAN	0.95	2.35	3.37	1.24	3.28	4.47	5.99	4.00	2.75	2.15	0.69	1.76
MAX	0.97	3.21	5.22	1.64	3.88	7.74	10.8	7.40	4.42	3.92	1.08	2.40
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.93	1.50	1.51	0.83	2.70	1.20	1.20	0.59	1.08	0.37	0.31	1.11
(WY)	(2003)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2003)

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2002 - 2004	
ANNUAL TOTAL	1,395.12		443.34			
ANNUAL MEAN	3.82		1.21		2.74	
HIGHEST ANNUAL MEAN					4.27	2003
LOWEST ANNUAL MEAN					1.21	2004
HIGHEST DAILY MEAN	75	May 22	25	Sep 28	75	May 22, 2003
LOWEST DAILY MEAN	0.53	Sep 17	0.10	Jul 25	0.09	Oct 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.55	Sep 15	0.12	Jul 20	0.09	Oct 1, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED*		NOT DETERMINED*	
MAXIMUM PEAK STAGE			5.22	Sep 28	9.84	Jul 13, 2003
INSTANTANEOUS LOW FLOW			0.10*	Jul 24	0.08*	Oct 1, 2002
ANNUAL RUNOFF (CFSM)	1.08		0.341		0.772	
ANNUAL RUNOFF (INCHES)	14.62		4.65		10.49	
10 PERCENT EXCEEDS	7.5		1.8		4.6	
50 PERCENT EXCEEDS	1.4		0.82		1.0	
90 PERCENT EXCEEDS	0.76		0.19		0.30	

* See REMARKS.
e Estimated.

0214266080 GAR CREEK NEAR CROFT, NC—Continued



0214266080 GAR CREEK NEAR CROFT, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.96	0.73	1.0	0.62	1.1	6.3	3.0	1.3	0.86	0.76	0.58	0.14
2	0.77	0.88	0.90	0.61	1.0	3.1	2.7	1.0	2.8	0.68	0.47	0.14
3	1.0	1.6	0.83	0.65	4.0	2.3	1.9	0.93	1.2	0.61	0.42	0.13
4	0.85	5.3	0.79	0.79	2.9	1.9	1.5	0.90	0.91	0.62	0.39	0.12
5	0.65	1.6	0.71	0.63	1.7	1.7	1.4	0.89	0.76	0.59	0.35	0.13
6	0.59	0.82	0.73	0.63	1.4	1.5	1.3	0.93	1.4	0.54	0.34	0.14
7	0.54	0.68	0.88	0.70	1.3	1.5	1.3	0.88	3.7	0.63	0.33	0.16
8	0.53	0.57	0.78	0.69	1.3	3.7	3.4	0.82	2.6	0.57	0.51	0.16
9	0.53	0.53	2.6	0.63	1.2	2.3	2.7	0.80	1.2	0.50	0.56	0.16
10	0.49	0.53	35	0.65	1.2	1.8	1.6	0.86	2.1	0.45	0.40	0.16
11	0.46	0.52	5.6	0.65	1.0	1.7	1.4	1.0	1.2	0.50	0.37	0.15
12	0.46	0.96	2.5	0.63	1.0	1.5	4.2	0.82	0.86	0.58	0.34	0.15
13	0.50	1.0	1.7	0.66	1.1	1.4	10	0.82	0.77	0.46	0.34	0.14
14	0.46	0.64	1.3	11	1.2	1.4	21	0.88	0.70	0.45	0.34	0.14
15	0.46	0.61	0.95	2.7	1.2	1.3	4.3	0.92	0.61	0.45	0.31	0.14
16	0.48	0.62	0.89	1.6	1.4	5.7	2.6	0.85	0.59	0.41	0.29	0.15
17	0.52	0.59	0.83	1.2	1.9	8.2	2.1	0.78	0.49	0.40	0.26	0.16
18	0.51	0.54	0.79	1.0	1.3	3.7	1.6	0.75	0.50	0.85	0.62	0.15
19	0.60	0.54	0.78	1.0	1.2	2.4	1.6	0.73	0.56	0.50	0.37	0.14
20	0.57	0.53	0.68	0.99	1.2	2.0	1.5	1.00	0.57	0.39	0.31	0.14
21	0.55	0.53	0.69	0.93	3.0	1.8	1.4	0.84	0.51	0.36	0.28	0.13
22	0.58	0.53	0.66	0.91	2.8	1.9	1.4	0.74	0.49	0.34	0.26	0.12
23	0.47	0.59	1.9	0.84	1.8	11	1.4	0.73	0.45	0.32	0.28	0.13
24	0.58	0.92	1.2	0.78	9.0	4.1	1.2	0.68	0.42	0.29	0.29	0.12
25	0.52	1.4	0.93	0.85	3.6	2.6	1.2	0.66	0.41	0.29	0.25	0.12
26	0.46	0.80	0.84	0.90	2.2	2.1	1.2	0.65	0.46	0.28	0.24	0.14
27	0.50	0.90	0.74	0.83	1.8	2.0	1.1	0.61	8.8	0.25	0.23	0.16
28	0.59	3.9	0.70	0.79	28	e30	1.1	0.61	8.2	0.69	0.23	0.14
29	0.57	1.4	0.70	0.86	---	8.5	1.1	0.60	1.9	0.88	0.21	0.14
30	0.62	1.0	0.70	1.5	---	3.5	1.2	0.64	0.99	0.93	0.22	0.13
31	0.70	---	0.65	1.5	---	3.2	---	0.63	---	0.95	0.17	---
TOTAL	18.07	31.76	69.95	38.72	81.8	126.1	83.4	25.25	47.01	16.52	10.56	4.23
MEAN	0.58	1.06	2.26	1.25	2.92	4.07	2.78	0.81	1.57	0.53	0.34	0.14
MAX	1.0	5.3	35	11	28	30	21	1.3	8.8	0.95	0.62	0.16
MIN	0.46	0.52	0.65	0.61	1.0	1.3	1.1	0.60	0.41	0.25	0.17	0.12
CFSM	0.16	0.30	0.64	0.35	0.82	1.15	0.78	0.23	0.44	0.15	0.10	0.04
IN.	0.19	0.33	0.73	0.41	0.86	1.32	0.87	0.26	0.49	0.17	0.11	0.04

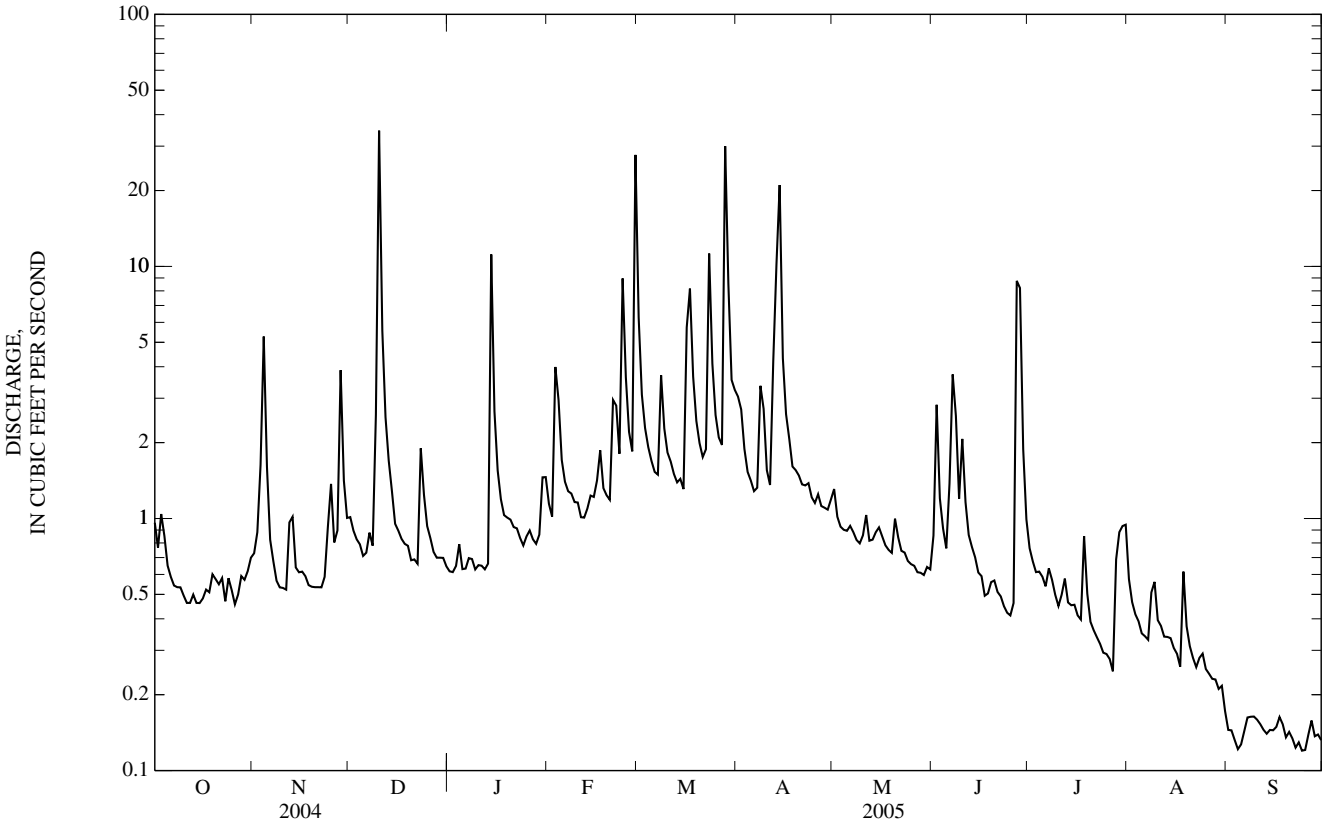
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	0.83	1.92	3.00	1.24	3.16	4.33	4.92	2.94	2.36	1.61	0.58	1.22
MAX	0.97	3.21	5.22	1.64	3.88	7.74	10.8	7.40	4.42	3.92	1.08	2.40
(WY)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.58	1.06	1.51	0.83	2.70	1.20	1.20	0.59	1.08	0.37	0.31	0.14
(WY)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	440.99		553.37			
ANNUAL MEAN	1.20		1.52		2.33	
HIGHEST ANNUAL MEAN					4.27	2003
LOWEST ANNUAL MEAN					1.21	2004
HIGHEST DAILY MEAN	35	Dec 10	35	Dec 10	75	May 22, 2003
LOWEST DAILY MEAN	0.10	Jul 25	0.12	Sep 4	0.09	Oct 1, 2002
ANNUAL SEVEN-DAY MINIMUM	0.12	Jul 20	0.13	Sep 19	0.09	Oct 1, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED*		NOT DETERMINED*	
MAXIMUM PEAK STAGE			4.03	Mar 28	9.84	Jul 13, 2003
INSTANTANEOUS LOW FLOW			0.10*	Sep 22	0.08*	Oct 1, 2002
ANNUAL RUNOFF (CFSM)	0.339		0.427		0.657	
ANNUAL RUNOFF (INCHES)	4.62		5.80		8.93	
10 PERCENT EXCEEDS	1.9		2.7		3.9	
50 PERCENT EXCEEDS	0.72		0.78		0.93	
90 PERCENT EXCEEDS	0.19		0.25		0.28	

* See REMARKS.
e Estimated.

0214266080 GAR CREEK NEAR CROFT, NC—Continued



0214267600 CRN35

LOCATION.--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, Catawba River at Mountain Island Dam, Mount Holly, NC.

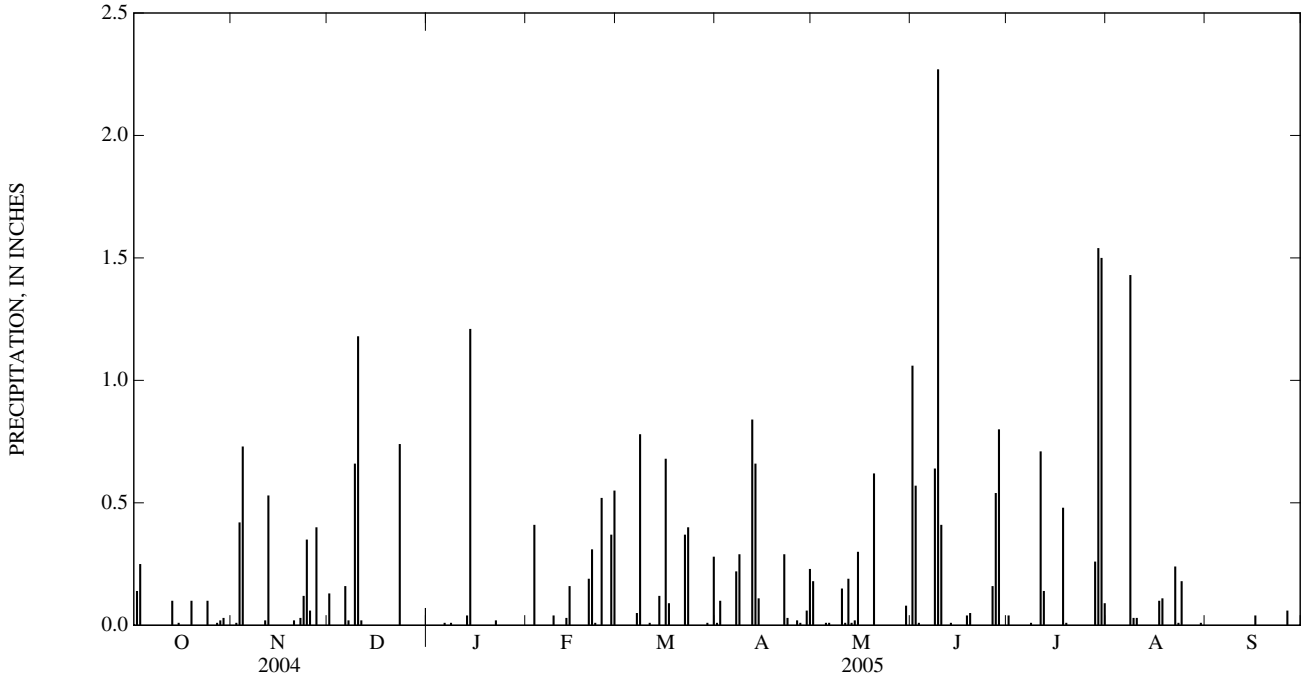
PERIOD OF RECORD.--January 1996 to current year. Records for period January 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.01	0.18	1.06	0.04	0.00	0.00
2	0.14	0.01	0.00	0.00	0.00	0.00	0.10	0.00	0.57	0.00	0.00	0.00
3	0.25	0.42	0.00	0.00	0.41	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
6	0.00	0.00	0.16	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.05	0.22	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.78	0.29	0.00	0.64	0.01	1.43	0.00
9	0.00	0.00	0.66	0.00	0.04	0.00	0.00	0.00	2.27	0.00	0.03	0.00
10	0.00	0.00	1.18	0.00	0.00	0.00	0.00	0.15	0.41	0.00	0.03	0.00
11	0.00	0.02	0.02	0.00	0.00	0.01	0.00	0.01	0.00	0.71	0.00	0.00
12	0.00	0.53	0.00	0.00	0.00	0.00	0.84	0.19	0.00	0.14	0.00	0.00
13	0.10	0.00	0.00	0.04	0.03	0.00	0.66	0.01	0.01	0.00	0.00	0.00
14	0.00	0.00	0.00	1.21	0.16	0.12	0.11	0.02	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.04
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.10	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.48	0.11	0.00
19	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00
20	0.00	0.02	0.00	0.00	0.19	0.00	0.00	0.62	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.02	0.01	0.37	0.29	0.00	0.00	0.00	0.24	0.00
23	0.00	0.12	0.74	0.00	0.00	0.40	0.03	0.00	0.00	0.00	0.01	0.00
24	0.10	0.35	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.18	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	---	0.02	0.00	0.16	0.00	0.00	0.06
27	0.01	0.40	0.00	0.00	0.37	---	0.01	0.00	0.54	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.55	---	0.00	0.00	0.80	0.26	0.00	0.00
29	0.03	0.00	0.00	---	---	0.01	0.06	0.00	0.00	1.54	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.23	0.08	0.00	1.50	0.01	0.00
31	0.00	---	0.00	0.00	---	0.28	---	0.00	---	0.09	0.00	---
TOTAL	0.76	2.69	2.91	---	2.59	---	2.87	1.58	6.56	4.78	2.14	0.10



0214269560 KILLIAN CREEK NEAR MARIPOSA, NC

LOCATION.--Lat 35°26'03", long 81°01'48", Lincoln County, Hydrologic Unit 03050101, on right bank, 1,000 ft upstream from Forney Creek, 1.5 mi northwest of Lowesville, 1.7 mi upstream from bridge on Secondary Road 1511, and 2.4 mi northeast of Mariposa.

DRAINAGE AREA.--36.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- October 1990 to June 1993, December 1994 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 642.20 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Station was established to study low-flow conditions for Duke Power Co., no structure exists near the site for measuring high-stage flow; therefore, a peak flow was not determined to coincide with the peak stage for the year. Missing values on the daily values table are days when the flow exceeded the rating. Minimum discharge for current water year also occurred Sept. 21, 22, 24-26. Minimum discharges may be affected by diversions by Duke Power. No flow also occurred Aug. 14, Sept. 10-13, 2002.

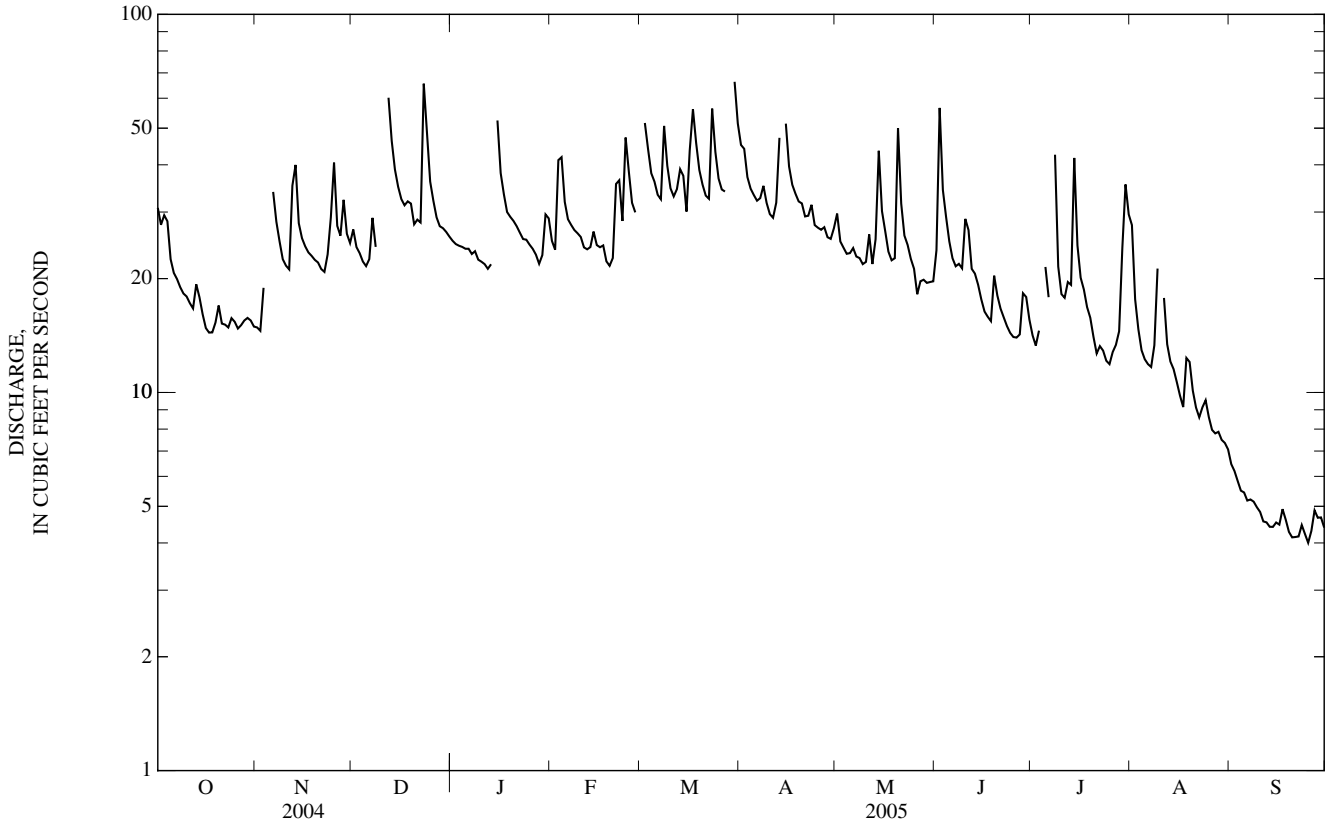
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	15	27	25	25	---	45	30	24	14	28	6.5
2	28	15	24	25	24	52	44	25	57	13	18	6.2
3	29	19	23	24	41	e44	37	24	34	15	15	5.8
4	28	---	22	24	42	e38	35	23	29	---	13	5.5
5	23	---	22	24	32	36	33	23	25	21	12	5.4
6	21	34	23	24	29	33	32	24	23	18	12	5.2
7	20	28	29	23	28	32	33	23	22	---	12	5.2
8	19	25	24	24	27	51	35	23	22	43	13	5.1
9	18	23	---	22	26	40	32	22	21	22	21	5.0
10	18	22	---	22	26	35	30	22	29	18	---	4.8
11	17	21	---	22	24	33	29	26	27	18	18	4.6
12	17	35	60	21	24	34	32	22	21	20	13	4.5
13	19	40	46	22	24	39	47	25	21	19	12	4.4
14	18	28	39	---	27	37	---	44	19	42	12	4.4
15	16	26	35	52	25	30	51	30	18	24	11	4.5
16	15	24	32	38	24	44	40	27	16	20	9.8	4.5
17	14	23	31	33	24	56	35	24	16	19	9.1	4.9
18	14	23	32	30	22	46	34	22	15	17	12	4.6
19	15	22	32	29	22	39	32	23	20	16	12	4.3
20	17	22	28	28	23	35	32	50	18	14	10	4.1
21	15	21	29	28	36	33	29	32	17	13	9.1	4.1
22	15	21	28	26	36	33	29	26	16	13	8.6	4.2
23	15	23	66	25	28	56	31	25	15	13	9.1	4.5
24	16	29	49	25	47	43	28	23	14	12	9.5	4.2
25	15	41	36	25	38	37	27	21	14	12	8.6	4.0
26	15	28	32	24	32	34	27	18	14	13	8.0	4.3
27	15	26	29	23	30	34	27	20	14	13	7.8	4.9
28	15	32	28	22	---	---	26	20	18	15	7.9	4.7
29	16	26	27	23	---	---	25	19	18	24	7.5	4.7
30	15	25	27	30	---	66	27	20	16	35	7.4	4.4
31	15	---	26	29	---	51	---	20	---	30	7.1	---

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005[@]	
LOWEST DAILY MEAN	7.0	Aug 11	4.0	Sep 25	0.00	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	7.9	Aug 5	4.2	Sep 19	0.03	Sep 7, 2002
MAXIMUM PEAK STAGE			11.62	Mar 28	15.25	Apr 29, 1997
INSTANTANEOUS LOW FLOW			4.0*	Sep 20	0.00*	Aug 13, 2002

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.

0214269560 KILLIAN CREEK NEAR MARIPOSA, NC—Continued



0214269560 KILLIAN CREEK NEAR MARIPOSA, NC—Continued

PRECIPITATION RECORDS

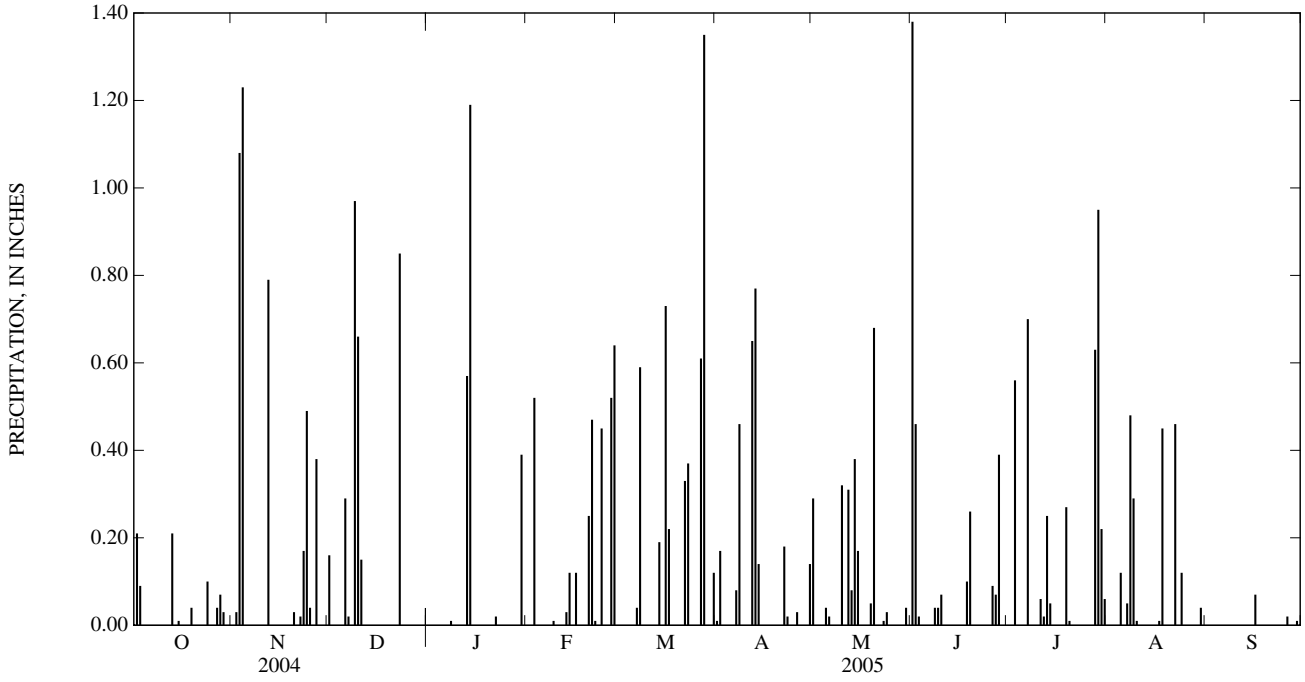
PERIOD OF RECORD.--June 2004 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.16	0.00	0.00	0.00	0.01	0.29	1.38	0.00	0.00	0.00
2	0.21	0.03	0.00	0.00	0.00	0.00	0.17	0.00	0.46	0.00	0.00	0.00
3	0.09	1.08	0.00	0.00	0.52	---	0.00	0.00	0.02	0.56	0.00	0.00
4	0.00	1.23	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.12	0.00
6	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.04	0.08	0.00	0.00	0.70	0.05	0.00
8	0.00	0.00	0.00	0.01	0.00	0.59	0.46	0.00	0.04	0.00	0.48	0.00
9	0.00	0.00	0.97	0.00	0.01	0.00	0.00	0.00	0.04	0.00	0.29	0.00
10	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.32	0.07	0.00	0.01	0.00
11	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
12	0.00	0.79	0.00	0.00	0.00	0.00	0.65	0.31	0.00	0.02	0.00	0.00
13	0.21	0.00	0.00	0.57	0.03	0.00	0.77	0.08	0.00	0.25	0.00	0.00
14	0.00	0.00	0.00	1.19	0.12	0.19	0.14	0.38	0.00	0.05	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.12	0.73	0.00	0.00	0.00	0.00	0.00	0.07
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.45	0.00
19	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.26	0.27	0.00	0.00
20	0.00	0.03	0.00	0.00	0.25	0.00	0.00	0.68	0.00	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.02	0.01	0.33	0.18	0.00	0.00	0.00	0.46	0.00
23	0.00	0.17	0.85	0.00	0.00	0.37	0.02	0.01	0.00	0.00	0.00	0.00
24	0.10	0.49	0.00	0.00	0.45	0.00	0.00	0.03	0.00	0.00	0.12	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.09	0.00	0.00	0.02
27	0.04	0.38	0.00	0.00	0.52	0.61	0.00	0.00	0.07	0.00	0.00	0.00
28	0.07	0.00	0.00	0.00	0.64	1.35	0.00	0.00	0.39	0.63	0.00	0.00
29	0.03	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.95	0.00	0.01
30	0.00	0.00	0.00	0.39	---	0.00	0.14	0.04	0.00	0.22	0.04	0.00
31	0.00	---	0.00	0.00	---	0.12	---	0.00	---	0.06	0.00	---
TOTAL	0.80	4.26	3.10	2.18	3.14	---	2.65	2.42	2.92	3.78	2.03	0.10



02142900 LONG CREEK NEAR PAW CREEK, NC

LOCATION.--Lat 35°19'43", long 80°54'35", Mecklenburg County, Hydrologic Unit 03050101, on right bank at upstream side of bridge on Secondary Road 2042, 600 ft downstream of McIntyre Creek, 1.2 mi upstream from Gutter Branch, and 3.6 mi north of Paw Creek.

DRAINAGE AREA.--16.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1965 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 647.69 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for period of record based on discharge measurement made Aug. 15, 2002, and may be lower.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.1	4.7	9.7	5.5	6.7	29	27	20	11	8.0	12	1.9
2	7.4	4.7	7.5	5.4	5.8	15	18	8.9	103	6.7	6.2	1.7
3	35	5.5	6.2	5.6	43	10	14	6.3	22	4.8	4.4	1.6
4	14	81	5.6	5.5	17	8.4	11	5.7	11	9.3	3.7	1.6
5	7.6	17	5.2	5.5	9.7	7.4	9.6	5.6	7.1	4.2	3.3	1.5
6	5.9	8.6	5.8	5.6	7.9	6.5	9.0	6.8	24	6.0	3.1	1.6
7	6.1	6.5	13	5.3	7.7	6.2	8.9	5.9	67	18	3.2	1.4
8	5.7	5.8	6.5	5.1	7.0	75	24	5.3	44	12	25	1.7
9	5.6	5.2	29	5.0	6.5	23	24	4.8	e180	4.9	27	1.5
10	5.9	5.0	256	6.3	6.4	12	10	8.5	139	3.7	8.2	1.5
11	5.1	5.1	26	5.3	5.4	8.9	8.9	16	31	18	5.2	1.4
12	4.8	18	15	5.1	5.2	7.6	63	6.0	14	18	3.5	1.6
13	6.4	13	11	4.9	5.0	6.7	94	5.0	9.4	9.7	4.0	1.2
14	5.1	5.9	8.9	135	10	11	128	5.1	7.3	4.6	16	1.2
15	4.2	5.0	7.8	16	9.0	8.1	25	7.3	5.8	3.5	7.9	1.2
16	3.7	5.0	7.7	9.9	8.3	54	15	6.1	4.6	3.1	3.3	1.1
17	3.6	4.6	7.6	7.7	12	58	12	4.5	3.9	2.8	2.6	1.2
18	3.8	4.5	7.0	6.3	6.0	25	11	4.2	3.5	3.3	5.8	1.1
19	3.9	4.4	6.5	5.9	5.1	14	9.4	4.0	6.8	4.0	3.3	1.1
20	4.4	4.4	5.7	6.2	5.4	10	8.9	18	6.1	2.4	2.7	1.0
21	5.2	4.6	5.9	5.9	28	8.6	8.0	8.8	3.8	2.2	2.4	1.0
22	5.7	4.4	5.9	5.5	15	11	7.7	4.7	3.4	6.7	2.2	0.83
23	5.2	6.9	33	5.0	8.7	87	12	4.2	3.1	4.0	3.5	0.72
24	7.4	35	14	4.6	46	29	7.7	3.9	2.7	2.3	6.0	0.73
25	6.0	24	8.9	5.0	15	15	6.7	3.4	2.9	1.8	2.7	0.75
26	5.0	9.2	7.3	5.1	8.9	11	6.2	3.7	16	1.7	2.2	0.80
27	5.0	20	6.7	4.6	7.7	9.4	6.2	3.7	204	1.6	3.5	0.84
28	6.9	48	5.9	4.1	183	445	6.0	3.6	170	e9.9	2.6	0.93
29	6.9	11	6.0	4.6	---	44	5.8	3.8	27	e83	2.0	0.75
30	5.9	8.4	5.9	23	---	23	8.4	3.9	12	42	2.0	0.62
31	5.1	---	5.7	12	---	28	---	4.2	---	49	2.6	---
TOTAL	211.6	385.4	552.9	336.5	501.4	1,106.8	605.4	201.9	1,145.4	351.2	182.1	36.07
MEAN	6.83	12.8	17.8	10.9	17.9	35.7	20.2	6.51	38.2	11.3	5.87	1.20
MAX	35	81	256	135	183	445	128	20	204	83	27	1.9
MIN	3.6	4.4	5.2	4.1	5.0	6.2	5.8	3.4	2.7	1.6	2.0	0.62
CFSM	0.42	0.78	1.09	0.66	1.09	2.18	1.23	0.40	2.33	0.69	0.36	0.07
IN.	0.48	0.87	1.25	0.76	1.14	2.51	1.37	0.46	2.60	0.80	0.41	0.08

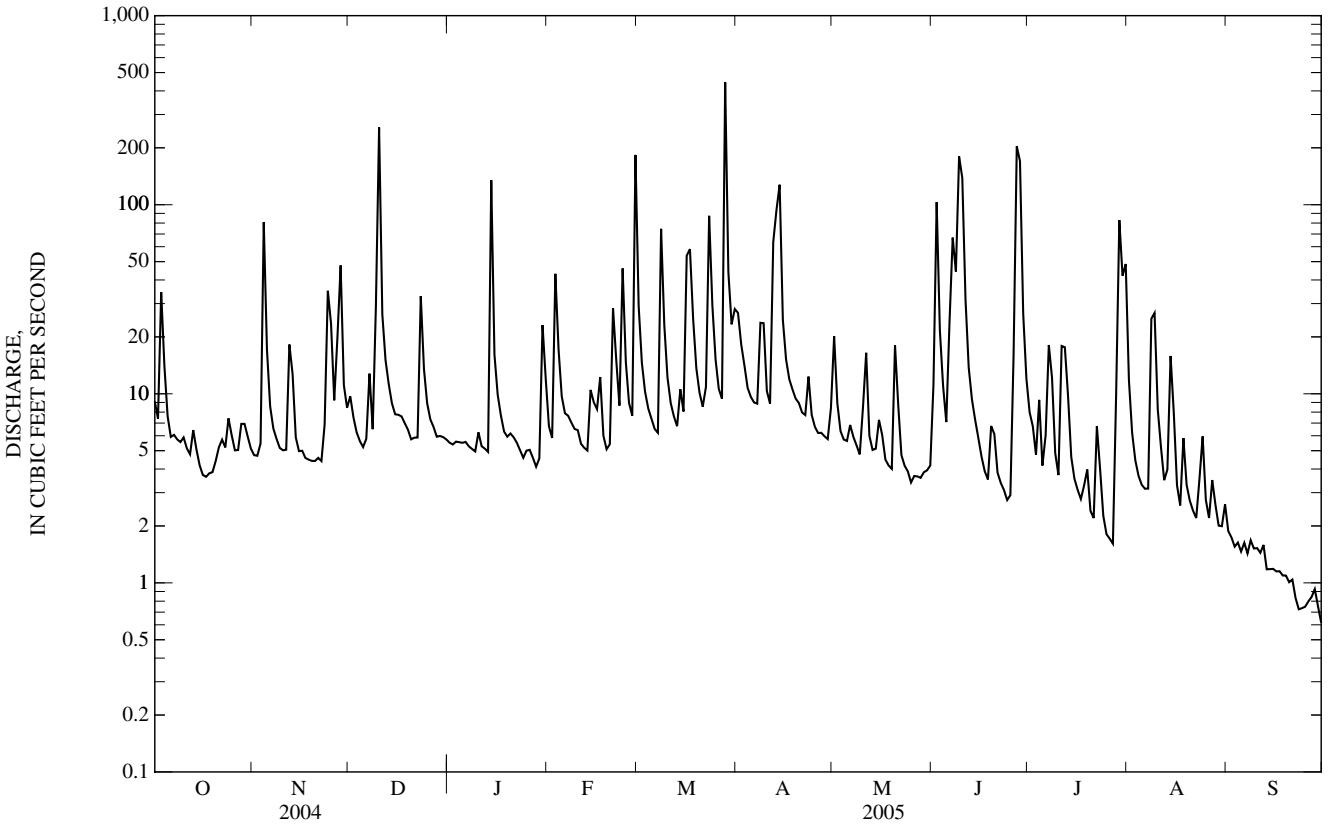
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)

MEAN	13.6	14.0	18.8	28.1	32.3	34.7	20.9	16.5	13.3	9.18	9.56	9.49
MAX	70.8	91.3	59.5	74.4	78.4	86.8	87.6	101	66.5	58.4	59.0	66.2
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(1982)	(1997)	(1967)	(2004)
MIN	1.16	1.39	2.53	4.04	6.42	8.31	4.38	3.60	1.68	1.08	1.07	1.20
(WY)	(2002)	(2002)	(1966)	(1981)	(2002)	(1999)	(1967)	(1981)	(1986)	(1986)	(2001)	(2005)

02142900 LONG CREEK NEAR PAW CREEK, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005	
ANNUAL TOTAL	6,389.0		5,616.67			
ANNUAL MEAN	17.5		15.4		18.4	
HIGHEST ANNUAL MEAN					40.8	2003
LOWEST ANNUAL MEAN					6.45	2002
HIGHEST DAILY MEAN	772	Sep 28	445	Mar 28	1,600	Oct 9, 1976
LOWEST DAILY MEAN	1.3	Jul 16	0.62	Sep 30	0.03	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	3.0	Jul 20	0.77	Sep 24	0.06	Aug 9, 2002
MAXIMUM PEAK FLOW			1,380	Mar 28	4,300	Jun 18, 1982
MAXIMUM PEAK STAGE			10.54	Mar 28	13.45	Jul 23, 1997
INSTANTANEOUS LOW FLOW			0.57	Sep 30	0.03*	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.06		0.938		1.12	
ANNUAL RUNOFF (INCHES)	14.49		12.74		15.25	
10 PERCENT EXCEEDS	33		27		30	
50 PERCENT EXCEEDS	5.8		6.1		6.5	
90 PERCENT EXCEEDS	3.0		2.2		1.8	

* See REMARKS.
e Estimated.



02142900 LONG CREEK NEAR PAW CREEK, NC—Continued

PRECIPITATION RECORDS

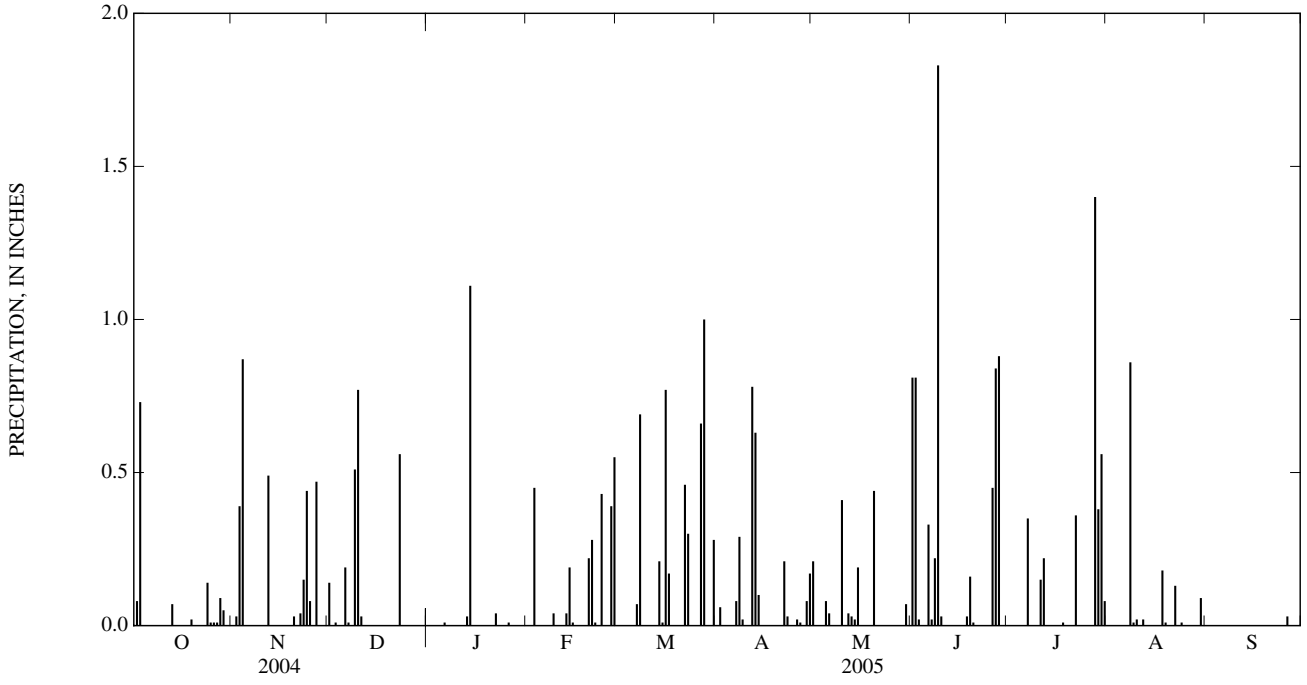
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.21	0.81	0.00	0.00	0.00
2	0.08	0.03	0.00	0.00	0.00	0.00	0.06	0.00	0.81	0.00	0.00	0.00
3	0.73	0.39	0.01	0.00	0.45	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.04	0.33	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.07	0.08	0.00	0.02	0.35	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.69	0.29	0.00	0.22	0.00	0.86	0.00
9	0.00	0.00	0.51	0.00	0.04	0.00	0.02	0.00	1.83	0.00	0.01	0.00
10	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.41	0.03	0.00	0.02	0.00
11	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00
12	0.00	0.49	0.00	0.00	0.00	0.00	0.78	0.04	0.00	0.22	0.02	0.00
13	0.07	0.00	0.00	0.03	0.04	0.00	0.63	0.03	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	1.11	0.19	0.21	0.10	0.02	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.19	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.00	---
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	---
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.01	0.18	---
19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01	---
20	0.00	0.03	0.00	0.00	0.22	0.00	0.00	0.44	0.01	0.00	0.00	---
21	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.04	0.01	0.46	0.21	0.00	0.00	0.36	0.13	0.00
23	0.00	0.15	0.56	0.00	0.00	0.30	0.03	0.00	0.00	0.00	0.00	0.00
24	0.14	0.44	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.01	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.45	0.00	0.00	0.03
27	0.01	0.47	0.00	0.00	0.39	0.66	0.01	0.00	0.84	0.00	0.00	0.00
28	0.09	0.00	0.00	0.00	0.55	1.00	0.00	0.00	0.88	1.40	0.00	0.00
29	0.05	0.00	0.00	---	---	0.00	0.08	0.00	0.00	0.38	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.17	0.07	0.00	0.56	0.09	0.00
31	0.00	---	0.00	0.00	---	0.28	---	0.00	---	0.08	0.00	---
TOTAL	1.21	2.99	2.22	---	2.61	4.62	2.48	1.53	6.44	3.51	1.33	---



02142914 GUM BRANCH NEAR THRIFT, NC

LOCATION.--Lat 35°17'58", long 80°56'47", Mecklenburg County, Hydrologic Unit 03050101, on left wingwall on downstream side of bridge on Secondary Road 1775, 0.6 mi upstream from mouth and 1.7 mi northwest of Thrift, NC.

DRAINAGE AREA.--4.90 mi^2.

PERIOD OF RECORD.--May 2004 to September 2005

GAGE.--Water-stage recorder crest-stage gage. Datum of gage is 630.77 ft, above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for 2004 and 2005 water years from rating curve extended above 350 ft^3/s. Minimum discharge for period of record and current water year also occurred on Sept. 30, 2005.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

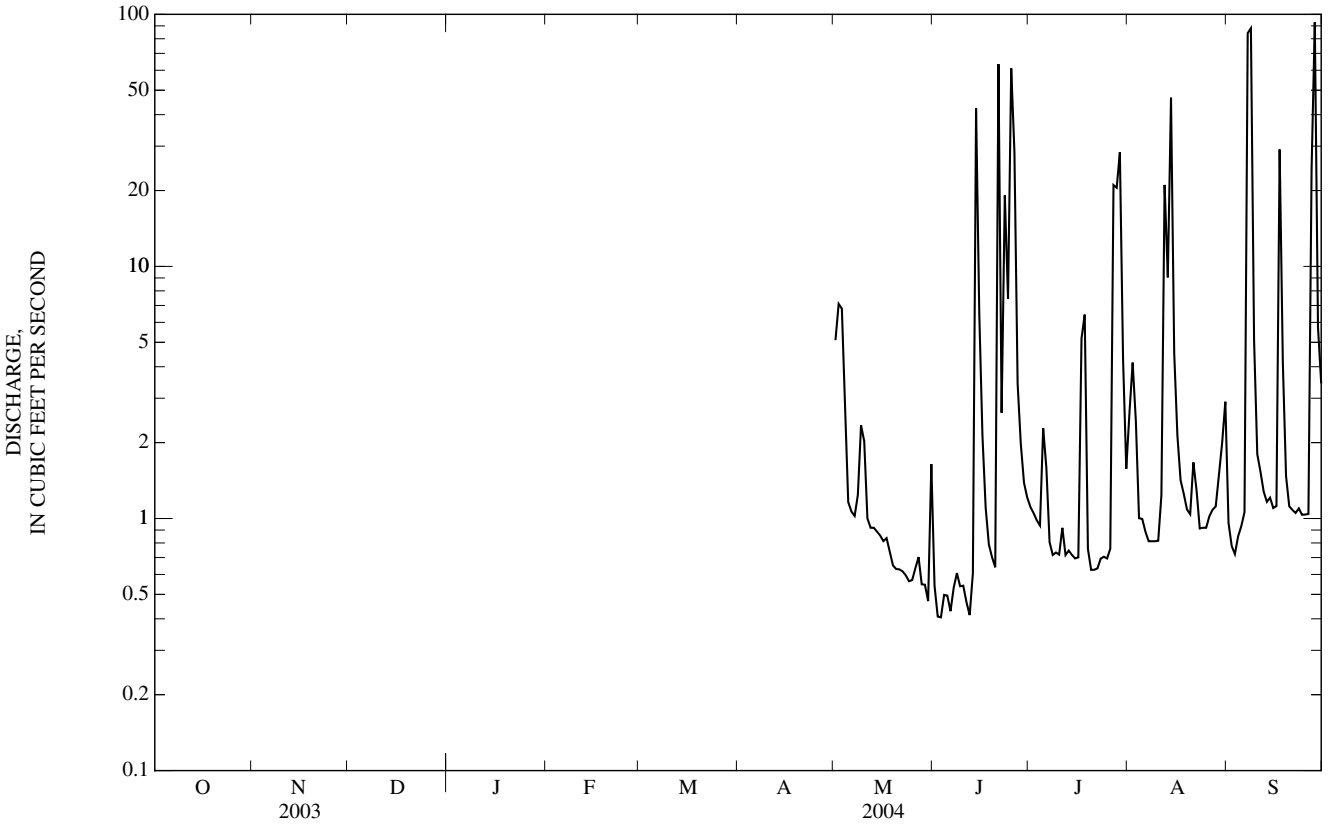
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e5.1	0.54	1.1	2.6	0.96
2	---	---	---	---	---	---	---	e7.1	0.41	1.1	4.2	0.78
3	---	---	---	---	---	---	---	e6.8	0.41	0.98	2.4	0.72
4	---	---	---	---	---	---	---	e2.8	0.50	0.94	1.0	0.85
5	---	---	---	---	---	---	---	1.2	0.49	2.3	1.00	0.93
6	---	---	---	---	---	---	---	1.1	0.43	1.6	0.89	1.1
7	---	---	---	---	---	---	---	1.0	0.53	0.81	0.81	84
8	---	---	---	---	---	---	---	1.2	0.61	0.72	0.81	88
9	---	---	---	---	---	---	---	2.3	0.54	0.73	0.81	5.1
10	---	---	---	---	---	---	---	2.0	0.54	0.72	0.82	1.8
11	---	---	---	---	---	---	---	1.0	0.47	0.92	1.2	1.5
12	---	---	---	---	---	---	---	0.92	0.41	0.72	21	1.3
13	---	---	---	---	---	---	---	0.92	0.61	0.75	9.0	1.2
14	---	---	---	---	---	---	---	0.89	42	0.72	47	1.2
15	---	---	---	---	---	---	---	0.86	6.5	0.69	4.5	1.1
16	---	---	---	---	---	---	---	0.81	2.1	0.70	2.1	1.1
17	---	---	---	---	---	---	---	0.84	1.1	5.2	1.4	29
18	---	---	---	---	---	---	---	0.74	0.79	6.4	1.3	4.1
19	---	---	---	---	---	---	---	0.65	0.70	0.76	1.1	1.5
20	---	---	---	---	---	---	---	0.63	0.64	0.63	1.0	1.1
21	---	---	---	---	---	---	---	0.63	63	0.63	1.7	1.1
22	---	---	---	---	---	---	---	0.62	2.6	0.63	1.3	1.1
23	---	---	---	---	---	---	---	0.60	19	0.69	0.91	1.1
24	---	---	---	---	---	---	---	0.56	7.5	0.71	0.92	1.0
25	---	---	---	---	---	---	---	0.57	61	0.69	0.92	1.0
26	---	---	---	---	---	---	---	0.63	28	0.76	1.0	1.0
27	---	---	---	---	---	---	---	0.70	3.4	21	1.1	24
28	---	---	---	---	---	---	---	0.55	2.0	21	1.1	93
29	---	---	---	---	---	---	---	0.55	1.4	28	1.5	5.7
30	---	---	---	---	---	---	---	0.47	1.2	4.3	2.0	3.4
31	---	---	---	---	---	---	---	1.6	---	1.6	2.9	---
TOTAL	---	---	---	---	---	---	---	46.34	249.42	108.50	120.29	359.74
MEAN	---	---	---	---	---	---	---	1.49	8.31	3.50	3.88	12.0
MAX	---	---	---	---	---	---	---	7.1	63	28	47	93
MIN	---	---	---	---	---	---	---	0.47	0.41	0.63	0.81	0.72
CFSM	---	---	---	---	---	---	---	0.31	1.70	0.71	0.79	2.45
IN.	---	---	---	---	---	---	---	0.35	1.89	0.82	0.91	2.73

SUMMARY STATISTICS FOR 2004 WATER YEAR

ANNUAL TOTAL	884.29	
ANNUAL MEAN	5.78	
HIGHEST DAILY MEAN	93	Sep 28
LOWEST DAILY MEAN	0.41	Jun 2
ANNUAL SEVEN-DAY MINIMUM	0.47	Jun 1
MAXIMUM PEAK FLOW	622*	Sep 8
MAXIMUM PEAK STAGE	7.48	Sep 8
INSTANTANEOUS LOW FLOW	0.34	Jun 4
ANNUAL RUNOFF (CFSM)	1.18	
ANNUAL RUNOFF (INCHES)	6.71	
10 PERCENT EXCEEDS	15	
50 PERCENT EXCEEDS	1.0	
90 PERCENT EXCEEDS	0.56	

* See REMARKS.
e Estimated.

02142914 GUM BRANCH NEAR THRIFT, NC—Continued



02142914 GUM BRANCH NEAR THRIFT, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2.9	1.8	e3.1	1.2	2.1	7.6	5.9	4.2	4.5	1.3	1.7	0.65
2	e2.8	2.0	2.7	1.2	1.8	4.2	5.0	1.8	27	1.1	1.1	0.71
3	e13	2.6	2.5	1.2	19	3.2	3.6	1.5	3.0	0.99	0.90	0.84
4	e5.5	20	2.2	1.2	5.8	2.8	3.1	1.4	1.6	0.92	0.89	0.95
5	e2.9	4.6	2.2	1.2	3.3	2.4	2.8	1.4	1.2	0.91	0.87	1.3
6	e2.4	2.5	2.7	1.3	2.4	2.2	2.6	1.5	1.1	0.87	0.92	1.3
7	e2.3	2.2	3.7	1.3	2.1	2.0	2.7	1.4	1.0	3.0	1.0	1.5
8	e2.2	2.0	2.5	1.3	2.0	30	4.2	1.3	2.3	1.4	103	1.2
9	2.2	2.1	10	1.1	1.8	5.7	3.0	1.3	86	0.94	12	1.2
10	2.2	2.0	67	1.1	1.9	3.7	2.3	4.6	9.4	0.82	1.8	1.3
11	2.2	2.1	5.6	1.2	1.7	3.0	2.2	4.1	1.9	0.95	1.1	1.1
12	2.1	6.1	3.1	1.2	1.6	2.6	22	1.8	1.2	1.9	1.7	1.0
13	2.8	3.6	2.5	1.2	1.5	2.3	28	1.8	1.0	1.8	1.3	1.00
14	2.4	2.2	2.1	41	2.7	3.7	41	1.6	0.90	0.89	0.79	0.96
15	2.2	2.0	1.8	4.9	2.1	2.4	6.6	1.8	0.79	0.91	0.78	0.94
16	2.2	2.0	1.7	3.1	1.8	23	4.2	1.5	0.72	0.92	0.71	0.81
17	2.2	2.0	1.7	2.5	1.7	25	3.4	1.3	0.67	0.93	1.7	1.4
18	2.0	2.1	1.6	2.0	1.5	6.6	3.0	1.3	0.69	0.93	0.72	1.1
19	2.0	2.1	1.5	1.8	1.5	4.2	2.7	1.4	24	0.94	0.72	0.87
20	2.1	2.2	1.5	1.8	1.7	3.4	2.4	4.4	2.8	0.95	0.72	0.69
21	1.8	2.4	1.5	1.6	9.1	3.0	2.2	1.6	1.2	1.0	0.71	0.72
22	1.9	2.5	1.4	1.6	3.9	9.0	2.8	1.3	0.89	1.8	0.71	0.65
23	1.7	3.2	11	1.5	2.4	32	2.6	1.3	0.77	1.0	0.88	0.58
24	2.1	14	3.2	1.4	17	6.9	1.9	1.2	0.71	0.71	e0.82	0.50
25	1.8	7.4	2.0	1.5	4.4	4.3	1.8	1.2	0.65	0.71	0.82	0.42
26	e1.8	3.0	1.6	1.5	2.9	3.6	1.8	1.1	1.4	0.80	0.80	0.41
27	e1.8	7.7	1.4	1.4	2.9	4.9	1.8	1.1	13	0.83	0.83	0.43
28	1.7	11	1.3	1.3	52	154	1.7	0.99	39	12	0.81	0.41
29	1.9	3.8	1.3	1.5	---	11	1.7	0.82	4.1	16	0.67	0.32
30	1.8	e2.9	1.3	6.7	---	5.6	2.8	0.93	1.7	23	0.66	0.28
31	1.8	---	1.3	3.4	---	10	---	0.91	---	7.2	0.68	---
TOTAL	80.7	126.1	149.0	96.2	154.6	384.3	171.8	53.85	235.19	88.42	142.81	25.54
MEAN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.74	7.84	2.85	4.61	0.85
MAX	13	20	67	41	52	154	41	4.6	86	23	103	1.5
MIN	1.7	1.8	1.3	1.1	1.5	2.0	1.7	0.82	0.65	0.71	0.66	0.28
CFSM	0.53	0.86	0.98	0.63	1.13	2.53	1.17	0.35	1.60	0.58	0.94	0.17
IN.	0.61	0.96	1.13	0.73	1.17	2.92	1.30	0.41	1.79	0.67	1.08	0.19

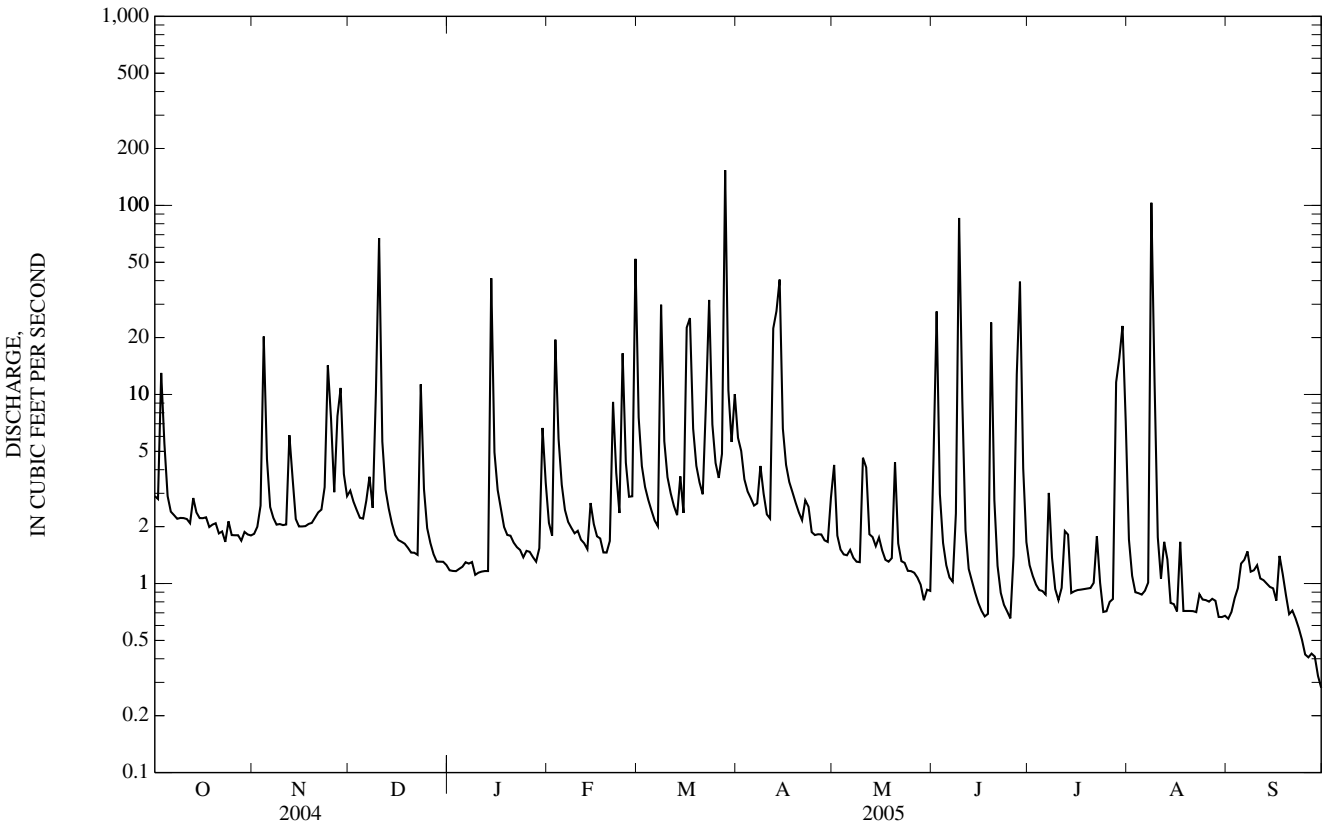
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.62	8.08	3.18	4.24	6.42
MAX	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.74	8.31	3.50	4.61	12.0
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)	(2004)
MIN	2.60	4.20	4.81	3.10	5.52	12.4	5.73	1.49	7.84	2.85	3.88	0.85
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2005)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	1,240.09		1,708.51			
ANNUAL MEAN	5.06		4.68		5.01	
HIGHEST ANNUAL MEAN					5.78	2004
LOWEST ANNUAL MEAN					4.68	2005
HIGHEST DAILY MEAN	93	Sep 28	154	Mar 28	154	Mar 28, 2005
LOWEST DAILY MEAN	0.41	Jun 2	0.28	Sep 30	0.28	Sep 30, 2005
ANNUAL SEVEN-DAY MINIMUM	0.47	Jun 1	0.40	Sep 24	0.40	Sep 24, 2005
MAXIMUM PEAK FLOW			1,000*	Aug 8	1,000*	Aug 8, 2005
MAXIMUM PEAK STAGE			9.50	Aug 8	9.50	Aug 8, 2005
INSTANTANEOUS LOW FLOW			0.22*	Sep 25	0.22*	Sep 25, 2005
ANNUAL RUNOFF (CFSM)	1.03		0.955		1.02	
ANNUAL RUNOFF (INCHES)	9.41		12.97		13.88	
10 PERCENT EXCEEDS	7.6		7.5		7.6	
50 PERCENT EXCEEDS	1.7		1.8		1.6	
90 PERCENT EXCEEDS	0.63		0.81		0.71	

* See REMARKS.
e Estimated.

02142914 GUM BRANCH NEAR THRIFT, NC—Continued



0214291555 LONG CREEK NEAR RHYNE, NC

LOCATION.--Lat 35°18'02", long 80°58'22", Mecklenburg County, Hydrologic Unit 03050101, on right bank 1.6 mi downstream of Gum Branch, .6 mi upstream from bridge on NC Highway 27 and 0.55 mi northwest of Rhyne.

DRAINAGE AREA.--31.49 mi^2.

PERIOD OF RECORD.--October 1998 to current year.

REVISED RECORDS.--WDR NC-04-1: 2001(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage 612.45 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Frequent diversions during summer months for irrigation by upstream golf course. Minimum discharge for current water year and period of record affected by regulation. Minimum discharge for current water year and period of record also occurred on Sept. 23, 25, 26, 27, 30, 2005.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	7.7	13	10	17	67	48	29	16	14	14	1.8
2	15	8.0	11	10	15	33	38	14	165	12	9.0	1.4
3	66	8.7	10	10	94	25	28	12	23	9.8	7.1	1.5
4	32	126	9.3	10	42	21	24	12	12	13	6.5	1.8
5	14	31	8.9	10	21	19	23	11	8.8	8.9	6.0	1.6
6	11	11	9.5	10	17	17	21	12	18	10	5.9	1.1
7	11	9.4	17	9.8	16	17	21	11	35	25	5.8	1.1
8	10	8.6	9.7	9.7	15	156	36	11	60	21	165	1.4
9	9.6	8.4	54	9.5	15	42	35	10	385	9.4	63	1.7
10	9.6	8.4	455	10	15	25	21	14	352	8.1	9.3	1.4
11	9.2	8.1	57	10	14	20	19	28	49	11	6.2	1.1
12	8.8	24	29	9.7	13	18	79	12	24	31	5.4	1.4
13	9.8	24	21	9.9	13	17	188	11	20	15	5.2	0.91
14	9.1	9.1	17	276	17	26	291	11	18	8.6	10	1.5
15	8.4	8.1	15	40	19	18	48	12	16	7.4	7.5	1.3
16	7.8	8.2	14	24	14	121	29	11	14	6.9	3.1	0.87
17	7.5	7.9	13	20	21	154	23	10	13	6.6	3.3	1.8
18	7.7	7.8	13	17	13	48	20	10	10	6.2	4.2	4.5
19	7.9	7.7	13	16	13	28	18	9.7	37	7.9	3.1	6.8
20	8.2	7.8	12	16	13	22	17	27	18	6.1	2.3	2.9
21	8.5	7.6	11	16	50	19	16	12	14	5.8	1.9	2.0
22	8.2	7.9	12	15	32	27	16	9.5	11	9.6	1.8	1.0
23	7.7	9.1	67	15	17	193	20	9.3	11	11	2.9	0.72
24	9.1	52	27	14	102	51	15	8.8	10	6.1	3.6	0.60
25	8.9	50	15	14	34	29	14	8.3	10	5.5	2.1	0.57
26	7.7	13	13	14	20	22	13	8.1	20	5.1	1.5	0.53
27	7.7	16	12	13	18	23	14	7.7	95	4.9	2.6	0.73
28	8.7	95	11	12	363	857	13	7.4	366	24	1.8	1.6
29	9.1	15	11	13	---	97	13	7.4	45	82	1.5	1.7
30	8.8	11	11	40	---	47	17	7.6	20	83	1.8	0.70
31	8.0	---	11	28	---	58	---	7.9	---	75	3.2	---
TOTAL	374.0	616.5	1,002.4	731.6	1,053	2,317	1,178	371.7	1,895.8	549.9	366.6	48.03
MEAN	12.1	20.6	32.3	23.6	37.6	74.7	39.3	12.0	63.2	17.7	11.8	1.60
MAX	66	126	455	276	363	857	291	29	385	83	165	6.8
MIN	7.5	7.6	8.9	9.5	13	17	13	7.4	8.8	4.9	1.5	0.53
CFSM	0.38	0.65	1.03	0.75	1.19	2.37	1.25	0.38	2.01	0.56	0.38	0.05
IN.	0.44	0.73	1.18	0.86	1.24	2.74	1.39	0.44	2.24	0.65	0.43	0.06

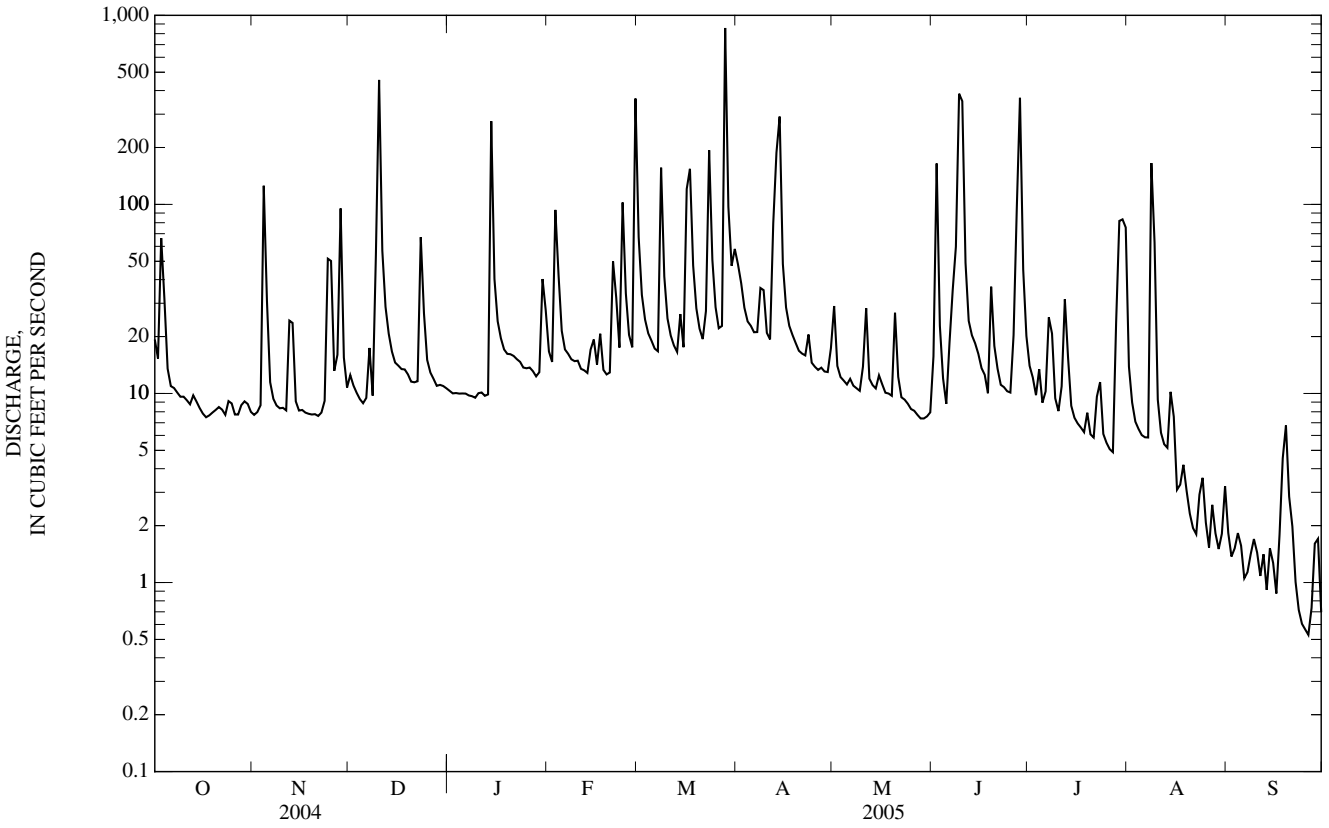
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	12.9	14.8	26.3	25.3	36.8	58.3	43.0	28.9	33.0	19.9	14.9	21.3
MAX	31.1	45.1	87.5	39.8	68.8	146	163	146	96.6	56.5	47.5	84.7
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	1.60	3.29	6.29	9.69	13.9	13.0	9.02	7.61	5.00	4.66	1.43	1.60
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2002)	(2001)	(2002)	(2001)	(2001)	(2005)

0214291555 LONG CREEK NEAR RHYNE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	10,570.1		10,504.53			
ANNUAL MEAN	28.9		28.8		27.9	
HIGHEST ANNUAL MEAN					78.4	2003
LOWEST ANNUAL MEAN					10.7	2002
HIGHEST DAILY MEAN	830	Sep 28	857	Mar 28	2,390	May 22, 2003
LOWEST DAILY MEAN	3.1	Jun 12	0.53	Sep 26	0.12	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	4.1	Jun 1	0.82	Sep 22	0.23	Aug 8, 2002
MAXIMUM PEAK FLOW			1,860	Jun 9	3,570	May 22, 2003
MAXIMUM PEAK STAGE			9.40	Jun 9	12.04	May 22, 2003
INSTANTANEOUS LOW FLOW			0.00*	Sep 22	0.00*	Sep 22, 2005
ANNUAL RUNOFF (CFSM)	0.917		0.914		0.885	
ANNUAL RUNOFF (INCHES)	12.49		12.41		12.03	
10 PERCENT EXCEEDS	53		50		48	
50 PERCENT EXCEEDS	11		12		9.3	
90 PERCENT EXCEEDS	6.0		2.8		2.3	

* See REMARKS.



0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°58'28", Mecklenburg County, Hydrologic Unit 03050101, on left bank on downstream side of culvert at U.S. Highway 74, 0.7 mi downstream of Interstate Highway 85, and 2.5 mi northwest of airport in Charlotte.

DRAINAGE AREA.--10.8 mi^2.

PERIOD OF RECORD.--October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 567.97 ft above NAVD 1988, from U.S. Geological Survey benchmark. Prior to October 1, 1999 at same site at datum 567.97 ft. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 24, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	2.1	4.9	3.5	4.6	17	13	11	12	4.0	5.1	0.96
2	3.9	2.5	3.8	3.4	4.0	10	11	4.1	55	3.3	3.3	0.85
3	20	4.3	3.4	3.4	34	6.3	8.6	3.4	8.5	2.8	2.7	0.81
4	6.4	33	3.2	3.3	11	5.4	7.0	3.1	6.0	2.6	2.5	0.76
5	4.2	7.1	e3.0	3.3	6.6	4.9	6.4	3.1	4.6	3.1	2.3	0.75
6	3.6	4.1	e3.2	3.4	5.6	4.3	6.0	3.8	3.8	2.4	2.2	0.71
7	3.3	3.1	e3.2	3.2	4.9	4.1	6.3	2.7	6.0	10	2.2	0.76
8	3.0	2.7	e3.5	3.1	4.5	47	7.0	2.5	3.6	4.5	74	0.78
9	3.0	2.7	14	3.1	4.2	9.3	5.1	2.3	42	2.5	21	0.76
10	2.8	2.7	99	3.1	4.5	6.7	4.7	6.1	16	2.2	6.0	0.70
11	2.6	2.5	14	3.1	4.1	5.8	4.6	10	6.8	3.4	3.6	0.66
12	2.5	9.5	8.8	2.9	3.9	5.1	37	5.8	4.8	3.8	32	0.67
13	4.8	5.4	6.4	3.0	3.7	4.6	34	5.7	4.6	4.8	10	0.74
14	2.9	3.2	5.3	68	6.6	6.0	64	3.8	3.7	2.3	5.3	0.79
15	2.6	3.0	4.8	9.1	5.0	4.4	13	4.4	3.1	1.9	3.4	0.73
16	2.2	2.7	4.6	6.7	3.8	30	8.6	3.7	2.8	1.7	2.4	3.8
17	2.2	2.7	5.2	5.8	3.7	37	7.1	3.3	2.6	1.6	2.6	2.2
18	2.2	2.6	4.4	5.2	3.5	10	8.6	3.3	2.6	1.6	2.0	0.71
19	2.2	2.6	4.2	4.9	3.4	7.0	8.1	3.1	39	1.4	2.0	0.59
20	2.3	2.5	4.0	4.8	4.1	5.7	6.9	11	7.5	1.4	1.7	0.57
21	2.3	2.6	3.8	4.4	17	5.3	6.4	5.2	3.8	1.3	1.5	0.64
22	2.3	2.6	3.7	4.1	7.4	14	9.0	4.2	2.9	1.3	1.4	0.62
23	2.3	4.7	22	4.0	4.9	62	6.6	4.3	2.6	1.2	2.3	0.61
24	3.3	23	7.2	4.1	24	15	4.0	3.7	2.3	1.1	1.8	0.60
25	2.6	9.8	5.6	3.8	7.8	9.3	3.7	3.5	2.2	1.1	1.3	0.61
26	2.9	4.3	5.0	3.6	5.8	7.7	3.6	3.3	2.9	1.0	1.2	0.70
27	2.4	8.8	4.6	3.3	6.0	9.3	4.1	3.3	31	1.0	1.2	0.78
28	2.3	18	4.4	3.2	94	215	4.0	3.3	73	15	1.2	0.71
29	2.6	5.4	4.4	3.8	---	26	3.7	3.2	9.0	28	1.1	0.76
30	2.4	4.1	3.8	14	---	13	7.1	3.9	5.3	33	1.2	0.55
31	2.2	---	3.7	6.6	---	23	---	3.4	---	8.5	1.5	---
TOTAL	108.7	184.3	271.1	201.2	292.6	630.2	319.2	137.5	370.0	153.8	202.0	25.88
MEAN	3.51	6.14	8.75	6.49	10.4	20.3	10.6	4.44	12.3	4.96	6.52	0.86
MAX	20	33	99	68	94	215	64	11	73	33	74	3.8
MIN	2.2	2.1	3.0	2.9	3.4	4.1	3.6	2.3	2.2	1.0	1.1	0.55
CFSM	0.32	0.57	0.81	0.60	0.97	1.88	0.99	0.41	1.14	0.46	0.60	0.08
IN.	0.37	0.63	0.93	0.69	1.01	2.17	1.10	0.47	1.27	0.53	0.70	0.09

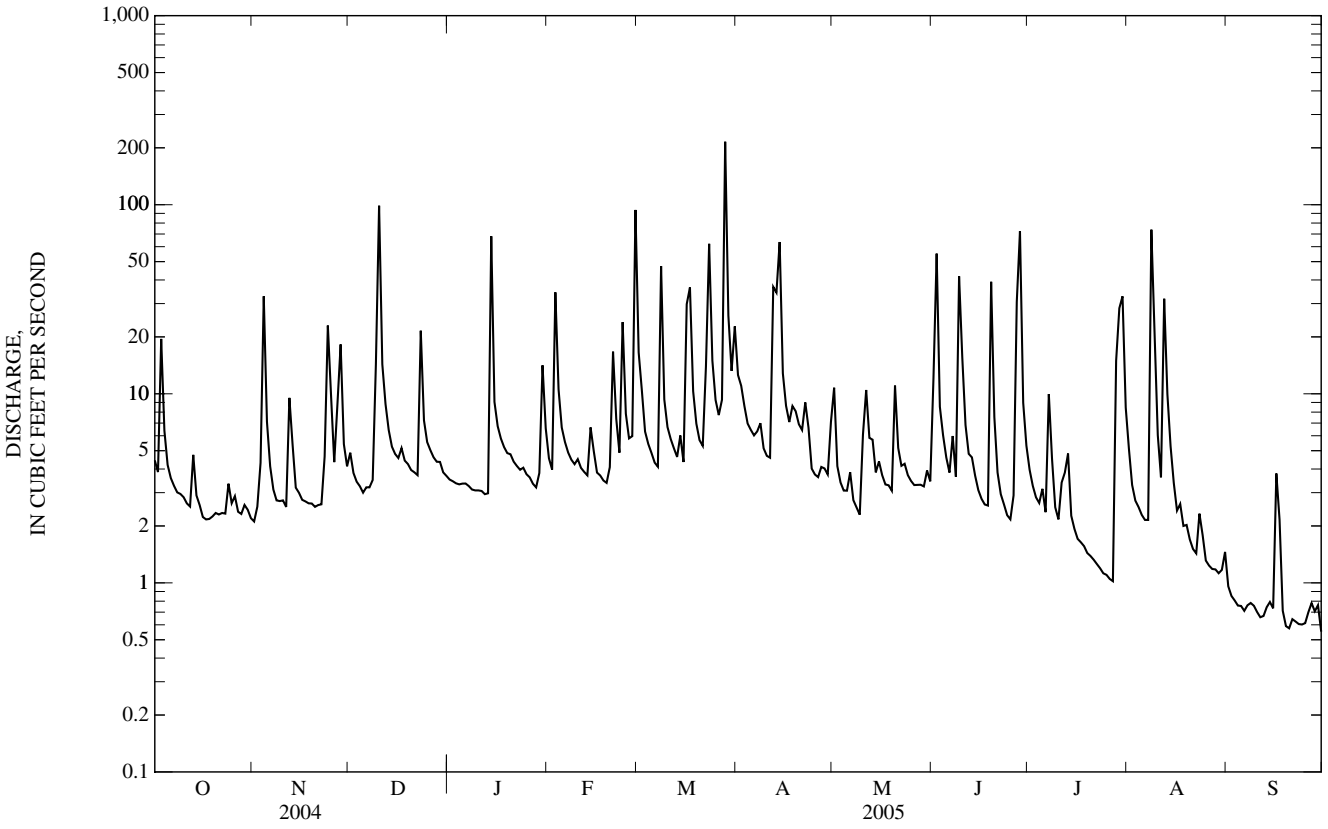
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	7.01	7.65	8.20	12.0	15.7	16.6	14.3	10.3	9.52	8.08	6.64	6.09
MAX	23.0	26.1	23.7	28.9	33.4	39.7	44.9	55.8	29.6	35.2	24.2	18.1
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	0.73	0.59	2.27	2.79	3.27	4.54	3.29	3.21	1.59	1.35	0.33	0.86
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(1999)	(2001)	(2000)	(2001)	(2001)	(2001)	(2005)

0214295600 PAW CREEK AT WILKINSON BOULEVARD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	3,179.93		2,896.48			
ANNUAL MEAN	8.69		7.94		10.1	
HIGHEST ANNUAL MEAN					25.1	2003
LOWEST ANNUAL MEAN					3.93	2001
HIGHEST DAILY MEAN	135	Sep 8	215	Mar 28	835	Jul 23, 1997
LOWEST DAILY MEAN	0.74	Aug 10	0.55	Sep 30	0.06	Oct 30, 2001
ANNUAL SEVEN-DAY MINIMUM	1.0	Aug 5	0.61	Sep 19	0.11	Oct 29, 2001
MAXIMUM PEAK FLOW			855	Mar 28	2,740	Jul 23, 1997
MAXIMUM PEAK STAGE			9.32	Mar 28	10.21	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.44	Sep 30	0.03*	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	0.804		0.735		0.939	
ANNUAL RUNOFF (INCHES)	10.95		9.98		12.76	
10 PERCENT EXCEEDS	17		14		19	
50 PERCENT EXCEEDS	3.7		3.8		3.5	
90 PERCENT EXCEEDS	2.0		1.2		0.87	

* See REMARKS.
e Estimated.



0214297160 BEAVERDAM CREEK ABOVE WINDY GAP ROAD NEAR SHOPTON, NC

LOCATION.--Lat 35°10'11", long 80°59'16", Mecklenburg County, Hydrologic Unit 03050101, on right bank 200 feet above Windy Gap Road, and 1.6 mi west of North Carolina Highway 160 and Shopton.

DRAINAGE AREA.--4.47 mi^2.

PERIOD OF RECORD.--January 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 567.10 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Minimum discharge for period of record and current water year affected by regulation of unknown origin, also occurred Sept. 25-26. Peak discharge for current water year and period of record not determined due to variable backwater from Lake Wylie.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	0.95	2.1	1.1	1.1	7.8	6.7	1.8	2.1	0.64	0.51	0.18
2	1.3	1.0	2.0	1.1	0.99	4.2	4.9	1.2	8.6	0.59	0.48	0.14
3	1.5	1.1	1.9	1.1	6.0	2.8	3.5	1.1	2.0	0.55	0.43	0.11
4	1.4	3.1	1.9	1.1	4.3	2.3	2.7	1.0	1.3	0.53	0.42	0.09
5	1.3	1.3	1.9	1.1	2.6	2.1	2.4	1.0	0.99	0.49	0.46	0.08
6	0.98	1.0	3.0	1.1	2.2	1.8	2.3	1.0	0.84	0.49	0.46	0.07
7	0.94	1.0	2.9	0.99	1.9	1.7	2.3	1.00	0.90	1.0	0.45	0.08
8	0.90	1.0	2.1	1.0	1.9	5.4	2.2	0.98	0.79	0.59	3.6	0.08
9	0.90	1.1	2.7	1.00	1.9	2.8	1.9	0.96	0.69	0.47	4.1	0.07
10	0.90	1.1	23	1.0	1.8	2.2	1.8	1.4	0.70	0.44	0.56	0.06
11	0.88	1.1	5.2	0.99	1.5	2.1	1.7	1.2	0.64	0.75	0.41	0.04
12	0.97	2.3	2.6	0.99	1.5	1.8	6.2	1.2	0.61	0.56	0.38	0.06
13	2.2	1.4	1.9	0.95	1.5	1.7	12	1.6	0.61	0.54	0.35	0.06
14	1.0	1.2	1.5	7.9	2.1	1.7	22	1.1	0.58	0.48	0.32	0.05
15	0.95	1.2	1.3	2.0	1.9	1.6	6.3	0.99	0.53	0.43	0.30	0.03
16	0.93	1.2	1.3	1.4	1.7	5.6	3.7	0.95	0.50	0.38	0.27	0.34
17	0.97	1.2	1.2	1.2	1.5	9.4	2.8	0.90	0.47	0.35	1.4	0.19
18	0.99	1.2	1.2	1.00	1.4	4.3	2.5	0.87	0.46	0.31	0.61	0.08
19	0.97	1.2	1.2	0.97	1.4	2.6	2.2	0.82	2.3	0.30	0.41	0.05
20	0.98	1.2	1.2	0.99	1.4	2.1	2.0	2.1	0.80	0.34	0.40	0.06
21	0.98	1.2	1.2	0.91	3.3	1.9	1.8	0.99	0.68	0.24	0.39	0.09
22	0.98	1.2	1.3	0.89	2.6	3.5	2.0	0.88	0.53	0.55	0.33	0.06
23	0.97	1.5	3.7	0.82	1.9	29	1.9	0.83	0.47	0.40	2.5	0.05
24	0.92	3.4	2.0	0.79	5.1	8.7	1.5	0.83	0.43	0.28	0.66	0.02
25	0.87	3.0	1.5	0.86	2.9	4.5	1.4	0.80	0.41	0.25	0.46	0.00
26	0.86	2.1	1.4	0.86	2.2	3.1	1.3	0.76	0.97	0.27	0.40	0.05
27	0.92	2.6	1.3	0.76	2.0	3.2	1.3	0.73	2.0	0.26	0.37	0.09
28	0.93	4.3	1.2	0.72	23	e35	1.3	0.71	6.0	0.57	0.30	0.04
29	0.93	2.3	1.3	0.81	---	10	1.2	0.68	1.6	2.2	0.26	0.76
30	0.93	2.1	1.2	1.9	---	5.4	1.7	0.89	0.78	1.0	0.26	0.15
31	0.93	---	1.1	1.4	---	7.8	---	0.75	---	0.60	0.28	---
TOTAL	32.68	49.55	79.3	39.70	83.59	178.1	107.5	32.02	40.28	16.85	22.53	3.23
MEAN	1.05	1.65	2.56	1.28	2.99	5.75	3.58	1.03	1.34	0.54	0.73	0.11
MAX	2.2	4.3	23	7.9	23	35	22	2.1	8.6	2.2	4.1	0.76
MIN	0.86	0.95	1.1	0.72	0.99	1.6	1.2	0.68	0.41	0.24	0.26	0.00
CFSM	0.24	0.37	0.57	0.29	0.67	1.29	0.80	0.23	0.30	0.12	0.16	0.02
IN.	0.27	0.41	0.66	0.33	0.70	1.48	0.89	0.27	0.34	0.14	0.19	0.03

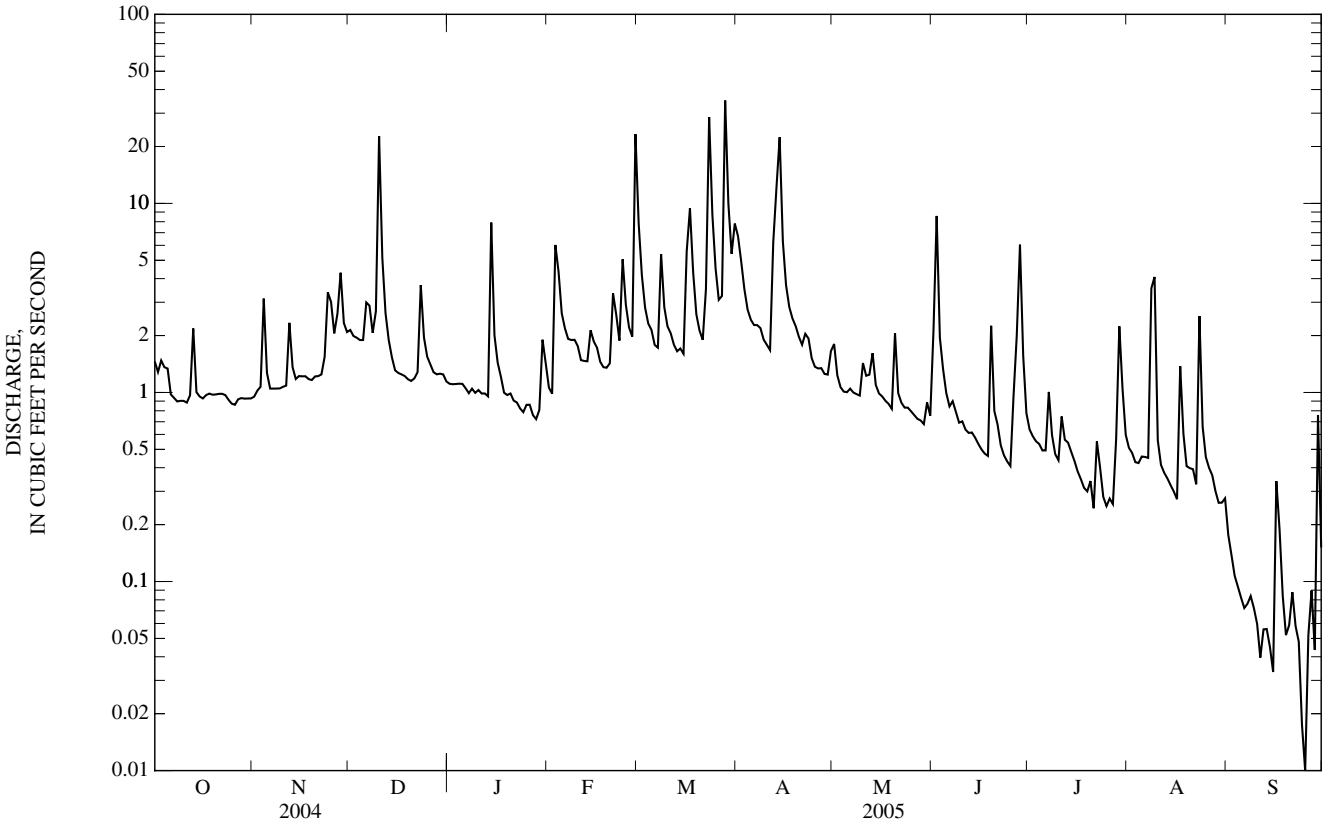
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)

MEAN	0.92	1.13	1.79	1.35	3.43	4.76	4.96	3.35	2.44	1.16	2.24	1.47
MAX	1.05	1.65	2.56	1.81	4.34	6.42	9.78	8.66	3.76	1.62	4.59	3.01
(WY)	(2005)	(2005)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.78	0.60	1.02	0.95	2.98	2.16	1.69	0.54	1.34	0.54	0.73	0.11
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 2003 - 2005
LOWEST DAILY MEAN	0.11 Jun 3	0.00 Sep 25	0.00 Sep 25, 2005
ANNUAL SEVEN-DAY MINIMUM	0.13 Jun 1	0.04 Sep 22	0.04 Sep 22, 2005
MAXIMUM PEAK FLOW		NOT DETERMINED*	NOT DETERMINED*
MAXIMUM PEAK STAGE		4.72 Mar 28	5.91 Jun 7, 2003
INSTANTANEOUS LOW FLOW		0.00* Sep 24	0.00* Sep 24, 2005

* See REMARKS.
e Estimated

0214297160 BEAVERDAM CREEK ABOVE WINDY GAP ROAD NEAR SHOPTON, NC—Continued



02143000 HENRY FORK NEAR HENRY RIVER, NC

LOCATION.--Lat 35°41'04", long 81°24'12", Catawba County, Hydrologic Unit 03050102, on left bank 325 ft downstream of bridge on Secondary Road 1124, at site of Old Link Ford, 1.2 mi downstream of Burke-Catawba County line, and 2 mi southeast of Henry River.

DRAINAGE AREA.--83.2 mi^2.

PERIOD OF RECORD.--July 1925 to November 1931, December 1941 to current year.

REVISED RECORDS.--WSP 952: 1928, 1930. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 890.99 ft above NGVD of 1929. July 1925 to November 1931, at site 450 ft upstream at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known: 29.2 ft, Aug. 13, 1940, at former site, from floodmarks; discharge: 31,300 ft^3/s. The flood of July 16, 1916, reached a stage of about 23 ft at former site; discharge: 20,700 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	153	81	174	122	113	285	199	136	88	81	151	89
2	135	80	168	119	108	189	210	123	198	106	105	81
3	126	88	153	116	130	156	190	119	178	91	89	76
4	117	318	139	115	130	142	174	117	130	101	82	73
5	107	380	129	113	123	138	163	119	107	99	77	71
6	102	186	124	114	116	139	155	120	96	83	74	68
7	99	138	127	112	112	137	155	115	91	660	77	67
8	96	121	121	112	111	140	168	112	100	561	127	65
9	94	108	196	107	110	126	176	109	116	280	130	63
10	92	102	646	105	108	120	161	107	108	140	144	61
11	90	98	456	104	103	116	153	109	108	120	112	60
12	87	202	344	103	101	113	148	105	99	258	92	58
13	241	301	213	107	101	110	190	103	104	153	84	57
14	139	183	177	358	103	114	325	109	97	142	79	55
15	112	148	157	323	101	105	357	113	87	129	91	55
16	101	133	147	175	100	110	258	110	80	117	79	54
17	94	124	142	149	98	128	186	101	76	121	74	53
18	91	117	137	133	94	124	173	98	74	107	315	53
19	91	112	134	126	93	117	163	129	128	126	306	51
20	91	109	127	126	94	114	155	134	311	152	162	50
21	89	106	123	122	121	110	150	117	123	109	121	49
22	87	103	121	117	130	109	148	100	97	97	101	49
23	89	122	457	114	113	205	166	100	86	101	289	49
24	90	176	479	107	122	242	144	95	79	92	267	47
25	87	322	322	109	117	168	139	90	76	86	138	47
26	84	221	188	109	110	144	136	88	76	82	114	51
27	85	166	160	106	107	137	139	85	79	79	104	53
28	85	166	143	100	236	1,250	130	85	83	82	96	48
29	85	144	137	103	---	508	129	85	81	89	91	48
30	85	134	132	123	---	370	136	83	87	92	92	46
31	82	---	126	125	---	253	---	81	---	104	116	---
TOTAL	3,206	4,789	6,399	4,074	3,205	6,219	5,276	3,297	3,243	4,640	3,979	1,747
MEAN	103	160	206	131	114	201	176	106	108	150	128	58.2
MAX	241	380	646	358	236	1,250	357	136	311	660	315	89
MIN	82	80	121	100	93	105	129	81	74	79	74	46
CFSM	1.24	1.92	2.48	1.58	1.38	2.41	2.11	1.28	1.30	1.80	1.54	0.70
IN.	1.43	2.14	2.86	1.82	1.43	2.78	2.36	1.47	1.45	2.07	1.78	0.78

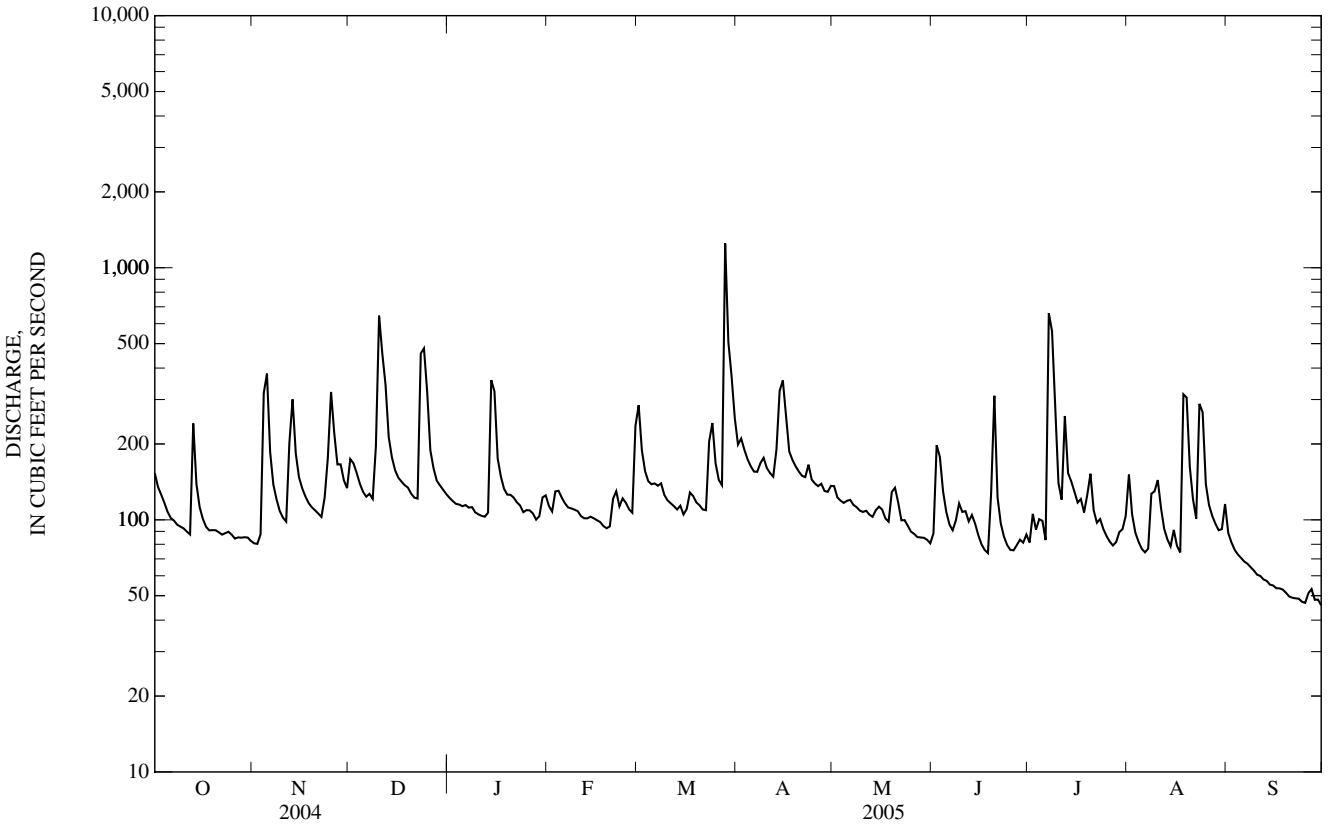
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2005,@ BY WATER YEAR (WY)

MEAN	105	103	126	150	183	203	185	137	116	89.5	98.0	95.2
MAX	562	392	276	380	473	583	470	322	392	203	554	594
(WY)	(1930)	(1978)	(1984)	(1996)	(1960)	(1975)	(1983)	(1984)	(1947)	(1949)	(1928)	(1945)
MIN	24.5	34.8	31.1	32.3	49.0	69.7	56.8	35.8	20.8	14.5	12.5	25.4
(WY)	(2001)	(1932)	(1956)	(1956)	(2001)	(1985)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

02143000 HENRY FORK NEAR HENRY RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1926 - 2005[@]	
ANNUAL TOTAL	50,827		50,074			
ANNUAL MEAN	139		137		133	
HIGHEST ANNUAL MEAN					221	1993
LOWEST ANNUAL MEAN					45.5	2002
HIGHEST DAILY MEAN	6,500	Sep 8	1,250	Mar 28	10,100	Oct 2, 1929
LOWEST DAILY MEAN	40	Aug 9	46	Sep 30	4.0	Nov 15, 1942
ANNUAL SEVEN-DAY MINIMUM	43	Aug 5	49	Sep 24	5.8	Aug 8, 2002
MAXIMUM PEAK FLOW			2,880	Mar 28	15,300	Oct 2, 1929
MAXIMUM PEAK STAGE			7.21	Mar 28	18.71	Oct 12, 1990
INSTANTANEOUS LOW FLOW			44	Sep 30	3.0	Dec 20, 1942
ANNUAL RUNOFF (CFSM)	1.67		1.65		1.60	
ANNUAL RUNOFF (INCHES)	22.73		22.39		21.70	
10 PERCENT EXCEEDS	184		203		219	
50 PERCENT EXCEEDS	92		113		93	
90 PERCENT EXCEEDS	58		78		42	

[@] See PERIOD OF RECORD.



02143040 JACOB FORK AT RAMSEY, NC

LOCATION.--Lat 35°35'26", long 81°34'01", Burke County, Hydrologic Unit 03050102, on left bank 16 ft downstream of bridge on Secondary Road 1924, 0.6 mi downstream of Queens Creek, and 0.6 mi north of Ramsey.

DRAINAGE AREA.--25.7 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-61. October 1961 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,103.00 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from rating curve extended above 3,400 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Sept. 21, 22, 24, 25, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 1940 reached a stage of about 39 ft, from information by local resident. Flood of July 1916 reached a stage of about 19 ft, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	20	79	49	41	102	64	43	33	37	64	27
2	46	21	76	48	39	73	75	39	119	31	34	24
3	40	31	62	48	49	61	65	38	74	33	26	23
4	35	406	51	49	49	54	57	36	47	176	22	22
5	31	167	45	50	48	54	52	38	34	55	19	22
6	29	74	43	52	45	57	48	37	28	33	19	20
7	29	53	46	52	44	54	51	36	26	426	77	20
8	26	42	43	55	44	59	60	35	29	256	71	19
9	25	36	149	53	43	49	64	33	26	80	88	19
10	26	32	412	52	42	46	61	32	36	48	85	18
11	24	31	182	53	39	44	53	32	37	39	51	17
12	23	120	111	54	39	43	48	31	31	65	35	17
13	71	126	84	56	39	40	79	31	42	55	29	17
14	36	73	67	251	39	39	226	37	38	47	26	17
15	29	55	58	101	38	36	117	37	29	41	30	17
16	26	48	53	71	38	41	74	33	24	35	23	16
17	23	43	51	60	37	47	62	30	22	31	95	17
18	22	39	49	51	36	44	56	30	21	28	238	16
19	25	37	49	49	35	44	52	30	68	26	86	15
20	24	36	44	49	37	44	48	39	40	26	51	16
21	23	34	43	47	54	42	45	31	33	27	37	15
22	22	32	42	44	56	42	47	28	25	32	47	15
23	23	41	379	43	50	112	51	28	21	53	229	16
24	24	73	202	42	58	96	44	26	18	29	76	15
25	22	126	105	41	55	65	42	25	17	24	49	15
26	22	75	79	41	52	53	42	25	18	22	40	17
27	22	58	66	39	49	52	43	25	20	20	35	18
28	22	59	58	36	105	519	39	25	22	18	32	16
29	22	48	56	38	---	187	37	25	21	29	30	16
30	22	45	53	48	---	96	39	21	18	24	32	16
31	21	---	51	44	---	73	---	21	---	70	34	---
TOTAL	887	2,081	2,888	1,766	1,300	2,368	1,841	977	1,017	1,916	1,810	538
MEAN	28.6	69.4	93.2	57.0	46.4	76.4	61.4	31.5	33.9	61.8	58.4	17.9
MAX	71	406	412	251	105	519	226	43	119	426	238	27
MIN	21	20	42	36	35	36	37	21	17	18	19	15
CFSM	1.11	2.70	3.62	2.22	1.81	2.97	2.39	1.23	1.32	2.40	2.27	0.70
IN.	1.28	3.01	4.18	2.56	1.88	3.43	2.66	1.41	1.47	2.77	2.62	0.78

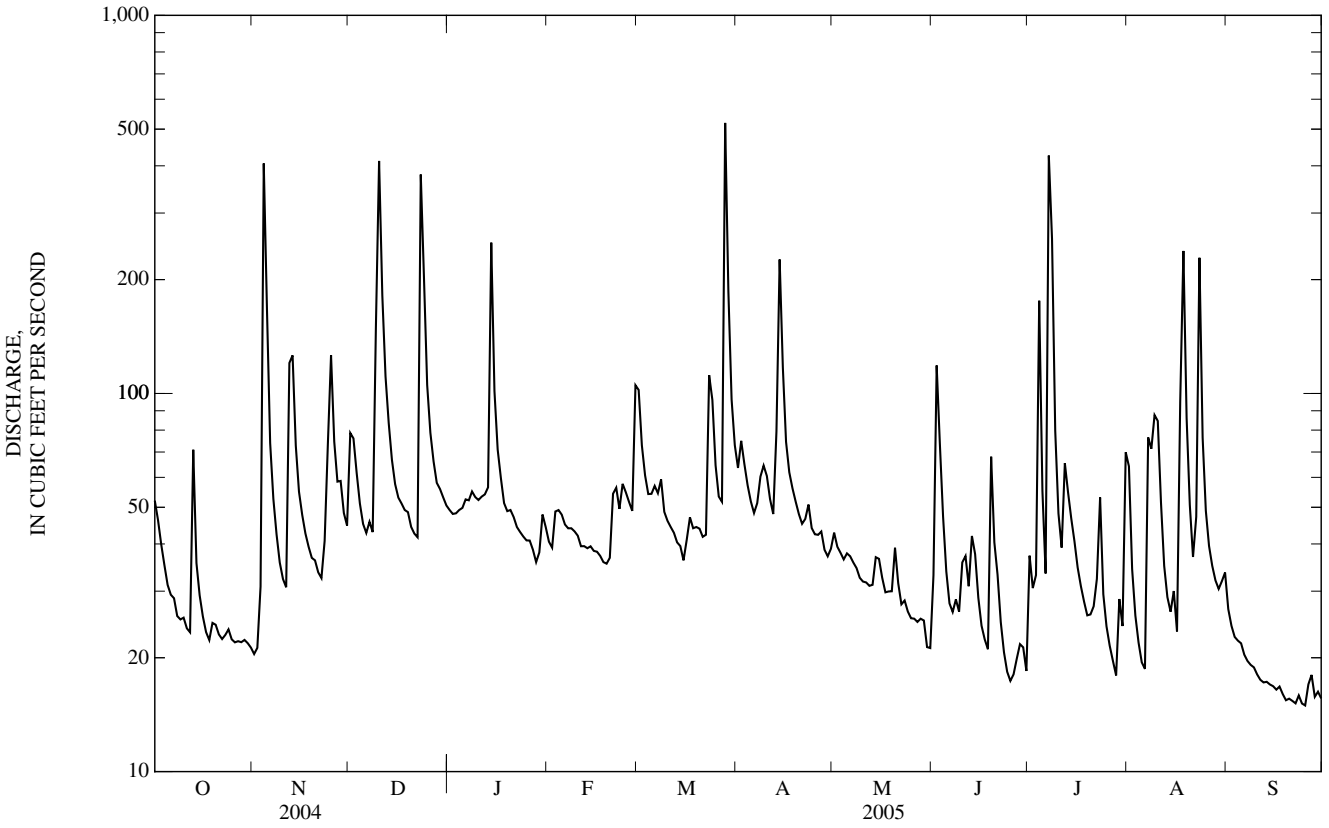
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	39.0	41.3	47.8	57.0	64.8	75.7	68.1	51.7	42.4	34.9	34.1	30.8
MAX	154	130	93.2	131	134	177	171	124	148	98.6	152	157
(WY)	(1965)	(1978)	(2005)	(1993)	(1966)	(1975)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
MIN	7.83	8.49	14.5	15.6	19.3	27.4	19.4	9.93	4.98	2.87	4.48	7.94
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(1988)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)

02143040 JACOB FORK AT RAMSEY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	18,981		19,389			
ANNUAL MEAN	51.9		53.1		48.9	
HIGHEST ANNUAL MEAN					90.9	2003
LOWEST ANNUAL MEAN					16.6	2002
HIGHEST DAILY MEAN	2,450	Sep 8	519	Mar 28	2,450	Sep 8, 2004
LOWEST DAILY MEAN	12	Aug 8	15	Sep 19	0.87	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	13	Aug 5	15	Sep 19	0.90	Aug 7, 2002
MAXIMUM PEAK FLOW			1,220	Jul 7	7,220*	Oct 17, 1975
MAXIMUM PEAK STAGE			7.08	Jul 7	19.74	Oct 17, 1975
INSTANTANEOUS LOW FLOW			15*	Sep 19	0.79	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	2.02		2.07		1.90	
ANNUAL RUNOFF (INCHES)	27.47		28.07		25.85	
10 PERCENT EXCEEDS	75		79		85	
50 PERCENT EXCEEDS	28		41		32	
90 PERCENT EXCEEDS	17		21		14	

* See REMARKS.



02143040 JACOB FORK AT RAMSEY, NC—Continued

PRECIPITATION RECORDS

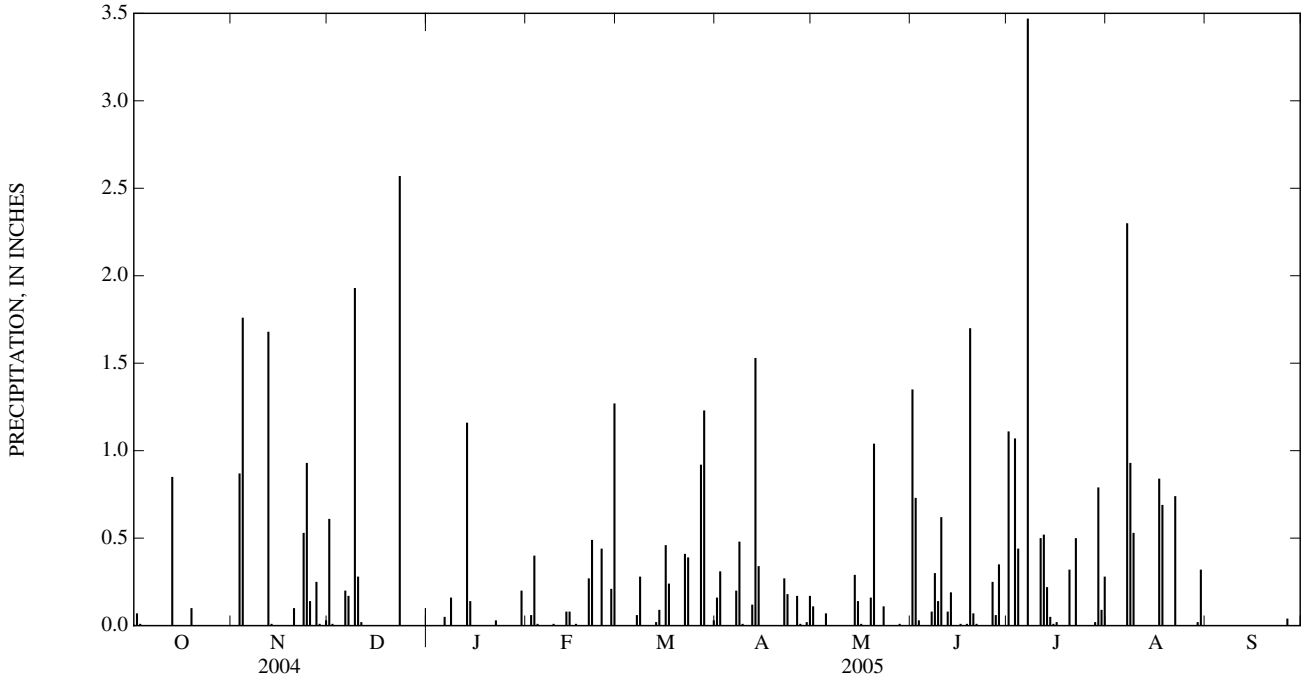
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.61	0.00	0.00	0.00	0.16	0.11	1.35	1.11	0.00	0.00
2	0.07	0.00	0.01	0.00	0.06	0.00	0.31	0.00	0.73	0.00	0.00	0.00
3	0.01	0.87	0.00	0.00	0.40	0.00	0.00	0.00	0.03	1.07	0.00	0.00
4	0.00	1.76	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.44	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.20	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.17	0.00	0.00	0.06	0.20	0.00	0.08	3.47	2.30	0.00
8	0.00	0.00	0.00	0.16	0.00	0.28	0.48	0.00	0.30	0.00	0.93	0.00
9	0.00	0.00	1.93	0.00	0.01	0.00	0.01	0.00	0.14	0.00	0.53	0.00
10	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00
11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00
12	0.00	1.68	0.00	0.00	0.00	0.00	0.12	0.00	0.08	0.52	0.00	0.00
13	0.85	0.01	0.00	1.16	0.08	0.02	1.53	0.00	0.19	0.22	0.00	0.00
14	0.00	0.00	0.00	0.14	0.08	0.09	0.34	0.29	0.00	0.05	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.46	0.00	0.01	0.01	0.02	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.84	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.69	0.00
19	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.70	0.00	0.00	0.00
20	0.00	0.10	0.00	0.00	0.27	0.00	0.00	1.04	0.07	0.32	0.00	0.00
21	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.01	0.00	0.00	0.00
22	0.00	0.00	0.00	0.03	0.00	0.41	0.27	0.00	0.00	0.50	0.74	0.00
23	0.00	0.53	2.57	0.00	0.00	0.39	0.18	0.11	0.00	0.00	0.00	0.00
24	0.00	0.93	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.25	0.00	0.00	0.04
27	0.00	0.25	0.00	0.00	0.21	0.92	0.01	0.00	0.06	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	1.27	1.23	0.00	0.01	0.35	0.02	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.02	0.00	0.00	0.79	0.02	0.00
30	0.00	0.03	0.00	0.20	---	0.00	0.17	0.00	0.00	0.09	0.32	0.00
31	0.00	---	0.00	0.00	---	0.03	---	0.00	---	0.28	0.00	---
TOTAL	1.03	6.31	5.79	1.74	3.33	4.13	3.97	1.94	5.98	9.41	6.37	0.04



02143500 INDIAN CREEK NEAR LABORATORY, NC

LOCATION.--Lat 35°25'14", long 81°15'55", Lincoln County, Hydrologic Unit 03050102, on left bank 250 ft upstream from remains of Rudisill Mill dam, 0.5 mi upstream from bridge on Secondary Road 1252, 1.5 mi south of Laboratory, 1.5 mi upstream from mouth, and 3.5 mi south of Lincolnton.

DRAINAGE AREA.--69.2 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WDR NC-71-1: 1970(M). WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 741.62 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 22, 24, 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Peak discharge of flood in October 1929 was 9,920 ft^3/s; flood in July 1916, 7,840 ft^3/s; flood in August 1940, 6,000 ft^3/s. Discharge based on computation of peak flow over dam 1 mi downstream, using floodmarks and information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	47	78	74	72	219	131	81	63	54	90	25
2	72	46	71	72	69	130	122	70	148	56	60	24
3	72	57	71	71	96	103	107	67	98	49	52	24
4	68	625	69	71	91	90	101	66	77	88	46	22
5	59	244	67	69	78	85	97	65	67	59	43	22
6	56	113	68	70	73	79	94	67	60	48	41	21
7	54	88	80	68	72	76	96	63	56	288	41	21
8	52	75	72	71	72	110	108	62	68	368	52	20
9	52	67	196	67	71	86	102	59	154	108	90	20
10	52	63	1,950	67	70	e85	90	64	230	74	99	19
11	49	61	477	65	65	e83	88	71	185	64	53	19
12	48	229	195	65	64	e82	95	58	99	65	45	18
13	50	197	150	66	63	e80	141	63	84	106	41	18
14	48	107	121	609	66	e90	201	120	74	232	39	18
15	47	89	106	178	66	82	141	90	66	321	38	18
16	44	83	95	124	65	98	117	72	58	118	35	20
17	43	77	90	98	63	113	107	62	55	90	34	21
18	43	72	87	85	61	99	101	60	51	78	43	18
19	48	68	84	82	59	89	96	57	61	78	42	17
20	52	67	78	80	61	84	90	163	66	95	36	17
21	48	65	77	79	90	76	84	104	91	65	34	17
22	47	64	78	75	91	72	82	73	56	59	33	e17
23	46	66	209	72	72	132	95	66	51	54	40	e19
24	46	92	165	67	89	113	79	61	48	49	37	17
25	48	143	117	69	84	90	75	57	47	46	33	16
26	45	92	103	69	75	83	73	56	48	43	31	18
27	46	81	93	66	71	82	75	56	53	41	31	21
28	48	87	87	62	460	1,240	70	54	91	38	30	19
29	49	75	82	64	---	411	70	54	72	109	29	19
30	50	71	78	86	---	181	77	53	56	89	29	18
31	48	---	76	86	---	147	---	54	---	152	27	---
TOTAL	1,609	3,311	5,370	2,947	2,429	4,590	3,005	2,168	2,433	3,184	1,374	583
MEAN	51.9	110	173	95.1	86.8	148	100	69.9	81.1	103	44.3	19.4
MAX	79	625	1,950	609	460	1,240	201	163	230	368	99	25
MIN	43	46	67	62	59	72	70	53	47	38	27	16
CFSM	0.75	1.59	2.50	1.37	1.25	2.14	1.45	1.01	1.17	1.48	0.64	0.28
IN.	0.86	1.78	2.89	1.58	1.31	2.47	1.62	1.17	1.31	1.71	0.74	0.31

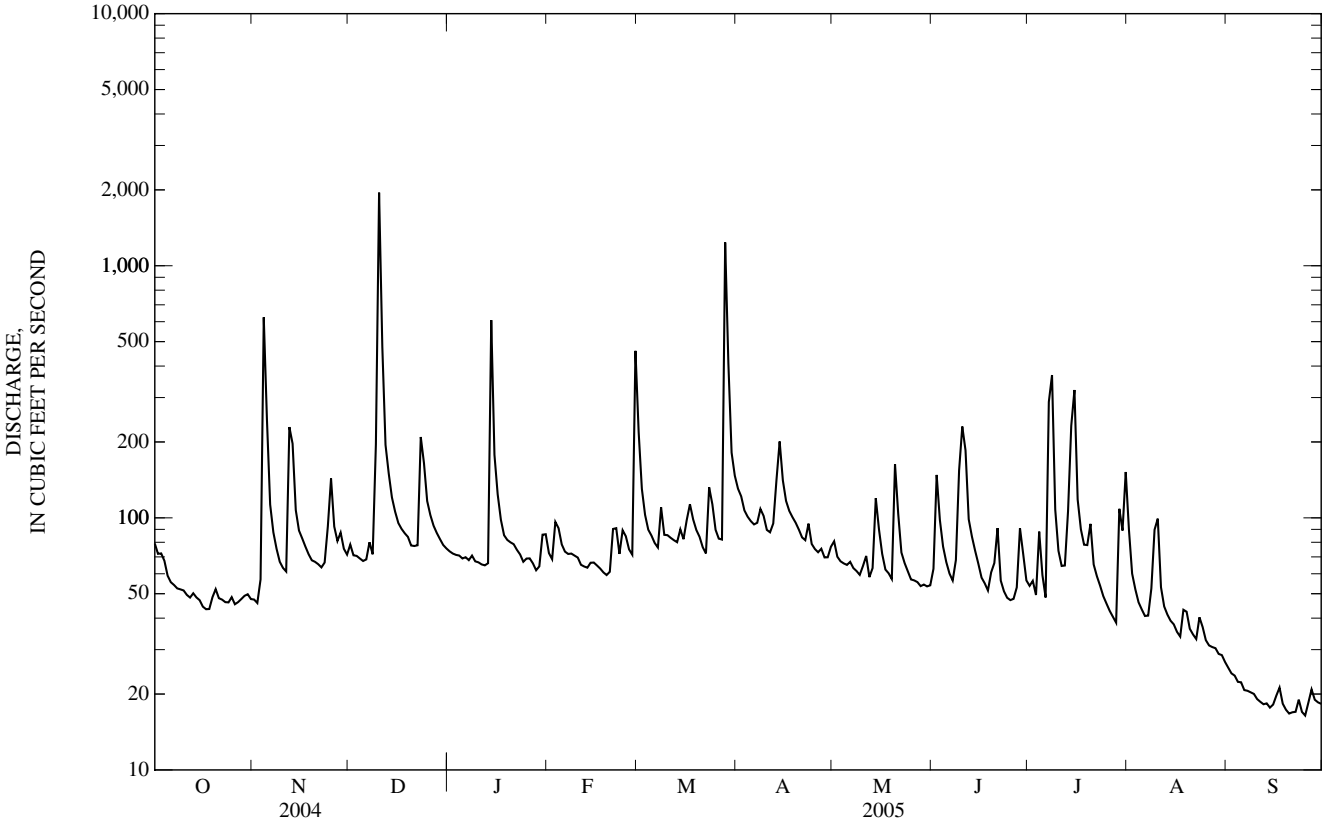
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	64.7	64.8	89.8	115	134	152	118	87.1	74.3	53.9	54.2	45.5
MAX	324	272	236	313	309	424	358	256	280	220	275	205
(WY)	(1965)	(1958)	(1968)	(1978)	(1960)	(1952)	(2003)	(2003)	(2003)	(2003)	(1970)	(2004)
MIN	7.35	13.7	19.9	25.8	44.0	53.4	31.5	19.2	6.97	4.40	1.90	4.66
(WY)	(2002)	(2002)	(2002)	(1956)	(1986)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

02143500 INDIAN CREEK NEAR LABORATORY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	32,527		33,003			
ANNUAL MEAN	88.9		90.4		87.6	
HIGHEST ANNUAL MEAN					171	2003
LOWEST ANNUAL MEAN					21.8	2002
HIGHEST DAILY MEAN	2,450	Sep 8	1,950	Dec 10	4,350	Aug 10, 1970
LOWEST DAILY MEAN	20	Aug 10	16	Sep 25	0.32	Aug 12, 2002
ANNUAL SEVEN-DAY MINIMUM	23	Aug 5	17	Sep 19	0.45	Aug 9, 2002
MAXIMUM PEAK FLOW			2,770	Dec 10	8,450	Aug 10, 1970
MAXIMUM PEAK STAGE			6.17	Dec 10	10.61	Aug 10, 1970
INSTANTANEOUS LOW FLOW			14*	Sep 20	0.25*	Aug 12, 2002
ANNUAL RUNOFF (CFSM)	1.28		1.31		1.27	
ANNUAL RUNOFF (INCHES)	17.49		17.74		17.21	
10 PERCENT EXCEEDS	118		126		146	
50 PERCENT EXCEEDS	59		70		56	
90 PERCENT EXCEEDS	31		32		22	

* See REMARKS.
e Estimated



02144000 LONG CREEK NEAR BESSEMER CITY, NC

LOCATION.--Lat 35°18'23", long 81°14'05", Gaston County, Hydrologic Unit 03050102, on right bank 700 ft upstream from bridge on Secondary Road 1456, 3.3 mi northeast of Bessemer City, and 8.2 mi upstream from mouth.

DRAINAGE AREA.--31.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WSP 1723: 1959-60 (M). WSP 1904: 1959-60. WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 706.1 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Bessemer City diverts water upstream from gaging station for water supply and returns treated effluent to South Fork Catawba River downstream of mouth of Long Creek causing some diurnal fluctuation; a daily average of 1.58 ft^3/s was diverted during the year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 26 ft, from high-water mark on left bank 1,500 ft upstream, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	e13	29	21	23	78	57	36	22	16	17	3.2
2	e24	e14	26	21	22	50	50	27	67	18	14	2.9
3	e21	20	24	21	37	42	40	25	33	15	10	2.7
4	e20	143	22	21	33	38	36	24	27	16	9.4	2.6
5	e16	57	21	21	27	34	32	24	23	14	10	2.4
6	e15	34	24	21	25	32	32	25	20	14	9.4	2.4
7	e15	29	37	20	24	32	34	23	19	29	8.0	2.7
8	e15	26	28	20	24	54	45	22	21	28	9.6	2.8
9	e15	22	52	19	23	39	35	20	45	14	11	2.7
10	e15	20	300	19	23	35	32	18	57	11	27	2.5
11	e14	20	62	19	21	33	31	20	54	11	12	2.4
12	e14	32	40	19	21	31	42	17	29	12	11	2.3
13	e14	34	34	19	21	31	81	28	26	56	10	2.3
14	e14	26	29	151	23	33	156	31	23	48	9.7	2.2
15	e14	22	26	46	21	30	59	29	19	25	9.1	2.4
16	e13	22	25	34	21	52	45	27	17	20	5.5	2.3
17	e13	21	25	30	20	58	40	20	16	17	4.9	2.2
18	e13	21	24	27	19	45	37	20	16	16	15	2.2
19	e14	20	22	24	18	39	35	19	16	14	11	2.2
20	e12	20	20	24	20	36	33	32	17	13	8.8	2.2
21	e12	20	20	24	34	34	31	26	19	11	6.3	2.2
22	e12	19	20	23	32	35	30	22	14	10	5.6	2.1
23	e13	22	73	22	25	78	29	21	12	9.4	7.8	2.2
24	e13	31	45	21	44	49	26	18	11	8.7	7.2	2.0
25	e14	39	33	22	33	41	26	16	11	9.3	7.8	1.8
26	e13	27	30	22	28	38	26	14	11	9.3	7.0	1.9
27	e13	24	27	20	26	39	27	13	18	9.0	4.0	3.0
28	e13	31	23	19	234	706	26	13	39	7.1	3.8	2.4
29	e14	25	23	20	---	101	26	14	23	20	3.6	2.0
30	e14	24	22	28	---	54	29	15	19	23	3.8	2.2
31	e13	---	22	28	---	54	---	16	---	29	5.4	---
TOTAL	461	878	1,208	846	922	2,051	1,228	675	744	552.8	284.7	71.4
MEAN	14.9	29.3	39.0	27.3	32.9	66.2	40.9	21.8	24.8	17.8	9.18	2.38
MAX	26	143	300	151	234	706	156	36	67	56	27	3.2
MIN	12	13	20	19	18	30	26	13	11	7.1	3.6	1.8
CFSM	0.47	0.92	1.23	0.86	1.04	2.08	1.29	0.68	0.78	0.56	0.29	0.07
IN.	0.54	1.03	1.41	0.99	1.08	2.40	1.44	0.79	0.87	0.65	0.33	0.08

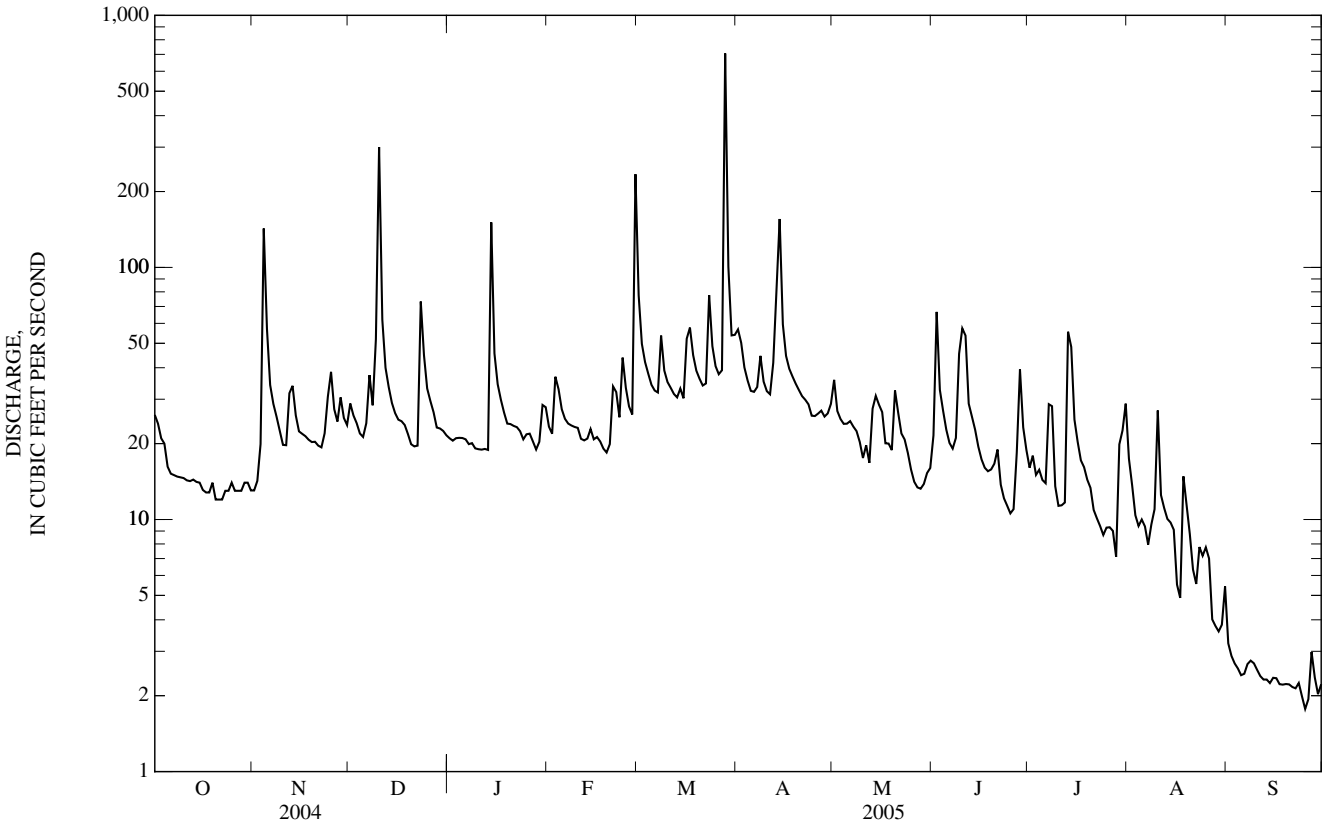
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2005, BY WATER YEAR (WY)

MEAN	24.1	25.3	32.9	47.3	56.2	60.8	47.8	32.6	25.6	18.6	19.9	16.1
MAX	147	128	85.2	135	137	146	142	134	79.5	84.8	81.7	68.8
(WY)	(1972)	(1958)	(1977)	(1993)	(1960)	(1993)	(1958)	(2003)	(2003)	(2003)	(1985)	(2004)
MIN	1.77	2.67	4.69	8.17	12.0	20.5	12.1	6.26	1.76	0.59	0.30	1.02
(WY)	(2002)	(2002)	(2002)	(1956)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1953 - 2005	
ANNUAL TOTAL	10,068.0		9,921.9			
ANNUAL MEAN	27.5		27.2		33.9	
HIGHEST ANNUAL MEAN					64.0	2003
LOWEST ANNUAL MEAN					6.67	2002
HIGHEST DAILY MEAN	1,140	Sep 8	706	Mar 28	2,940	Oct 16, 1971
LOWEST DAILY MEAN	3.6	May 28	1.8	Sep 25	0.05	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 5	2.1	Sep 20	0.10	Aug 8, 2002
MAXIMUM PEAK FLOW			1,200	Mar 28	6,500	Oct 16, 1971
MAXIMUM PEAK STAGE			5.88	Mar 28	9.10	Oct 16, 1971
INSTANTANEOUS LOW FLOW			1.7	Sep 25	0.03	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	0.865		0.855		1.07	
ANNUAL RUNOFF (INCHES)	11.78		11.61		14.48	
10 PERCENT EXCEEDS	36		43		55	
50 PERCENT EXCEEDS	20		21		20	
90 PERCENT EXCEEDS	7.8		5.5		6.0	

e Estimated.



02144000 LONG CREEK NEAR BESSEMER CITY, NC—Continued

PRECIPITATION RECORDS

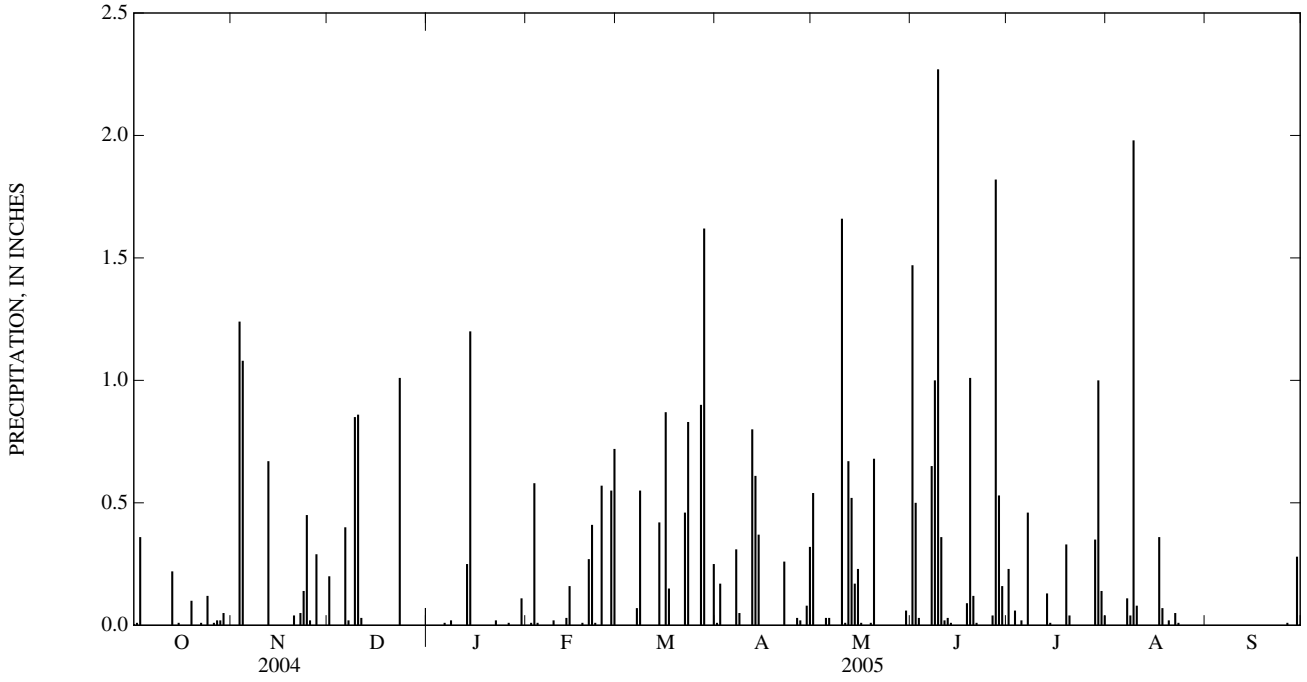
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.20	0.00	0.00	0.00	0.01	0.54	1.47	0.23	0.00	0.00
2	0.01	0.00	0.00	0.00	0.01	0.00	0.17	0.00	0.50	0.00	0.00	0.00
3	0.36	1.24	0.00	0.00	0.58	0.00	0.00	0.00	0.03	0.06	0.00	0.00
4	0.00	1.08	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00
6	0.00	0.00	0.40	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.07	0.31	0.00	0.65	0.46	0.11	0.00
8	0.00	0.00	0.00	0.02	0.00	0.55	0.05	0.00	1.00	0.00	0.04	0.00
9	0.00	0.00	0.85	0.00	0.02	0.00	0.00	0.00	2.27	0.00	1.98	0.00
10	0.00	0.00	0.86	0.00	0.00	0.00	0.00	1.66	0.36	0.00	0.08	0.00
11	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.02	---	0.00	0.00
12	0.00	0.67	0.00	0.00	0.00	0.00	0.80	0.67	0.03	---	0.00	0.00
13	0.22	0.00	0.00	0.25	0.03	0.00	0.61	0.52	0.01	0.13	0.00	0.00
14	0.00	0.00	0.00	1.20	0.16	0.42	0.37	0.17	0.00	0.01	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.01	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.36	0.00
18	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.09	0.00	0.07	0.00
19	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.01	1.01	0.33	0.00	0.00
20	0.00	0.04	0.00	0.00	0.27	0.00	0.00	0.68	0.12	0.04	0.02	0.00
21	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.01	0.00	0.00	0.00
22	0.01	0.05	0.00	0.02	0.01	0.46	0.26	0.00	0.00	0.00	0.05	0.00
23	0.00	0.14	1.01	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.01	0.00
24	0.12	0.45	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.04	0.00	0.00	0.01
27	0.02	0.29	0.00	0.00	0.55	0.90	0.02	0.00	1.82	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.72	1.62	0.00	0.00	0.53	0.35	0.00	0.00
29	0.05	0.00	0.00	0.00	---	0.00	0.08	0.00	0.16	1.00	0.00	0.28
30	0.00	0.00	0.00	0.11	---	0.00	0.32	0.06	0.00	0.14	0.00	0.00
31	0.00	---	0.00	0.00	---	0.25	---	0.00	---	0.04	0.00	---
TOTAL	0.93	3.98	3.37	1.62	3.35	6.12	3.03	4.62	10.12	---	2.72	0.29



02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC

LOCATION.--Lat 35°17'07", long 81°06'04", Gaston County, Hydrologic Unit 03050102, on right bank 50 ft north of private mill road, 120 ft downstream of Housers Creek, 1.0 mi north of Lowell, 2.5 mi upstream from bridge on Interstate Highway 85, and 3.0 mi downstream of Long Creek.

DRAINAGE AREA.--628 mi^2.

PERIOD OF RECORD.--January 1942 to September 1971, October 1983 to current year.

REVISED RECORDS.--WSP 1002: 1943(M). WSP 1303: 1950(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 602.28 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation and slight regulation for short periods at low flow caused by power plant upstream from station. For diversion by Town of Bessemer City, see Long Creek near Bessemer City (station 02144000). Minimum discharge for all water years affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--The flood of Aug. 15, 1940, reached a stage of 21.33 ft, from floodmarks; discharge, 34,000 ft^3/s. Depth of flow over dam during the July 1916 flood at High Shoals, 11 mi upstream, was about 1 ft higher than that for August 1940, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	978	497	750	744	767	2,390	1,290	786	531	505	766	393
2	841	471	788	727	713	1,440	1,140	707	1,060	482	647	357
3	884	530	763	713	814	1,120	1,080	660	964	497	555	331
4	779	2,380	745	709	922	977	991	660	845	1,410	479	321
5	703	2,660	691	699	798	887	945	625	683	765	441	286
6	641	1,460	692	678	742	829	895	650	619	614	398	286
7	629	954	749	683	712	799	868	627	559	649	387	283
8	607	775	713	690	698	971	932	609	584	3,240	439	279
9	591	699	858	696	694	900	924	605	861	2,670	658	274
10	565	654	6,860	670	700	811	872	568	1,260	1,470	955	261
11	537	629	5,630	656	657	758	841	642	1,230	807	651	262
12	545	827	2,320	638	647	739	836	577	786	727	550	247
13	549	2,070	1,440	649	640	723	1,170	813	668	1,030	463	267
14	680	1,290	1,110	2,840	660	759	2,140	872	629	2,310	432	254
15	655	943	971	2,060	676	727	1,700	730	592	1,370	394	238
16	592	808	891	1,310	663	813	1,320	738	544	856	391	232
17	540	758	851	1,040	644	974	1,120	629	486	802	394	254
18	515	720	807	900	622	941	974	581	481	688	433	256
19	518	696	765	829	613	842	895	541	488	634	935	245
20	549	679	748	799	586	771	853	1,150	615	770	762	227
21	527	654	710	785	738	752	818	1,030	878	786	596	229
22	511	653	705	748	926	727	778	720	667	e656	475	182
23	497	627	1,170	738	785	1,110	842	631	532	504	487	243
24	496	781	2,000	709	866	1,210	803	583	496	502	609	244
25	512	1,320	1,690	694	896	1,050	747	566	457	490	657	208
26	509	1,140	1,170	700	788	934	733	524	449	446	533	207
27	503	920	941	694	731	866	745	512	478	412	431	236
28	499	877	872	660	2,300	6,090	717	501	658	416	423	244
29	526	797	838	633	---	5,350	694	490	600	606	377	252
30	523	747	791	749	---	3,110	697	497	552	989	376	244
31	506	---	768	855	---	1,660	---	489	---	763	349	---
TOTAL	18,507	29,016	40,797	26,695	21,998	42,030	29,360	20,313	20,252	28,866	16,443	7,842
MEAN	597	967	1,316	861	786	1,356	979	655	675	931	530	261
MAX	978	2,660	6,860	2,840	2,300	6,090	2,140	1,150	1,260	3,240	955	393
MIN	496	471	691	633	586	723	694	489	449	412	349	182
CFSM	0.95	1.54	2.10	1.37	1.25	2.16	1.56	1.04	1.07	1.48	0.84	0.42
IN.	1.10	1.72	2.42	1.58	1.30	2.49	1.74	1.20	1.20	1.71	0.97	0.46

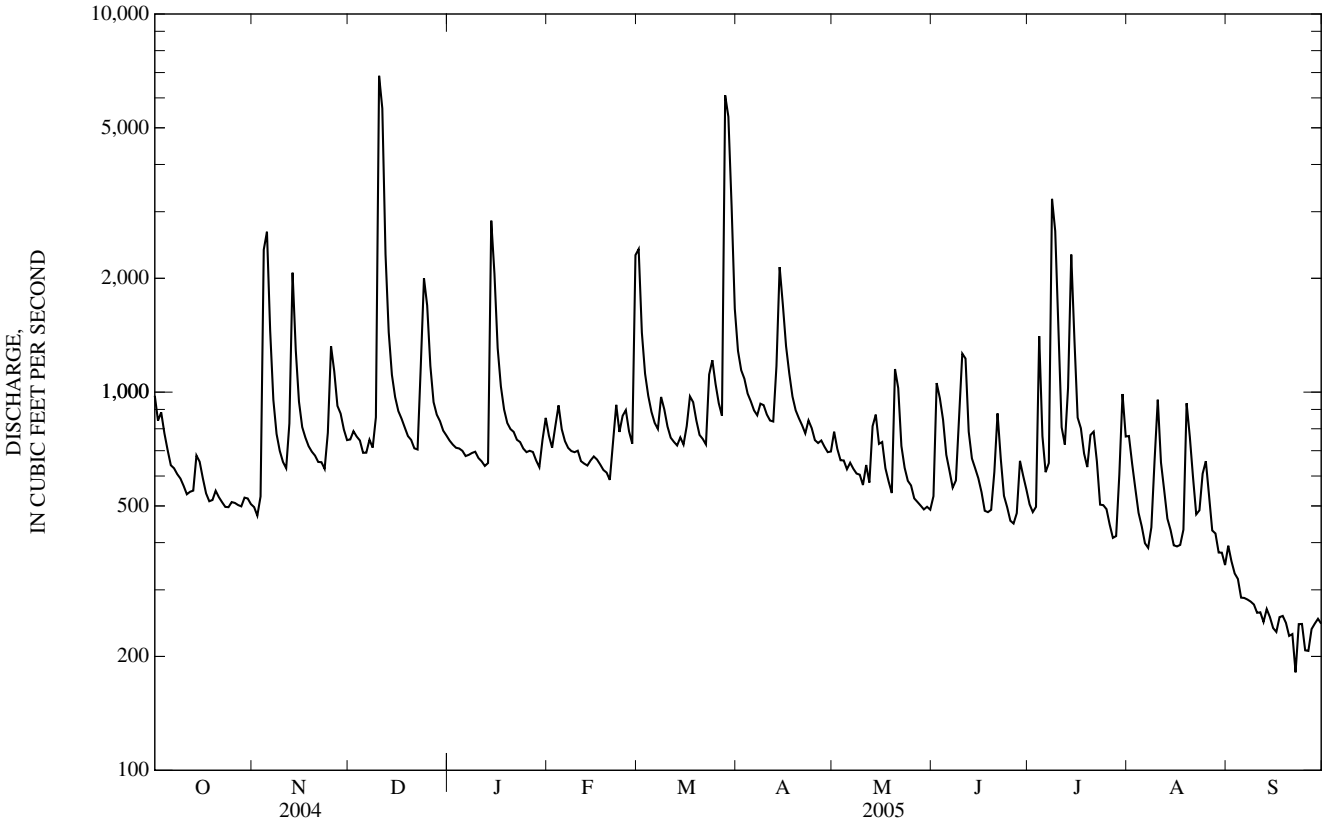
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2005,@ BY WATER YEAR (WY)

MEAN	611	623	789	978	1,189	1,293	1,064	759	647	550	580	508
MAX	2,862	2,034	1,748	2,468	3,204	3,511	3,187	2,412	2,232	1,599	2,266	2,460
(WY)	(1965)	(1958)	(1968)	(1993)	(1960)	(1952)	(2003)	(2003)	(2003)	(2003)	(1970)	(1945)
MIN	104	175	235	242	443	561	367	228	122	109	116	110
(WY)	(1955)	(2002)	(1956)	(1956)	(2002)	(1955)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

02145000 SOUTH FORK CATAWBA RIVER AT LOWELL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1942 - 2005[@]	
ANNUAL TOTAL	316,035		302,119			
ANNUAL MEAN	863		828		799	
HIGHEST ANNUAL MEAN					1,518	2003
LOWEST ANNUAL MEAN					272	2002
HIGHEST DAILY MEAN	8,860	Sep 10	6,860	Dec 10	21,700	Aug 11, 1970
LOWEST DAILY MEAN	284	Aug 11	182	Sep 22	25	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	312	Aug 5	220	Sep 20	54	Aug 9, 2002
MAXIMUM PEAK FLOW			8,720	Mar 28	24,800	Aug 11, 1970
MAXIMUM PEAK STAGE			10.57	Mar 28	17.38	Aug 11, 1970
INSTANTANEOUS LOW FLOW			103*	Sep 22	13*	Aug 22, 1988
ANNUAL RUNOFF (CFSM)	1.37		1.32		1.27	
ANNUAL RUNOFF (INCHES)	18.72		17.90		17.28	
10 PERCENT EXCEEDS	1,240		1,170		1,380	
50 PERCENT EXCEEDS	655		700		566	
90 PERCENT EXCEEDS	433		394		264	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



0214620760 CRN03

LOCATION.--Lat 35°16'33", long 80°49'34", Mecklenburg County, Hydrologic Unit 03050103, Irwin Creek at Starita Road at Charlotte, NC.

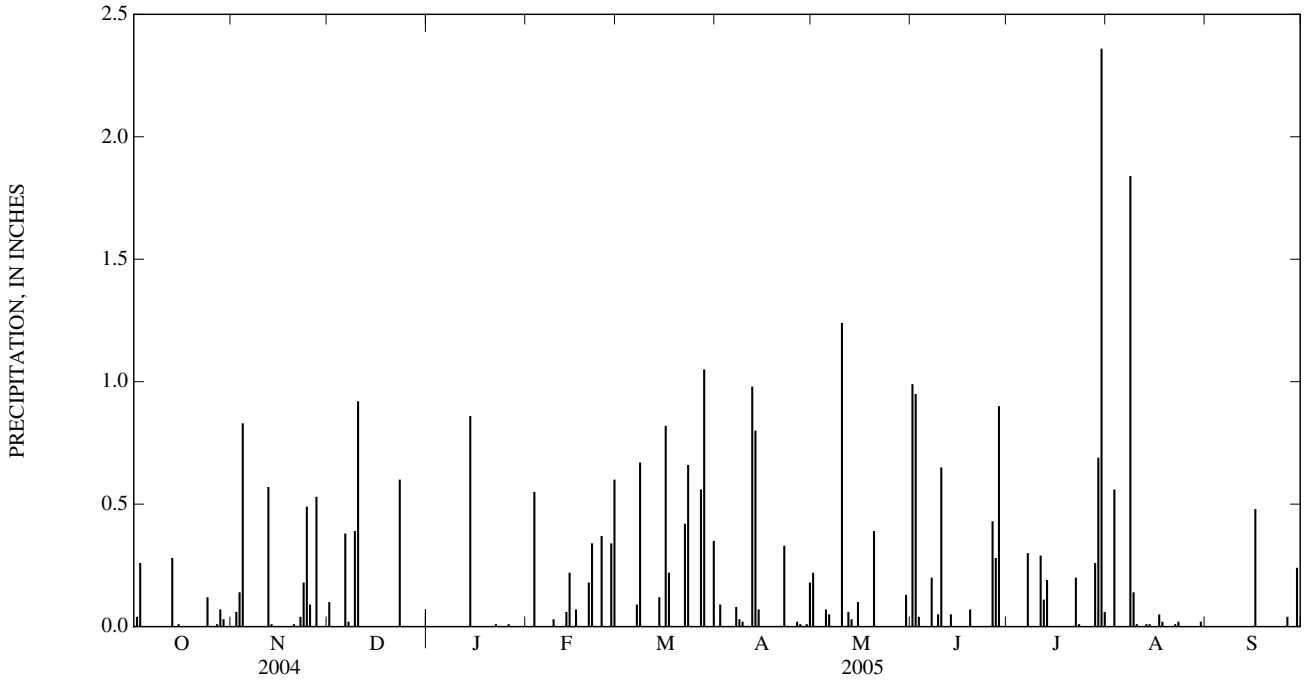
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.22	0.99	0.00	0.00	0.00
2	0.04	0.06	0.00	0.00	0.00	0.00	0.09	0.00	0.95	0.00	0.00	0.00
3	0.26	0.14	0.00	0.00	0.55	0.00	0.00	0.00	0.04	0.00	0.56	0.00
4	0.00	0.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.09	0.08	0.00	0.20	0.30	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.67	0.03	0.00	0.00	0.00	1.84	0.00
9	0.00	0.00	0.39	0.00	0.03	0.00	0.02	0.00	0.05	0.00	0.14	0.00
10	0.00	0.00	0.92	0.00	0.00	0.00	0.00	1.24	0.65	0.00	0.01	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00
12	0.00	0.57	0.00	0.00	0.00	0.00	0.98	0.06	0.00	0.11	0.00	0.00
13	0.28	0.01	0.00	0.00	0.06	0.00	0.80	0.03	0.05	0.19	0.01	0.00
14	0.00	0.00	0.00	0.86	0.22	0.12	0.07	0.00	0.00	0.00	0.01	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.07	0.82	0.00	0.00	0.00	0.00	0.00	0.48
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.05	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.39	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.01	0.00	0.42	0.33	0.00	0.00	0.20	0.01	0.00
23	0.00	0.18	0.60	0.00	0.00	0.66	0.00	0.00	0.00	0.01	0.02	0.00
24	0.12	0.49	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.43	0.00	0.00	0.04
27	0.01	0.53	0.00	0.00	0.34	0.56	0.01	0.00	0.28	0.00	0.00	0.00
28	0.07	0.00	0.00	---	0.60	1.05	0.00	0.00	0.90	0.26	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.69	0.00	0.24
30	0.00	0.00	0.00	---	---	0.00	0.18	0.13	0.00	2.36	0.02	0.00
31	0.00	---	0.00	0.00	---	0.35	---	0.00	---	0.06	0.00	---
TOTAL	0.82	2.95	2.41	---	2.76	4.96	2.62	2.29	4.61	4.47	2.69	0.76



02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC

LOCATION.--Lat 35°15'43", long 80°50'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on Statesville Avenue (U.S. Highway 21), 1,000 ft upstream from Kennedy Branch, 0.2 mi upstream from Interstate Highway 77, and 2.5 mi north of Trade and Tryon Street intersection in downtown Charlotte.

DRAINAGE AREA.--5.97 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1969-80, October 1981 to September 1994, November 1997 to September 2001, June 2004 to current water year.

REVISED RECORDS.--WDR NC-84-1: 1982.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 656.04 ft above North American Vertical Datum of 1988, from levels. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. A 140-acre solid-waste landfill, used 1940 to 1970, is located just upstream from station. No flow for parts of Aug. 1,3,4, 1987, occurred as a result of upstream construction; minimum discharge not affected by construction: 0.12 ft^3/s, Aug. 30,31, 1987. Maximum discharge and gage-height for period June to September 2004 also occurred Sept. 8, 2004. Minimum discharge for period June to September 2004 also occurred June 13, July 14, 2004. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.2	2.6	6.7	1.3
2	---	---	---	---	---	---	---	---	0.95	1.6	1.8	1.1
3	---	---	---	---	---	---	---	---	0.89	1.9	1.1	1.2
4	---	---	---	---	---	---	---	---	1.6	2.0	0.98	1.2
5	---	---	---	---	---	---	---	---	0.93	3.6	2.0	1.2
6	---	---	---	---	---	---	---	---	0.88	1.6	1.0	2.1
7	---	---	---	---	---	---	---	---	0.88	1.3	0.83	214
8	---	---	---	---	---	---	---	---	0.88	1.3	0.84	211
9	---	---	---	---	---	---	---	---	1.0	1.2	0.82	6.6
10	---	---	---	---	---	---	---	---	0.89	1.2	0.83	2.6
11	---	---	---	---	---	---	---	---	0.85	2.3	4.6	1.9
12	---	---	---	---	---	---	---	---	0.77	1.4	109	1.6
13	---	---	---	---	---	---	---	---	4.4	1.2	32	1.4
14	---	---	---	---	---	---	---	---	43	0.91	32	1.3
15	---	---	---	---	---	---	---	---	6.9	0.89	3.4	1.2
16	---	---	---	---	---	---	---	---	5.9	0.83	1.8	1.3
17	---	---	---	---	---	---	---	---	1.4	26	1.4	51
18	---	---	---	---	---	---	---	---	1.2	11	1.3	4.2
19	---	---	---	---	---	---	---	---	1.0	1.5	1.2	1.9
20	---	---	---	---	---	---	---	---	0.97	1.1	1.3	1.5
21	---	---	---	---	---	---	---	---	95	1.1	1.2	1.4
22	---	---	---	---	---	---	---	---	4.3	1.1	1.6	1.3
23	---	---	---	---	---	---	---	---	17	1.00	1.2	1.4
24	---	---	---	---	---	---	---	---	6.0	0.96	1.1	1.4
25	---	---	---	---	---	---	---	---	99	1.1	0.99	1.3
26	---	---	---	---	---	---	---	---	28	1.2	0.98	1.2
27	---	---	---	---	---	---	---	---	4.2	51	1.00	90
28	---	---	---	---	---	---	---	---	2.4	2.2	1.2	225
29	---	---	---	---	---	---	---	---	1.9	6.1	7.0	6.1
30	---	---	---	---	---	---	---	---	1.7	1.8	13	2.7
31	---	---	---	---	---	---	---	---	---	1.3	8.4	---
TOTAL	---	---	---	---	---	---	---	---	335.99	134.29	242.57	841.4
MEAN	---	---	---	---	---	---	---	---	11.2	4.33	7.82	28.0
MAX	---	---	---	---	---	---	---	---	99	51	109	225
MIN	---	---	---	---	---	---	---	---	0.77	0.83	0.82	1.1
IN.	---	---	---	---	---	---	---	---	2.09	0.84	1.51	5.24

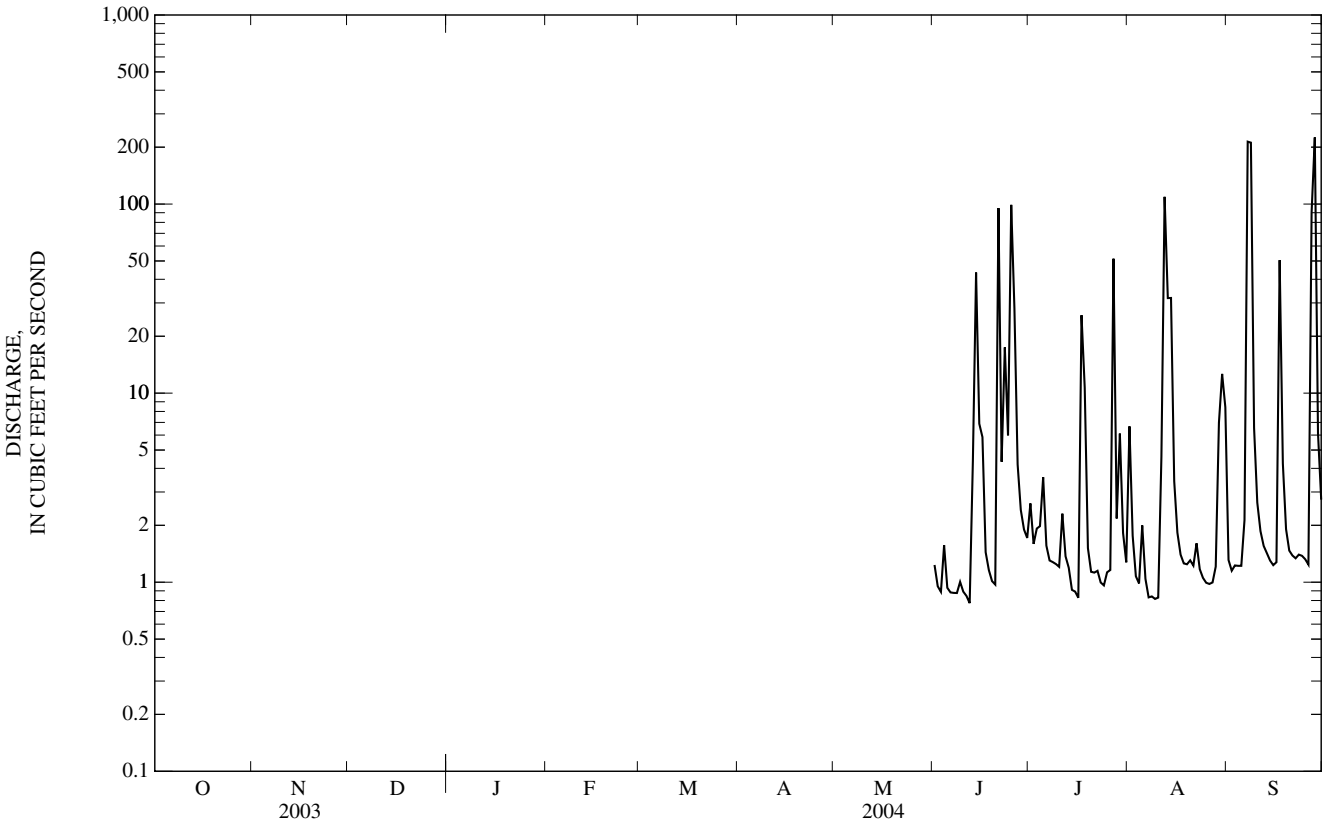
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2004,@ BY WATER YEAR (WY)

MEAN	4.87	6.09	6.81	11.2	13.6	13.7	7.57	6.21	6.17	3.59	4.17	5.24
MAX	23.8	27.8	21.3	22.9	38.8	30.6	16.0	16.5	24.9	8.15	11.3	28.0
(WY)	(1991)	(1986)	(1984)	(1993)	(1995)	(1993)	(1998)	(1990)	(1982)	(1984)	(1985)	(2004)
MIN	0.88	1.08	1.64	2.99	4.06	2.99	2.71	1.94	0.89	0.93	0.39	0.47
(WY)	(2001)	(1982)	(2001)	(2001)	(2001)	(1985)	(1986)	(1986)	(1986)	(1986)	(1987)	(1983)

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 WATER YEAR		WATER YEARS 1981 - 2004[@]	
ANNUAL MEAN			7.09	
HIGHEST ANNUAL MEAN			10.7	1984
LOWEST ANNUAL MEAN			3.25	2001
HIGHEST DAILY MEAN	225	Sep 28	388	Nov 21, 1985
LOWEST DAILY MEAN	0.77	Jun 12	0.16	Aug 1, 1986
ANNUAL SEVEN-DAY MINIMUM	0.88	Jun 6	0.25	Aug 20, 2001
MAXIMUM PEAK FLOW	1,250*	Sep 7	1,430	Jun 18, 1982
MAXIMUM PEAK STAGE	7.12*	Sep 7	7.58	Jun 18, 1982
INSTANTANEOUS LOW FLOW	0.72*	Jun 12	0.00*	Aug 1, 1987
ANNUAL RUNOFF (INCHES)			16.13	
10 PERCENT EXCEEDS			13	
50 PERCENT EXCEEDS			2.4	
90 PERCENT EXCEEDS			0.70	

[@] See PERIOD OF RECORD.
* See REMARKS.



02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.4	2.2	1.6	e2.2	7.7	8.3	7.7	14	1.3	1.4	0.67
2	2.0	2.5	1.6	1.6	2.1	4.2	8.9	3.4	43	1.2	1.0	0.51
3	5.7	1.6	1.5	1.7	23	3.4	5.0	3.1	4.0	1.1	14	0.45
4	2.0	21	1.4	1.7	5.0	2.9	4.5	3.1	2.3	1.1	2.1	0.44
5	1.6	3.0	1.4	1.8	3.0	2.7	4.3	3.4	1.8	1.1	1.0	0.46
6	1.6	1.7	6.8	1.7	2.4	2.4	4.1	3.3	1.6	1.1	0.88	0.47
7	2.1	1.5	3.2	1.7	2.3	2.7	4.7	3.3	2.4	5.7	0.88	0.54
8	2.1	1.4	1.9	1.7	2.3	36	4.9	2.7	3.0	1.4	62	0.42
9	2.2	1.3	5.2	1.6	2.3	5.6	4.1	2.7	5.9	1.1	12	0.49
10	1.7	1.2	66	1.7	2.3	3.7	3.7	63	12	1.1	3.0	0.72
11	2.2	1.2	5.6	1.7	2.1	3.1	3.7	10	3.3	3.4	1.7	0.51
12	1.9	12	3.0	1.7	2.1	2.8	36	3.1	1.8	2.0	1.2	0.54
13	5.3	2.7	2.3	1.7	2.3	2.7	34	2.3	1.8	3.2	2.9	0.62
14	1.5	1.6	2.0	36	7.1	3.4	35	2.0	1.6	1.2	2.8	0.67
15	1.4	1.6	1.9	3.6	2.8	2.4	7.8	1.4	1.5	0.98	1.1	0.62
16	1.1	1.6	e1.7	2.5	3.1	24	5.2	1.2	1.2	0.92	0.91	5.9
17	1.2	1.3	1.7	2.1	2.4	25	4.6	1.5	1.2	0.94	1.2	0.72
18	1.6	1.2	1.6	e1.9	2.0	5.8	4.3	1.6	1.2	0.97	0.93	0.59
19	1.8	1.2	1.6	e2.0	1.9	3.9	4.1	1.6	1.1	0.94	0.94	0.63
20	1.9	1.5	e1.5	e2.0	2.8	3.4	4.2	5.3	1.1	0.93	0.94	0.65
21	1.7	1.5	e1.5	1.9	12	3.1	4.3	1.8	0.95	0.91	0.96	0.54
22	1.6	1.6	e1.5	e1.9	4.7	13	8.8	1.6	0.87	1.9	1.0	0.57
23	1.5	2.7	15	e1.7	2.7	55	4.7	1.5	0.96	0.89	0.92	0.56
24	1.9	11	3.3	e1.7	17	8.1	3.5	1.6	1.0	0.67	1.8	0.59
25	1.4	5.1	2.2	e1.9	4.3	4.7	3.3	1.3	1.0	0.67	0.93	0.53
26	1.5	2.0	e1.9	1.9	3.0	4.4	3.4	1.3	8.0	0.71	0.73	0.59
27	2.3	11	e1.7	e1.7	5.3	8.8	3.7	1.3	4.3	0.65	0.72	0.60
28	4.4	7.7	e1.7	e1.6	61	124	3.8	1.2	28	2.7	0.79	0.46
29	2.6	2.3	1.7	e3.0	---	13	3.7	1.2	2.8	17	0.82	1.0
30	1.6	1.8	1.7	e13	---	7.3	6.4	1.7	1.6	94	0.81	0.39
31	1.6	---	1.6	e3.0	---	17	---	1.3	---	5.0	0.75	---
TOTAL	65.0	109.2	147.9	105.3	185.5	406.2	237.0	141.5	155.28	156.78	123.11	22.45
MEAN	2.10	3.64	4.77	3.40	6.62	13.1	7.90	4.56	5.18	5.06	3.97	0.75
MAX	5.7	21	66	36	61	124	36	63	43	94	62	5.9
MIN	1.1	1.2	1.4	1.6	1.9	2.4	3.3	1.2	0.87	0.65	0.72	0.39
IN.	0.41	0.68	0.92	0.66	1.16	2.53	1.48	0.88	0.97	0.98	0.77	0.14

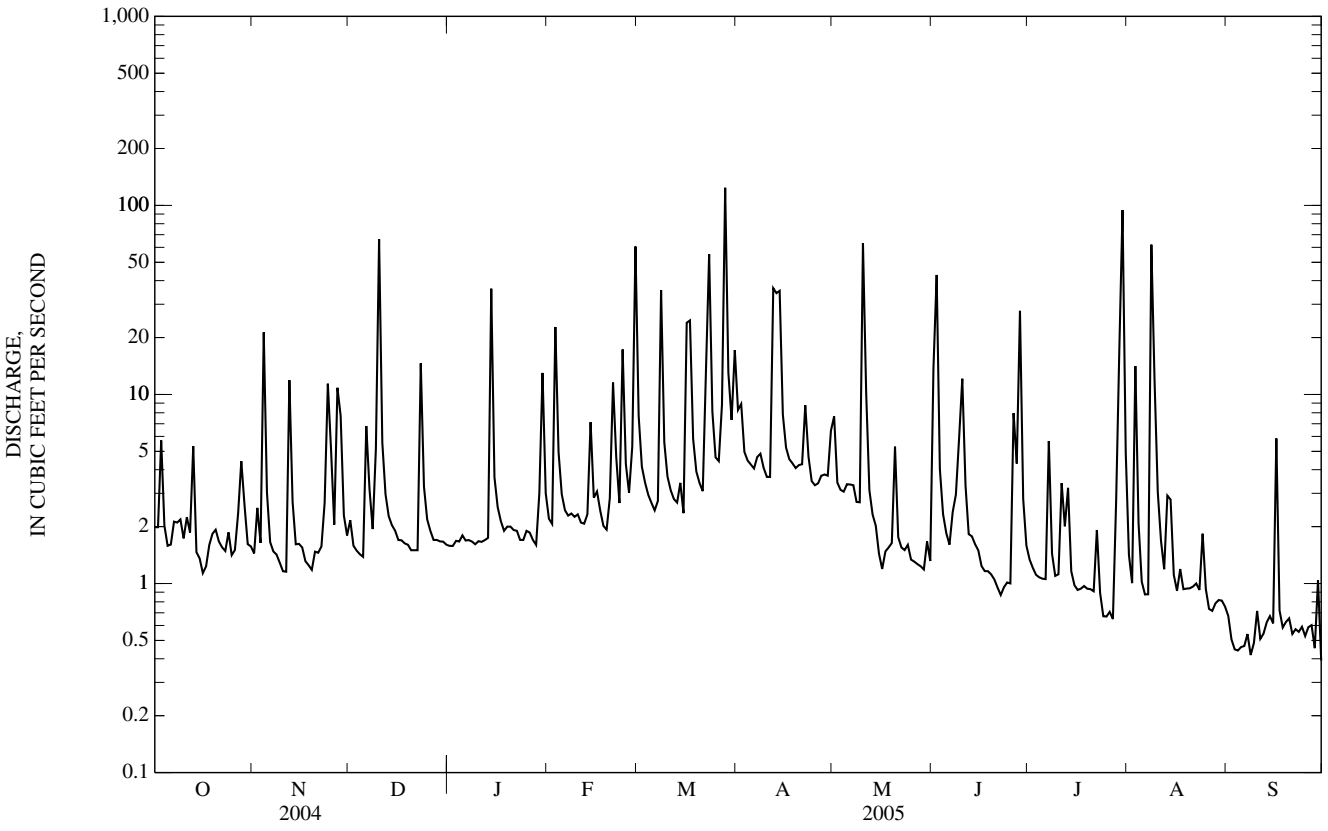
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005,[@] BY WATER YEAR (WY)

MEAN	4.73	5.96	6.70	10.8	13.2	13.7	7.59	6.12	6.12	3.66	4.16	5.00
MAX	23.8	27.8	21.3	22.9	38.8	30.6	16.0	16.5	24.9	8.15	11.3	28.0
(WY)	(1991)	(1986)	(1984)	(1993)	(1995)	(1993)	(1998)	(1990)	(1982)	(1984)	(1985)	(2004)
MIN	0.88	1.08	1.64	2.99	4.06	2.99	2.71	1.94	0.89	0.93	0.39	0.47
(WY)	(2001)	(1982)	(2001)	(2001)	(2001)	(1985)	(1986)	(1986)	(1986)	(1986)	(1987)	(1983)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1981 - 2005[@]	
ANNUAL TOTAL			1,855.22			
ANNUAL MEAN			5.08		6.97	
HIGHEST ANNUAL MEAN					10.7	1984
LOWEST ANNUAL MEAN					3.25	2001
HIGHEST DAILY MEAN	225	Sep 28	124	Mar 28	388	Nov 21, 1985
LOWEST DAILY MEAN	0.77	Jun 12	0.39	Sep 30	0.16	Aug 1, 1986
ANNUAL SEVEN-DAY MINIMUM	0.88	Jun 6	0.47	Sep 3	0.25	Aug 20, 2001
MAXIMUM PEAK FLOW			1,220	Jul 30	1,430	Jun 18, 1982
MAXIMUM PEAK STAGE			7.06	Jul 30	7.58	Jun 18, 1982
INSTANTANEOUS LOW FLOW			0.32*	Sep 8	0.00*	Aug 1, 1987
ANNUAL RUNOFF (INCHES)			11.56		15.86	
10 PERCENT EXCEEDS			8.8		13	
50 PERCENT EXCEEDS			1.9		2.3	
90 PERCENT EXCEEDS			0.80		0.70	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.

02146211 IRWIN CREEK AT STATESVILLE AVENUE AT CHARLOTTE, NC—Continued



0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°14'25", long 80°52'06", Mecklenburg County, Hydrologic Unit 03050103, on right upstream side of culvert on State Street, 1.1 mi upstream of Irwin Creek, and 2.1 mi northwest of city hall, Charlotte.

DRAINAGE AREA.--9.27 mi^2.

PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 630.54 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges and those above 500 ft^3/s, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 500 ft^3/s on basis of culvert computation of peak flow. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.8	6.5	7.3	6.1	6.3	e13	12	17	31	12	8.1	4.6
2	6.6	7.0	5.5	6.1	6.7	e9.0	14	7.5	72	11	5.3	5.3
3	16	6.9	5.5	5.8	39	9.7	9.4	7.9	11	9.4	13	4.1
4	6.6	50	4.7	6.2	9.9	8.3	11	7.5	8.2	7.3	7.2	5.3
5	6.1	9.4	5.4	e5.8	6.7	8.5	10	6.5	6.5	8.5	6.3	5.2
6	5.5	5.6	17	e6.2	7.7	7.1	11	8.5	7.2	8.4	4.5	5.2
7	4.6	5.7	7.5	5.5	6.5	8.8	10	7.9	6.0	28	5.8	4.7
8	e5.0	5.8	5.6	6.2	6.8	58	8.6	6.8	12	7.0	74	5.8
9	e5.8	6.4	19	6.1	6.0	10	7.9	6.4	16	7.0	17	5.1
10	e5.3	4.7	126	5.5	7.4	11	8.7	32	12	7.5	8.4	4.1
11	e4.8	4.8	13	5.4	5.6	9.2	10	11	8.7	18	7.1	3.6
12	e5.0	25	9.0	8.1	6.5	9.0	60	8.8	e7.7	13	7.5	5.8
13	10	7.6	7.5	7.8	6.3	7.5	37	8.1	7.4	15	6.9	3.5
14	6.2	4.9	6.5	75	16	10	50	6.5	6.8	7.6	6.4	4.6
15	5.0	5.3	7.0	7.8	6.5	7.4	14	9.3	6.2	6.7	6.0	4.7
16	5.4	5.4	6.5	7.6	6.8	40	9.6	6.5	6.5	4.9	5.9	18
17	5.6	5.3	6.9	6.8	6.5	e35	9.4	7.0	6.2	6.5	8.9	4.9
18	5.3	3.9	7.1	5.8	5.8	e12	e8.9	6.5	5.6	6.9	5.4	4.4
19	5.7	4.6	7.4	8.0	5.6	10	7.7	6.8	90	6.2	6.5	4.3
20	5.8	5.0	6.7	9.3	8.2	9.7	7.2	19	15	4.8	e5.6	5.3
21	5.7	5.0	6.2	8.1	23	8.5	8.6	6.8	11	6.7	e6.1	5.9
22	5.3	4.8	6.3	5.9	8.6	26	16	6.2	8.8	21	e4.0	4.8
23	5.2	8.1	31	6.0	6.8	76	8.6	8.1	9.4	7.1	8.5	5.2
24	7.1	27	8.2	6.6	28	15	7.5	7.0	10	5.9	6.5	5.6
25	5.5	13	6.7	9.6	8.2	11	9.8	5.7	9.9	7.7	5.9	4.8
26	5.5	5.5	6.6	7.9	7.3	8.1	8.0	5.9	17	5.5	4.0	3.9
27	4.0	27	7.0	6.2	11	17	7.9	7.6	30	6.5	5.2	6.8
28	6.3	16	6.0	5.2	88	200	6.7	6.1	55	28	5.0	5.8
29	9.5	6.7	5.9	8.0	---	21	8.6	6.2	15	36	5.4	9.1
30	5.3	5.1	5.8	19	---	13	15	7.6	8.7	74	5.4	5.0
31	5.4	---	6.5	7.9	---	27	---	6.9	---	14	5.8	---
TOTAL	193.9	298.0	377.3	291.5	357.7	715.8	413.1	271.6	516.8	408.1	277.6	165.4
MEAN	6.25	9.93	12.2	9.40	12.8	23.1	13.8	8.76	17.2	13.2	8.95	5.51
MAX	16	50	126	75	88	200	60	32	90	74	74	18
MIN	4.0	3.9	4.7	5.2	5.6	7.1	6.7	5.7	5.6	4.8	4.0	3.5
CFSM	0.67	1.07	1.31	1.01	1.38	2.49	1.49	0.95	1.86	1.42	0.97	0.59
IN.	0.78	1.20	1.51	1.17	1.44	2.87	1.66	1.09	2.07	1.64	1.11	0.66

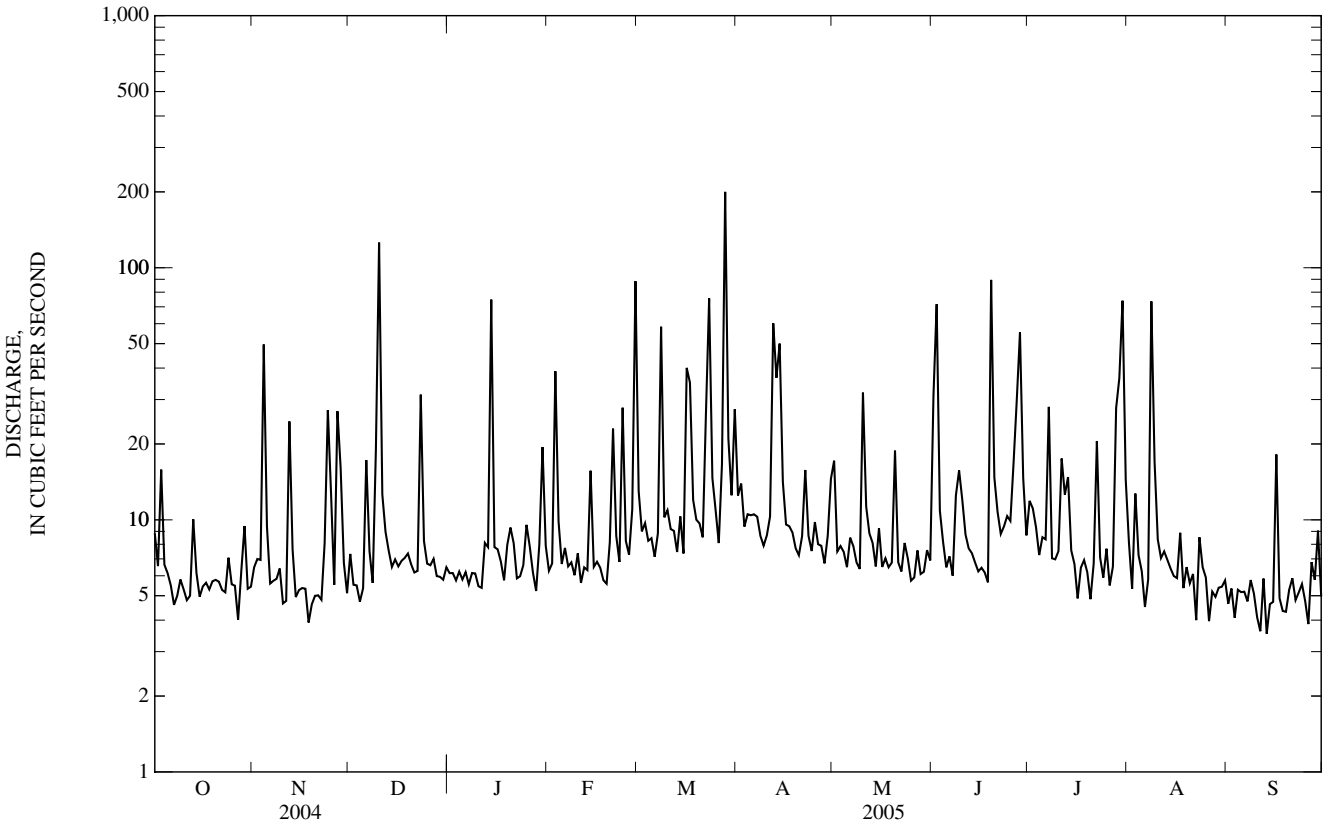
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	11.6	10.6	13.7	11.3	13.9	24.1	18.0	19.3	19.1	15.2	14.9	15.3
MAX	28.0	16.6	25.6	16.8	19.3	49.7	49.0	58.9	49.8	27.3	42.3	34.2
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	6.25	6.96	9.46	7.24	9.54	8.09	7.07	8.76	7.75	8.41	6.37	5.51
(WY)	(2005)	(2004)	(2001)	(2004)	(2002)	(2004)	(2002)	(2005)	(2000)	(2001)	(2001)	(2005)

0214627970 STEWART CREEK AT STATE STREET AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	4,846.0		4,286.8			
ANNUAL MEAN	13.2		11.7		15.8	
HIGHEST ANNUAL MEAN					32.6	2003
LOWEST ANNUAL MEAN					10.6	2002
HIGHEST DAILY MEAN	300	Sep 7	200	Mar 28	923	May 22, 2003
LOWEST DAILY MEAN	3.3	Jul 21	3.5	Sep 13	3.3	Jul 21, 2004
ANNUAL SEVEN-DAY MINIMUM	3.8	Jul 19	4.5	Sep 9	3.8	Jul 19, 2004
MAXIMUM PEAK FLOW			1,220	Jun 19	3,100*	Jun 7, 2003
MAXIMUM PEAK STAGE			5.67	Jun 19	9.47	Jun 7, 2003
INSTANTANEOUS LOW FLOW			2.2*	Sep 13	1.6*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	1.43		1.27		1.71	
ANNUAL RUNOFF (INCHES)	19.45		17.20		23.22	
10 PERCENT EXCEEDS	19		19		23	
50 PERCENT EXCEEDS	6.3		7.0		7.8	
90 PERCENT EXCEEDS	4.6		5.1		5.3	

* See REMARKS.
e Estimated.



02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC

LOCATION.--Lat 35°13'42", long 80°52'09", Mecklenburg County, Hydrologic Unit 03050103, on right bank at bridge on West Morehead Street (US 29), 0.5 mi upstream of Irwin Creek, and 1.8 mi northeast of city hall, Charlotte.

DRAINAGE AREA.--11.1 mi^2.

PERIOD OF RECORD.--October 2000 to current year.

REVISED RECORDS.--WDR NC-03-1B: 2001, 2002.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 617.43 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Site is affected by variable backwater conditions at high flow; therefore, a peak flow was not determined for current water year and period of record. Missing values on the daily values table are days when flow exceeded rating. Minimum discharge for period of record and current water year affected by regulation of unknown origin. Minimum discharge for period of record also occurred Aug. 5, 6, 2002.

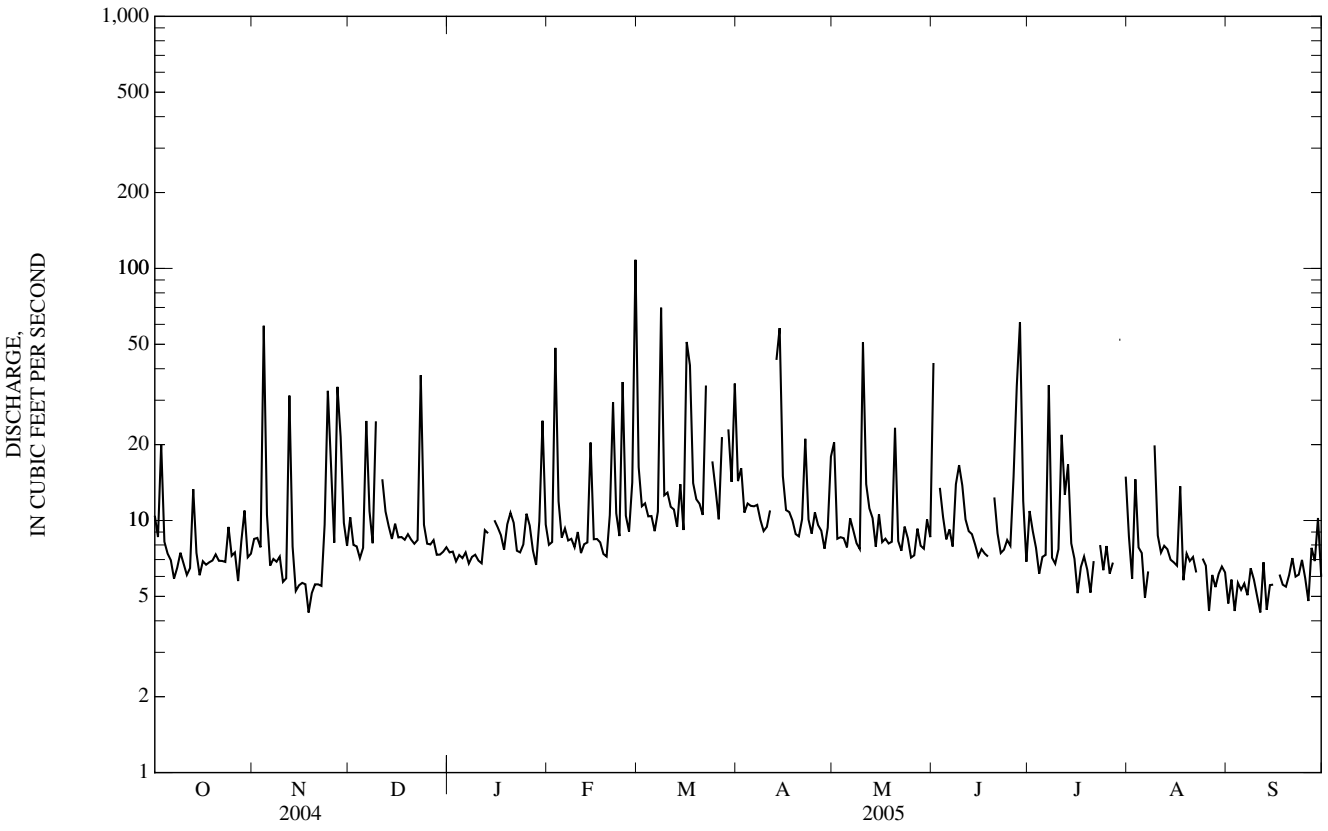
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	8.5	10	7.5	8.0	16	14	20	42	11	8.6	4.7
2	8.6	8.5	8.0	7.5	8.2	11	16	8.5	---	9.1	5.9	5.8
3	20	7.8	7.9	6.9	48	12	11	8.6	13	7.8	15	4.4
4	8.2	59	7.1	7.3	12	10	12	8.5	10	6.2	7.8	5.7
5	7.4	11	7.8	7.1	8.5	10	11	7.8	8.4	7.2	7.4	5.3
6	7.0	6.6	25	7.5	9.3	9.1	11	10	9.2	7.3	4.9	5.6
7	5.9	7.0	11	6.7	8.3	11	12	9.1	7.9	34	6.3	5.1
8	6.5	6.9	8.1	7.2	8.5	70	10	8.1	14	7.1	---	6.5
9	7.5	7.2	25	7.3	7.8	13	9.1	7.7	17	6.7	20	5.8
10	6.7	5.7	---	6.9	9.0	13	9.4	51	14	7.7	8.7	5.0
11	6.1	5.9	15	6.8	7.4	11	11	14	10	22	7.5	4.3
12	6.5	31	11	9.2	8.1	11	---	11	9.1	13	7.9	6.8
13	13	7.9	9.5	8.9	8.2	9.4	43	10	8.8	17	7.7	4.4
14	7.4	5.3	8.5	---	20	14	e58	7.9	8.0	8.1	7.0	5.5
15	6.1	5.5	9.7	10	8.4	9.2	e15	11	e7.2	7.0	6.8	5.6
16	6.9	5.7	8.6	9.4	8.4	51	e11	8.2	e7.7	5.2	6.6	---
17	6.7	5.6	8.6	8.8	8.2	41	e11	8.5	7.4	6.5	14	6.1
18	6.8	4.3	8.4	7.7	7.4	14	e10	8.1	7.2	7.2	5.8	5.6
19	6.9	5.2	8.8	9.7	7.2	12	8.8	8.2	---	6.4	7.4	5.5
20	7.3	5.6	8.4	11	11	12	8.7	23	12	5.2	6.9	6.1
21	6.9	5.6	8.1	9.8	29	11	10	8.3	8.9	6.9	7.2	7.1
22	6.9	5.5	8.4	7.6	11	34	21	7.6	7.4	---	6.2	6.0
23	6.8	9.6	38	7.5	8.7	---	10	9.5	7.7	8.0	---	6.1
24	9.4	33	9.6	8.0	35	17	8.9	8.5	8.4	6.4	7.1	7.0
25	7.2	17	8.1	11	10	13	11	7.1	7.9	7.9	6.6	5.9
26	7.5	8.2	8.0	9.5	9.0	10	9.6	7.3	15	6.2	4.4	4.8
27	5.8	34	8.4	7.6	14	21	9.1	9.3	34	6.8	6.1	7.8
28	8.3	21	7.3	6.7	108	---	7.7	7.9	61	---	5.4	6.9
29	11	9.8	7.3	9.9	---	23	9.4	7.7	12	52	6.1	10
30	7.1	7.9	7.5	25	---	14	18	10	6.9	---	6.6	6.0
31	7.4	---	7.8	9.6	---	35	---	8.6	---	15	6.2	---

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
LOWEST DAILY MEAN	4.3	Nov 18	4.3	Nov 18	3.7	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	5.3	Nov 14	5.2	Sep 1	4.7	Sep 7, 2002
MAXIMUM PEAK STAGE			10.63	Jul 30	13.14	Jun 7, 2003
INSTANTANEOUS LOW FLOW			2.6*	Sep 1	1.8*	Aug 1, 2002

* See REMARKS.
e Estimated.

02146285 STEWART CREEK AT WEST MOREHEAD STREET AT CHARLOTTE, NC—Continued



02146300 IRWIN CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'52", long 80°54'16", Mecklenburg County, Hydrologic Unit 03050103, on left bank at sewage-disposal plant of city of Charlotte, 2,200 ft upstream from Southern Railway bridge, 0.7 mi upstream from Taggart Creek, and 4.2 mi southwest of city hall, Charlotte.

DRAINAGE AREA.--30.7 mi^2.

PERIOD OF RECORD.--May 1962 to current year. Prior to October 1963, published as "Sugar (Irwin) Creek at Charlotte".

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 590.87 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges which are poor. Maximum discharge for period of record from rating curve extended above 7,500 ft^3/s on basis of step-backwater computation. Minimum discharge for period of record also occurred July 14, 1986. Minimum discharge for current water year also occurred Sept. 14, 15.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 6, 1936, reached a stage of about 17.3 ft at site 400 ft downstream, from information by plant employee. Peak may have been affected by failure of Lakewood Dam, 5 mi upstream. Flood of Jan. 6, 1962, reached a stage of 14.32 ft, from floodmarks; discharge, 4,120 ft^3/s. Flood of April 11, 1962, reached a stage of 15.18 ft, from floodmarks; discharge, 4,740 ft^3/s, on basis of slope-area measurement of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	11	19	13	16	48	39	52	92	36	17	6.9
2	17	11	13	13	15	27	44	18	273	17	12	8.7
3	41	14	12	13	132	23	26	16	30	13	48	6.6
4	18	131	12	13	31	21	25	17	19	11	21	7.5
5	13	23	12	13	20	20	24	15	15	11	20	7.1
6	13	12	56	13	18	18	23	20	20	12	10	7.7
7	11	12	27	13	17	19	27	16	59	81	10	6.7
8	11	11	14	12	17	176	24	15	25	17	257	8.4
9	12	11	43	12	16	31	22	15	31	11	99	7.2
10	12	9.6	341	12	18	25	20	158	47	12	24	6.9
11	11	9.9	32	12	15	22	22	59	27	43	17	5.4
12	11	78	20	14	15	21	180	47	16	21	e15	8.2
13	49	21	17	14	16	19	147	30	15	44	e12	6.7
14	13	12	14	246	52	32	185	17	14	15	e25	6.3
15	10	11	15	25	21	18	41	20	12	11	e16	6.2
16	11	11	14	19	17	136	30	15	12	9.0	e12	65
17	9.9	11	14	17	18	118	26	14	12	9.5	43	12
18	11	9.6	13	15	15	34	25	14	11	11	11	8.0
19	10	10	14	17	15	26	23	13	107	9.2	12	7.6
20	11	11	13	18	20	23	21	66	20	8.0	10	6.9
21	10	10	13	18	79	21	20	15	13	8.9	12	9.2
22	11	10	13	15	27	79	53	13	12	40	9.8	7.7
23	10	25	96	15	18	258	28	15	11	17	157	7.1
24	15	77	21	14	105	45	18	13	12	9.4	16	8.1
25	11	36	16	19	26	30	20	11	11	11	12	7.6
26	11	14	14	18	20	23	19	12	33	9.4	8.3	6.5
27	9.7	62	14	14	24	39	18	13	54	11	9.6	8.3
28	12	62	13	13	314	653	17	12	177	95	8.5	8.3
29	16	17	13	17	---	62	18	11	28	221	9.4	16
30	11	14	13	69	---	35	48	20	13	499	10	9.4
31	11	---	13	22	---	100	---	13	---	45	9.8	---
TOTAL	440.6	757.1	954	758	1,117	2,202	1,233	785	1,221	1,368.4	953.4	294.2
MEAN	14.2	25.2	30.8	24.5	39.9	71.0	41.1	25.3	40.7	44.1	30.8	9.81
MAX	49	131	341	246	314	653	185	158	273	499	257	65
MIN	9.7	9.6	12	12	15	18	17	11	11	8.0	8.3	5.4
CFSM	0.46	0.82	1.00	0.80	1.30	2.31	1.34	0.82	1.33	1.44	1.00	0.32
IN.	0.53	0.92	1.16	0.92	1.35	2.67	1.49	0.95	1.48	1.66	1.16	0.36

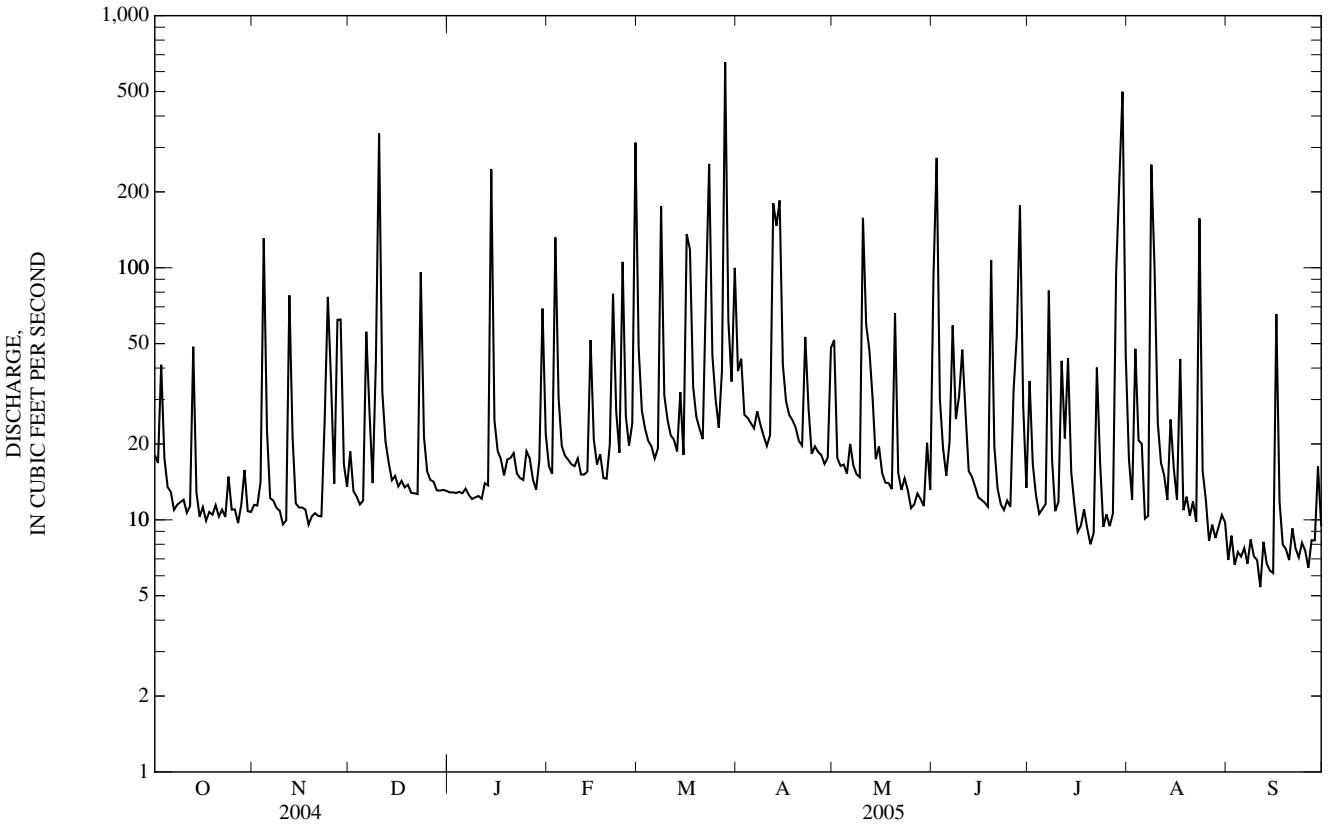
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	36.6	35.0	40.0	56.0	61.9	69.6	44.3	41.3	38.1	35.4	34.3	33.7
MAX	157	137	107	123	124	161	139	204	134	215	118	135
(WY)	(1991)	(1986)	(1984)	(1993)	(1979)	(1993)	(2003)	(1975)	(2003)	(1997)	(1995)	(1975)
MIN	7.35	9.32	10.2	13.4	20.1	18.5	14.9	14.0	6.95	6.67	7.97	6.00
(WY)	(2001)	(1982)	(1966)	(1981)	(2002)	(1985)	(1981)	(1986)	(1986)	(1986)	(1987)	(1983)

02146300 IRWIN CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	13,736.4		12,083.7			
ANNUAL MEAN	37.5		33.1		43.9	
HIGHEST ANNUAL MEAN					85.4	2003
LOWEST ANNUAL MEAN					24.0	1981
HIGHEST DAILY MEAN	818	Sep 7	653	Mar 28	5,010	Jul 23, 1997
LOWEST DAILY MEAN	8.2	Jul 15	5.4	Sep 11	3.1	Sep 25, 1983
ANNUAL SEVEN-DAY MINIMUM	9.7	Aug 4	6.7	Sep 9	3.5	Oct 5, 1993
MAXIMUM PEAK FLOW			3,510	Jul 30	11,600*	Jul 23, 1997
MAXIMUM PEAK STAGE			12.18	Jul 30	20.38	Jul 23, 1997
INSTANTANEOUS LOW FLOW			4.3*	Sep 11	2.8*	Jul 13, 1986
ANNUAL RUNOFF (CFSM)	1.22		1.08		1.43	
ANNUAL RUNOFF (INCHES)	16.64		14.64		19.44	
10 PERCENT EXCEEDS	64		62		79	
50 PERCENT EXCEEDS	14		15		18	
90 PERCENT EXCEEDS	9.9		9.5		8.6	

* See REMARKS.
e Estimated



02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'24", long 80°55'19", Mecklenburg County, Hydrologic Unit 03050103, on right bank at northeast corner of intersection of Billy Graham Parkway and NC Highway 160 (West Blvd), 1.2 mi upstream of confluence with Irwin Creek, and 5.0 mi from city hall, Charlotte.

DRAINAGE AREA.--5.38 mi^2.

PERIOD OF RECORD.--July 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage 604.27 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow for part of Aug. 8, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1.3	e0.80	1.7	1.1	1.9	5.1	5.0	6.8	16	1.4	1.3	0.82
2	e1.4	e0.80	0.72	1.0	1.8	3.3	4.9	1.8	42	1.3	1.0	0.77
3	e2.5	e1.4	0.64	1.1	24	2.3	2.8	1.5	3.0	1.2	0.88	0.62
4	e1.3	e9.3	0.60	1.2	3.9	2.1	2.4	1.3	1.9	1.2	0.88	0.57
5	e1.0	1.9	0.56	1.0	2.5	2.0	2.2	1.3	1.5	1.0	0.83	0.53
6	e1.2	0.81	9.9	1.1	1.9	1.9	2.1	2.5	18	0.91	0.65	0.65
7	e1.0	0.65	2.6	1.1	1.8	1.9	2.7	1.4	11	9.1	0.76	0.56
8	e0.90	0.84	0.85	1.1	1.7	27	3.3	1.3	4.0	1.4	58	0.55
9	e0.90	1.1	7.2	1.1	1.7	3.6	2.2	1.2	4.0	0.87	10	0.52
10	e1.0	0.99	67	1.1	1.7	2.6	1.9	12	2.6	0.89	2.1	0.52
11	e0.90	1.1	3.7	1.1	1.5	2.2	1.9	3.7	1.6	4.0	1.2	0.46
12	e0.90	12	2.2	1.2	1.5	2.2	36	6.1	1.5	1.4	11	0.53
13	e14	1.8	1.7	1.2	1.6	2.2	18	3.3	1.5	2.4	1.9	0.49
14	e1.6	0.76	1.4	42	6.7	5.4	28	1.8	1.1	1.1	1.0	0.55
15	e1.0	0.72	1.3	3.6	2.4	2.0	4.3	2.9	0.99	0.86	0.81	0.56
16	e0.90	0.63	1.2	2.6	1.7	28	3.1	2.2	0.92	0.80	0.72	11
17	e0.90	0.65	1.2	2.0	1.5	17	2.5	1.4	0.92	0.76	5.9	0.63
18	e0.80	0.67	1.2	1.8	1.4	4.4	2.3	1.2	0.91	0.71	0.95	0.24
19	e0.90	0.69	1.2	1.7	1.4	3.2	2.1	1.1	28	0.63	0.76	0.19
20	e0.90	0.69	1.2	1.8	2.7	2.5	1.9	8.8	2.3	0.55	0.58	0.18
21	e0.90	0.61	1.1	1.7	12	2.3	1.8	1.7	1.5	0.54	0.55	0.16
22	e1.0	0.65	1.1	1.7	3.1	18	6.7	1.3	1.3	0.53	0.59	0.15
23	e1.0	2.8	18	1.7	2.0	52	2.8	1.2	1.2	0.64	42	0.16
24	e1.3	14	2.5	1.5	14	5.5	1.7	1.1	1.1	0.53	2.5	0.13
25	e1.0	3.5	1.4	1.7	3.2	3.7	1.7	1.1	1.0	0.59	1.6	0.14
26	e1.0	0.89	1.2	2.0	2.1	2.9	1.6	1.0	2.4	0.68	1.3	0.19
27	e1.0	12	1.1	1.6	6.1	8.8	1.7	1.0	42	0.68	1.1	0.19
28	e1.1	5.5	1.0	1.5	61	118	1.6	1.0	35	15	0.88	0.16
29	e1.1	1.1	1.1	2.6	---	6.5	1.5	1.0	2.7	17	0.91	0.57
30	e1.3	0.77	1.1	e11	---	4.0	5.9	2.4	1.7	71	0.96	0.23
31	e1.1	---	1.1	e1.6	---	16	---	1.2	---	2.7	1.0	---
TOTAL	47.10	80.12	138.77	98.5	168.8	358.6	156.6	77.6	233.64	142.37	154.61	23.02
MEAN	1.52	2.67	4.48	3.18	6.03	11.6	5.22	2.50	7.79	4.59	4.99	0.77
MAX	14	14	67	42	61	118	36	12	42	71	58	11
MIN	0.80	0.61	0.56	1.0	1.4	1.9	1.5	1.0	0.91	0.53	0.55	0.13
CFSM	0.28	0.50	0.83	0.59	1.12	2.15	0.97	0.47	1.45	0.85	0.93	0.14
IN.	0.33	0.55	0.96	0.68	1.17	2.48	1.08	0.54	1.62	0.98	1.07	0.16

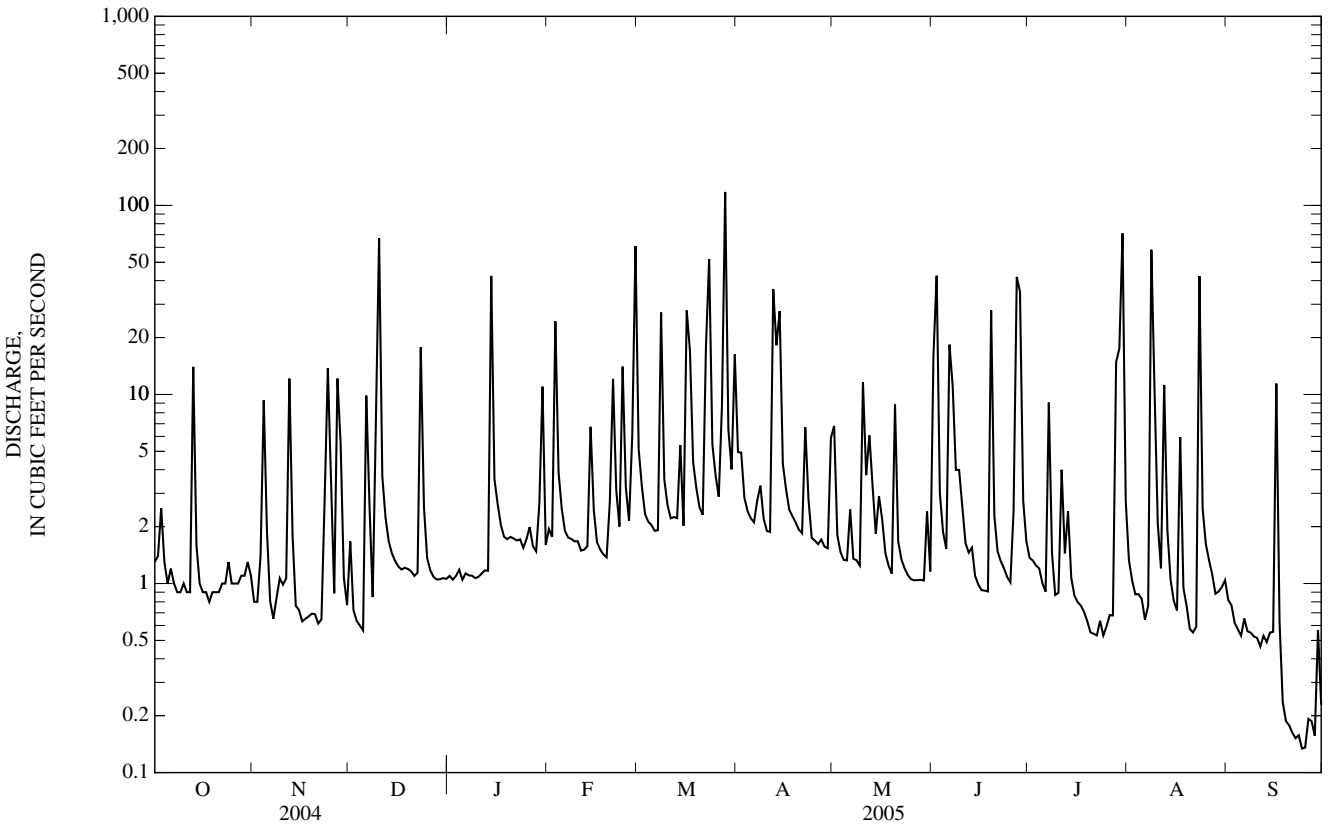
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	3.22	2.57	4.55	4.30	5.61	8.31	6.49	6.12	6.01	4.28	5.68	4.76
MAX	9.39	6.61	14.1	6.97	8.83	20.5	22.1	30.0	16.4	9.59	22.1	12.3
(WY)	(2003)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.35	0.65	1.48	2.05	2.26	2.91	1.25	1.36	0.99	1.03	0.20	0.77
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(2001)	(2001)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	2,094.88		1,679.73			
ANNUAL MEAN	5.72		4.60		5.20	
HIGHEST ANNUAL MEAN					14.1	2003
LOWEST ANNUAL MEAN					2.35	2001
HIGHEST DAILY MEAN	157	Jul 17	118	Mar 28	388	May 22, 2003
LOWEST DAILY MEAN	0.24	Jul 16	0.13	Sep 24	0.01	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	0.52	May 20	0.16	Sep 19	0.08	Aug 3, 2002
MAXIMUM PEAK FLOW			759	Aug 8	2,660	Jun 7, 2003
MAXIMUM PEAK STAGE			6.17	Aug 8	10.45	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.09	Sep 24	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	1.06		0.855		0.966	
ANNUAL RUNOFF (INCHES)	14.49		11.61		13.13	
10 PERCENT EXCEEDS	10		11		9.4	
50 PERCENT EXCEEDS	1.5		1.4		1.3	
90 PERCENT EXCEEDS	0.55		0.63		0.26	

* See REMARKS.
e Estimated.

02146315 TAGGART CREEK AT WEST BOULEVARD NEAR CHARLOTTE, NC—Continued



02146348 COFFEY CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'45", long 80°55'37", Mecklenburg County, Hydrologic Unit 03050103 on left bank at culvert on State Highway 49, 1.2 mi upstream from mouth, and 7.5 mi southwest of Charlotte.

DRAINAGE AREA.--9.14 mi^2.

PERIOD OF RECORD.-- October 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 565.72 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record from rating curve extended above 950 ft^3/s. Minimum discharge for period of record also occurred July 13, 2002. Minimum discharge for current water year also occurred Sept. 20, 22.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	1.3	4.1	2.6	3.3	13	14	11	15	3.9	5.0	1.1
2	2.4	1.2	2.6	2.6	2.7	6.4	11	3.5	92	3.3	3.0	0.98
3	6.9	1.7	2.5	2.5	41	4.7	7.2	2.7	9.6	1.9	1.7	0.78
4	2.9	29	2.3	3.0	11	3.9	5.7	2.3	4.5	1.6	2.2	0.68
5	2.4	5.6	2.2	2.5	5.8	3.5	5.1	2.2	3.1	1.4	5.2	0.61
6	2.6	2.2	13	2.5	4.4	3.1	4.6	3.0	3.6	1.8	1.6	0.57
7	2.5	1.8	8.8	2.2	3.9	3.0	5.5	2.1	21	16	1.4	0.57
8	1.9	1.6	4.5	2.2	3.8	32	5.2	2.5	22	4.6	38	0.81
9	1.5	1.5	12	2.1	3.4	6.0	4.4	2.1	6.4	1.9	54	0.68
10	1.5	1.6	110	2.0	3.1	4.3	3.7	5.9	7.8	1.5	7.8	0.56
11	1.4	1.5	12	2.3	2.8	3.8	3.5	7.8	3.6	3.4	3.8	0.47
12	1.4	16	6.7	2.4	3.2	3.3	42	11	2.3	2.9	8.1	0.50
13	14	5.6	6.6	2.7	3.4	3.0	59	19	2.4	2.5	6.0	0.53
14	3.3	2.4	4.1	77	9.8	6.2	71	3.7	1.9	1.7	2.0	0.53
15	2.4	1.8	3.6	6.3	5.1	2.9	11	3.6	1.6	1.4	1.7	0.59
16	2.3	1.6	3.2	4.7	3.3	37	7.0	5.6	1.4	1.0	1.4	4.1
17	1.7	1.6	2.9	3.4	2.7	28	5.6	2.2	1.4	1.3	13	1.3
18	1.7	1.6	2.8	2.9	2.5	8.4	4.8	2.1	1.4	2.8	4.7	0.55
19	1.7	1.6	2.7	2.8	2.3	5.4	4.3	1.9	38	1.2	2.0	0.36
20	1.7	1.7	2.4	2.9	3.0	4.3	3.9	17	5.9	1.3	1.4	0.49
21	1.6	1.7	2.4	2.8	19	3.7	3.5	3.7	3.2	0.92	1.2	0.54
22	1.5	1.7	2.3	2.6	6.6	19	9.9	2.5	2.1	1.9	1.0	0.40
23	1.5	6.2	26	2.5	3.7	85	6.7	2.1	3.0	1.1	35	0.43
24	2.1	26	6.0	2.2	25	13	3.5	1.9	1.6	0.82	6.6	0.45
25	1.6	9.3	4.0	2.4	5.8	7.7	3.0	1.9	1.5	0.89	2.3	0.74
26	1.3	3.1	3.3	2.4	3.9	6.0	2.8	1.9	8.7	0.90	1.8	0.50
27	1.2	12	2.9	2.2	4.1	8.3	2.8	1.9	38	0.86	1.5	0.58
28	1.2	21	2.7	1.9	109	266	2.7	1.9	82	7.3	1.3	0.57
29	1.4	4.3	2.7	2.4	---	26	2.4	1.8	9.3	62	1.1	4.6
30	1.5	3.1	2.7	17	---	12	10	5.4	3.4	66	1.4	1.9
31	1.3	---	2.7	5.5	---	33	---	2.3	---	12	1.8	---
TOTAL	76.1	171.3	266.7	175.5	297.6	661.9	325.8	138.5	397.7	212.09	219.0	27.47
MEAN	2.45	5.71	8.60	5.66	10.6	21.4	10.9	4.47	13.3	6.84	7.06	0.92
MAX	14	29	110	77	109	266	71	19	92	66	54	4.6
MIN	1.2	1.2	2.2	1.9	2.3	2.9	2.4	1.8	1.4	0.82	1.0	0.36
CFSM	0.27	0.62	0.94	0.62	1.16	2.34	1.19	0.49	1.45	0.75	0.77	0.10
IN.	0.31	0.70	1.09	0.71	1.21	2.69	1.33	0.56	1.62	0.86	0.89	0.11

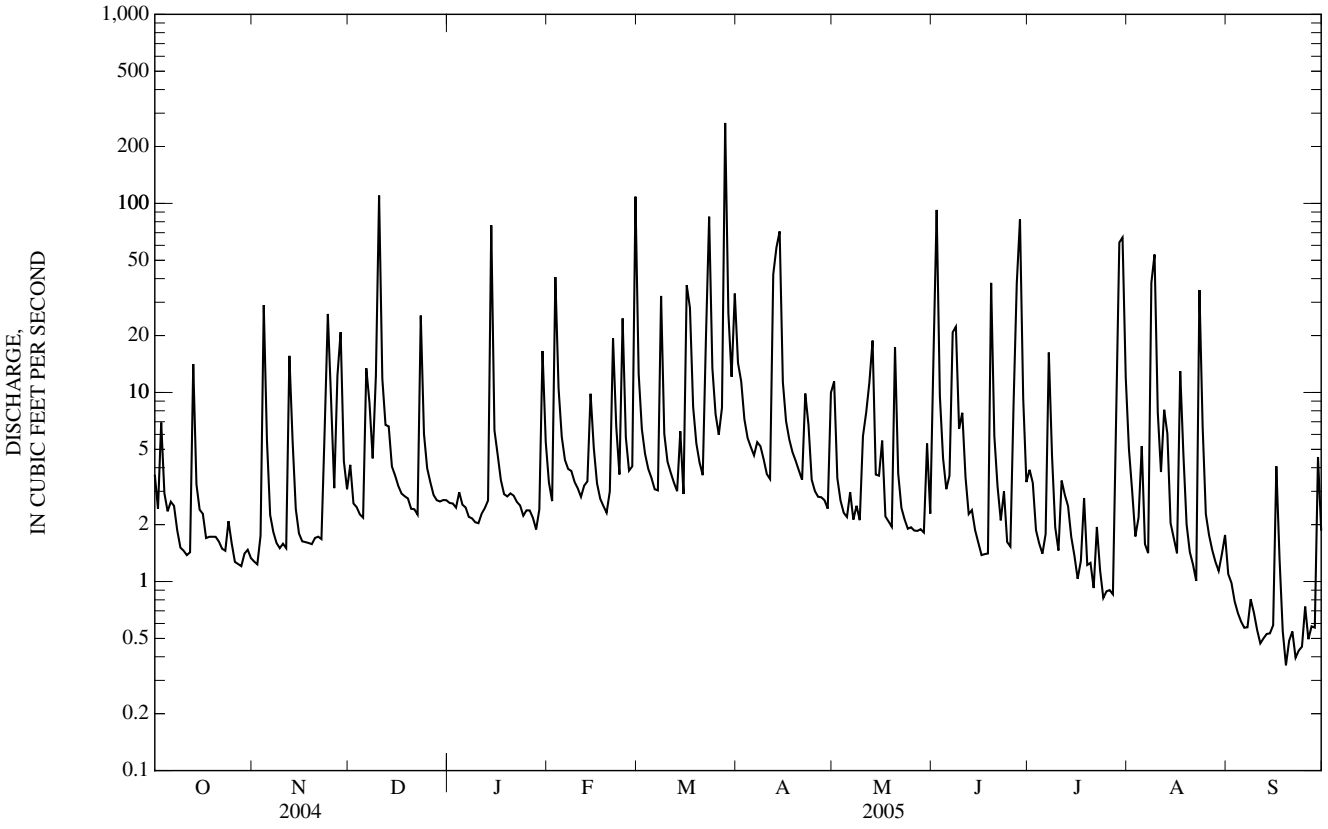
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	5.24	4.82	7.71	7.96	10.1	15.8	13.9	10.8	10.6	6.38	8.44	7.93
MAX	15.0	14.7	23.8	12.4	14.4	35.5	45.7	51.6	27.9	12.9	30.8	19.6
(WY)	(2000)	(2003)	(2003)	(2002)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.88	1.81	2.74	1.94	3.93	5.17	2.85	2.97	1.63	2.51	0.44	0.92
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(1999)	(2001)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	3,293.51		2,969.66			
ANNUAL MEAN	9.00		8.14		9.13	
HIGHEST ANNUAL MEAN					23.6	2003
LOWEST ANNUAL MEAN					4.84	2002
HIGHEST DAILY MEAN	173	Jul 18	266	Mar 28	626	May 22, 2003
LOWEST DAILY MEAN	0.72	May 30	0.36	Sep 19	0.05	Aug 28, 2001
ANNUAL SEVEN-DAY MINIMUM	0.98	Aug 4	0.46	Sep 18	0.09	Aug 23, 2001
MAXIMUM PEAK FLOW			703	Mar 28	1,440*	Jun 8, 2003
MAXIMUM PEAK STAGE			9.89	Mar 28	11.75	Jun 8, 2003
INSTANTANEOUS LOW FLOW			0.33*	Sep 19	0.02*	Sep 20, 2001
ANNUAL RUNOFF (CFSM)	0.985		0.890		0.999	
ANNUAL RUNOFF (INCHES)	13.40		12.09		13.57	
10 PERCENT EXCEEDS	17		16		17	
50 PERCENT EXCEEDS	2.7		2.8		2.6	
90 PERCENT EXCEEDS	1.3		1.2		0.70	

* See REMARKS.

02146348 COFFEY CREEK NEAR CHARLOTTE, NC—Continued



0214635212 CRN28

LOCATION.--Lat 35°06'57", long 80°54'49", Mecklenburg County, Hydrologic Unit 03050103, unnamed tributary to Sugar Creek at Crompton Street, Charlotte, NC.

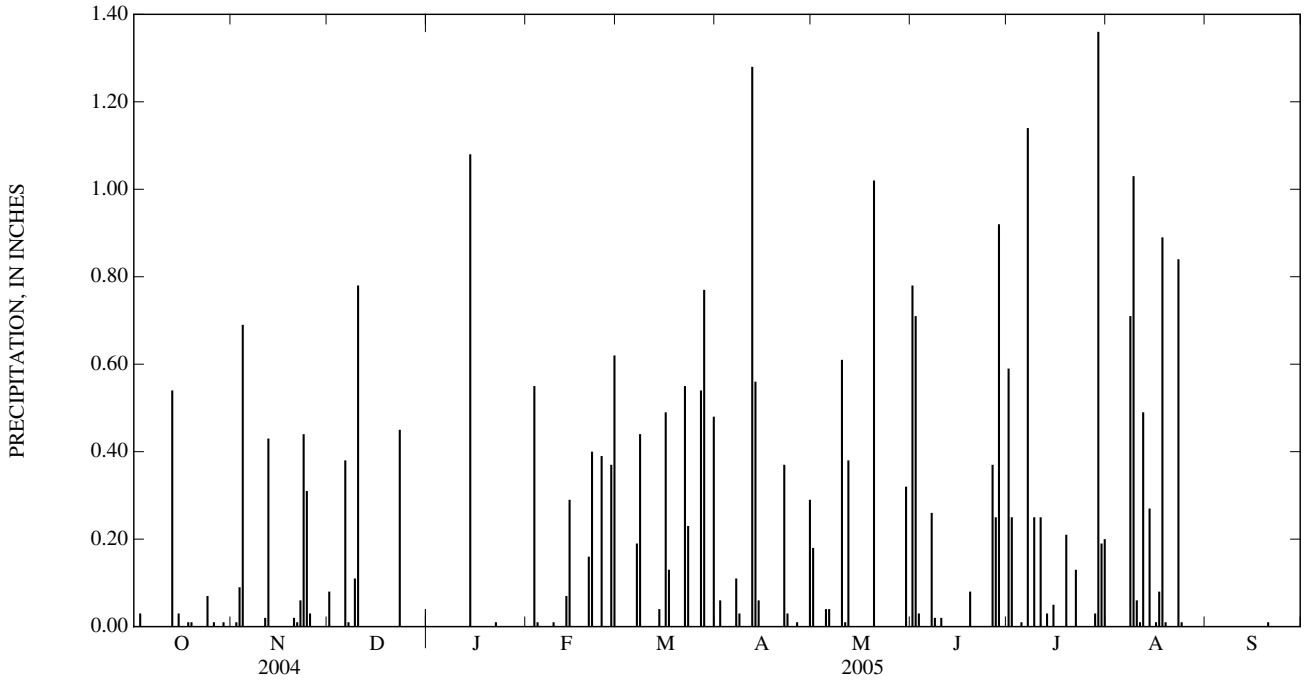
PERIOD OF RECORD.--April 1995 to current year. Records for period April 1995 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.18	0.78	0.59	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.71	0.25	0.00	0.00
3	0.03	0.09	0.00	0.00	0.55	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.69	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.01	0.00	0.00
6	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.19	0.11	0.00	0.26	1.14	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	0.03	0.00	0.02	0.00	0.71	0.00
9	0.00	0.00	0.11	0.00	0.01	0.00	0.00	0.00	0.00	0.25	1.03	0.00
10	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.61	0.02	0.00	0.06	0.00
11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.25	0.01	0.00
12	0.00	0.43	0.00	0.00	0.00	0.00	1.28	0.38	0.00	0.00	0.49	0.00
13	0.54	0.00	0.00	0.00	0.07	0.00	0.56	0.00	0.00	0.03	0.00	0.00
14	0.00	0.00	0.00	1.08	0.29	0.04	0.06	0.00	0.00	0.00	0.27	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.01	0.00
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.08	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.89	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.21	0.01	0.00
20	0.00	0.02	0.00	0.00	0.16	0.00	0.00	1.02	0.00	0.00	0.00	0.01
21	0.00	0.01	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.06	0.00	0.01	0.00	0.55	0.37	0.00	0.00	0.13	0.00	0.00
23	0.00	0.44	0.45	0.00	0.00	0.23	0.03	0.00	0.00	0.00	0.84	0.00
24	0.07	0.31	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	---	0.00	0.00	0.00	0.00	0.01	0.00	0.37	0.00	0.00	0.00
27	0.00	---	0.00	0.00	0.37	0.54	0.00	0.00	0.25	0.00	0.00	0.00
28	0.00	---	0.00	0.00	0.62	0.77	0.00	0.00	0.92	0.03	0.00	0.00
29	0.01	---	0.00	---	---	0.00	0.00	0.00	0.00	1.36	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.29	0.32	0.00	0.19	0.00	0.00
31	0.00	---	0.00	0.00	---	0.48	---	0.00	---	0.20	0.00	---
TOTAL	0.71	---	1.81	---	2.87	3.86	2.80	2.60	3.44	4.69	4.41	0.01



02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC

LOCATION.--Lat 35°05'27", long 80°53'58", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of bridge at N.C. Highway 51, 0.3 mi upstream from McCullough Branch, and 0.6 mi northwest of city hall, Pineville.

DRAINAGE AREA.--65.3 mi^2.

PERIOD OF RECORD.-- Occasional discharge measurements, water years 1978-94. October 1994 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 520.95 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. A daily average of 15.2 ft^3/s of treated effluent from Irwin Creek wastewater treatment plant was discharged into the stream above the gage. Maximum discharge for period of record from rating curve extended above 9,710 ft^3/s. Minimum discharge for period of record also occurred Aug. 31, 2001. Minimum discharge for current water year also occurred Sept. 12.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	28	40	36	43	131	155	117	81	99	60	26
2	48	28	35	35	43	68	114	53	574	101	44	26
3	60	32	32	35	216	55	78	44	101	49	37	25
4	65	189	31	36	107	51	67	43	54	35	76	24
5	37	95	30	37	56	46	62	41	45	34	43	23
6	37	39	47	35	47	43	59	49	42	34	40	25
7	34	33	115	35	45	43	62	41	117	166	36	25
8	33	31	39	32	42	258	62	39	116	110	163	24
9	31	30	58	32	41	85	58	38	63	42	494	25
10	31	29	651	33	42	58	49	55	73	35	94	24
11	31	29	117	38	40	50	51	237	58	38	55	22
12	32	89	61	38	38	48	115	58	36	82	72	23
13	132	99	51	39	39	44	493	131	35	49	69	24
14	44	35	48	474	74	58	425	49	36	59	56	23
15	33	31	43	91	80	44	119	45	34	32	68	24
16	31	31	43	57	43	188	75	50	32	30	37	61
17	29	30	41	47	43	244	61	40	32	29	97	61
18	31	29	38	44	39	93	57	41	30	31	89	26
19	30	28	37	44	38	59	54	39	125	35	42	24
20	31	28	36	46	38	49	50	178	80	31	34	23
21	30	28	37	45	132	46	48	68	41	27	32	26
22	28	28	36	42	92	59	58	43	35	40	31	24
23	30	63	153	39	48	484	117	38	33	63	360	23
24	33	92	76	39	173	129	49	43	33	28	92	23
25	33	127	43	42	78	69	46	39	31	27	48	23
26	29	39	39	44	51	54	e47	37	51	28	34	22
27	29	38	38	39	46	52	e44	37	89	25	30	23
28	28	196	40	37	576	1,400	47	37	397	52	28	24
29	32	48	40	37	---	212	43	35	104	508	29	29
30	30	37	38	124	---	111	92	53	45	544	28	40
31	28	---	37	70	---	197	---	42	---	149	30	---
TOTAL	1,187	1,659	2,170	1,822	2,350	4,528	2,857	1,860	2,623	2,612	2,448	815
MEAN	38.3	55.3	70.0	58.8	83.9	146	95.2	60.0	87.4	84.3	79.0	27.2
MAX	132	196	651	474	576	1,400	493	237	574	544	494	61
MIN	28	28	30	32	38	43	43	35	30	25	28	22
CFSM	0.59	0.85	1.07	0.90	1.29	2.24	1.46	0.92	1.34	1.29	1.21	0.42
IN.	0.68	0.95	1.24	1.04	1.34	2.58	1.63	1.06	1.49	1.49	1.39	0.46

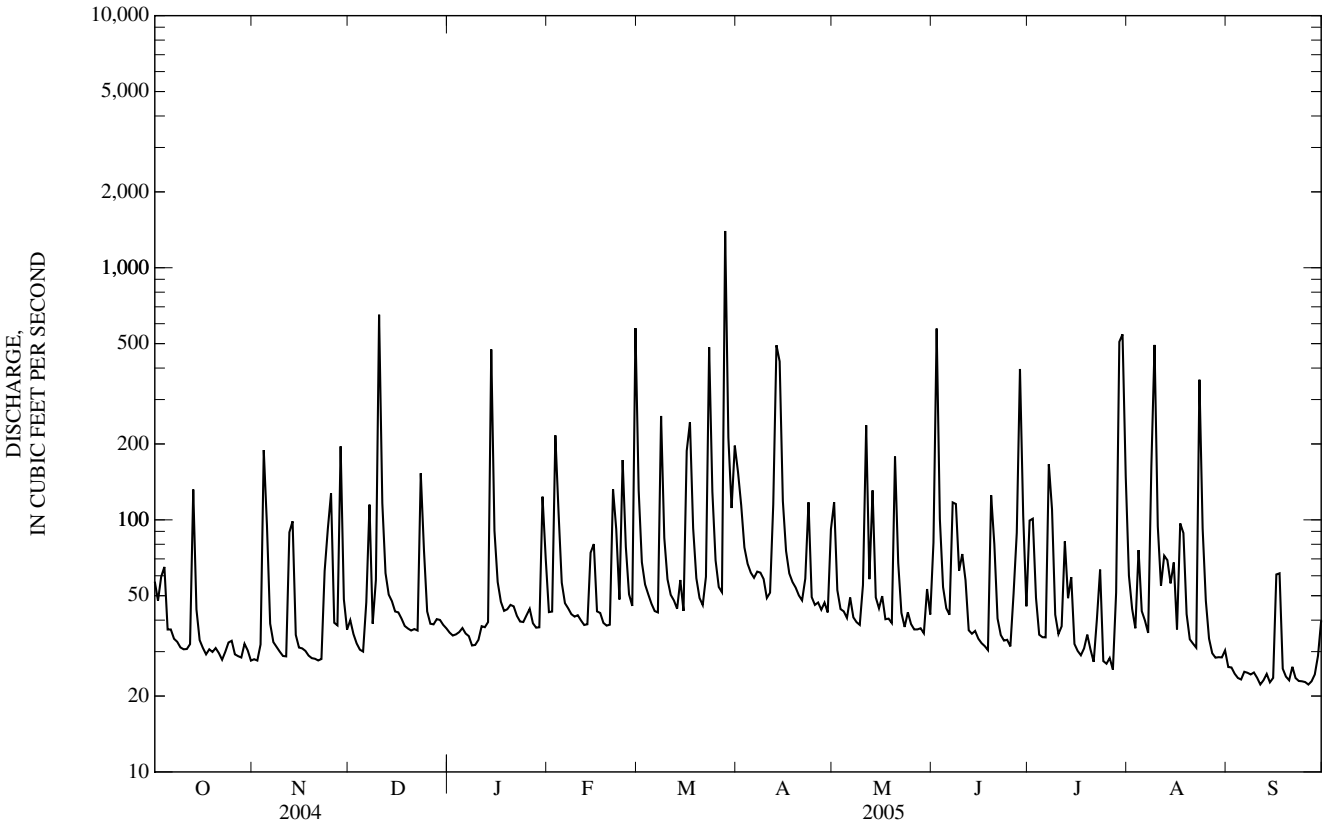
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	76.1	69.4	77.7	108	120	129	118	89.2	94.8	99.2	78.4	78.4
MAX	154	182	174	237	232	296	321	380	271	315	171	208
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	25.7	33.5	40.6	39.9	49.7	55.7	41.0	34.2	32.7	43.0	24.8	27.2
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2000)	(2002)	(2001)	(2001)	(2005)

02146381 SUGAR CREEK AT NC 51 NEAR PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	30,107		26,931			
ANNUAL MEAN	82.3		73.8		94.7	
HIGHEST ANNUAL MEAN					186	2003
LOWEST ANNUAL MEAN					57.3	2001
HIGHEST DAILY MEAN	2,160	Sep 8	1,400	Mar 28	4,790	Jul 23, 1997
LOWEST DAILY MEAN	26	Sep 5	22	Sep 11	18	Aug 1, 2001
ANNUAL SEVEN-DAY MINIMUM	29	Nov 16	23	Sep 22	21	Sep 7, 2002
MAXIMUM PEAK FLOW			2,720	Mar 28	9,890*	Jul 23, 1997
MAXIMUM PEAK STAGE			11.53	Mar 28	18.68	Jul 23, 1997
INSTANTANEOUS LOW FLOW			18*	Sep 11	15*	Aug 10, 1997
ANNUAL RUNOFF (CFSM)	1.26		1.13		1.45	
ANNUAL RUNOFF (INCHES)	17.15		15.34		19.70	
10 PERCENT EXCEEDS	146		124		158	
50 PERCENT EXCEEDS	40		43		43	
90 PERCENT EXCEEDS	30		28		27	

* See REMARKS.
e Estimated.



0214640410 LITTLE SUGAR CREEK BELOW 36TH STREET NEAR CHARLOTTE, NC

LOCATION.--Lat 35°15'01", long 80°48'30", Mecklenburg County, Hydrologic Unit 03050103, on left bank 150 yards below 36th street, and approximately 150 yards above Norfolk Southern railway bridge and culvert, 1.9 mi southeast of city hall in Charlotte.

DRAINAGE AREA.--3.42 mi^2.

PERIOD OF RECORD.--December 2004 to September 2005.

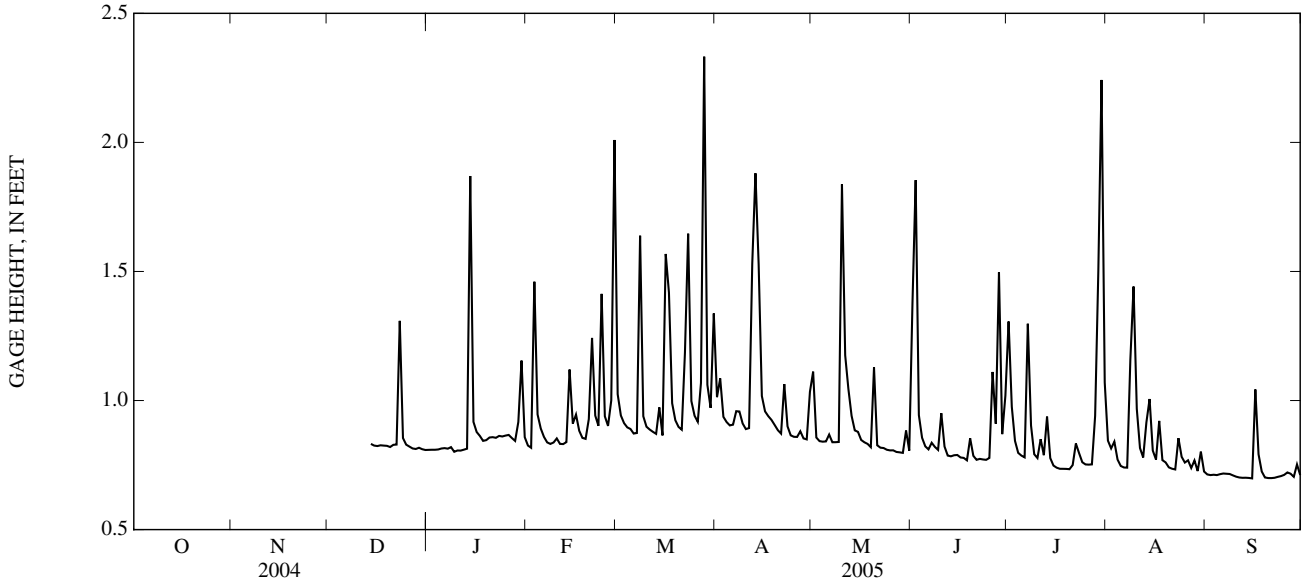
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 672.517 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.43 ft, July 30, 2005; minimum gage height, 0.66 ft, Sept. 20, 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	0.81	0.83	1.02	1.01	1.11	1.38	1.31	0.84	0.71
2	---	---	---	0.81	0.82	0.94	1.09	0.86	1.85	0.98	0.81	0.71
3	---	---	---	0.81	1.46	0.91	0.94	0.84	0.94	0.84	0.84	0.71
4	---	---	---	0.81	0.95	0.90	0.92	0.84	0.86	0.80	0.77	0.71
5	---	---	---	0.81	0.89	0.89	0.90	0.84	0.82	0.79	0.75	0.71
6	---	---	---	0.82	0.86	0.87	0.91	0.87	0.81	0.78	0.74	0.72
7	---	---	---	0.81	0.84	0.87	0.96	0.84	0.84	1.30	0.74	0.72
8	---	---	---	0.82	0.83	1.64	0.96	0.84	0.82	0.90	1.16	0.72
9	---	---	---	0.80	0.84	0.94	0.91	0.84	0.81	0.79	1.44	0.71
10	---	---	---	0.81	0.85	0.90	0.89	1.84	0.95	0.78	0.97	0.71
11	---	---	---	0.81	0.83	0.89	0.89	1.18	0.82	0.85	0.82	0.70
12	---	---	---	0.81	0.83	0.88	1.53	1.05	0.79	0.79	0.78	0.70
13	---	---	---	0.81	0.84	0.87	1.88	0.94	0.78	0.94	0.92	0.70
14	---	---	0.83	1.87	1.12	0.97	1.53	0.88	0.79	0.78	1.01	0.70
15	---	---	0.83	0.92	0.91	0.86	1.02	0.88	0.79	0.75	0.81	0.70
16	---	---	0.82	0.88	0.95	1.57	0.96	0.85	0.78	0.74	0.77	1.04
17	---	---	0.83	0.86	0.88	1.42	0.94	0.84	0.78	0.74	0.92	0.79
18	---	---	0.83	0.84	0.86	0.99	0.92	0.83	0.77	0.74	0.77	0.73
19	---	---	0.82	0.85	0.85	0.92	0.91	0.82	0.85	0.74	0.76	0.70
20	---	---	0.82	0.86	0.93	0.90	0.89	1.13	0.79	0.73	0.74	0.70
21	---	---	0.83	0.86	1.24	0.89	0.87	0.83	0.77	0.75	0.74	0.70
22	---	---	0.83	0.86	0.94	1.19	1.06	0.82	0.77	0.83	0.73	0.70
23	---	---	1.31	0.86	0.90	1.65	0.90	0.82	0.77	0.80	0.85	0.70
24	---	---	0.85	0.86	1.41	1.00	0.87	0.81	0.77	0.76	0.78	0.71
25	---	---	0.83	0.86	0.94	0.94	0.86	0.81	0.78	0.75	0.76	0.71
26	---	---	0.82	0.87	0.90	0.92	0.86	0.81	1.11	0.75	0.77	0.72
27	---	---	0.81	0.85	1.00	1.07	0.88	0.80	0.91	0.75	0.74	0.72
28	---	---	0.81	0.84	2.01	2.33	0.85	0.80	1.50	0.94	0.77	0.70
29	---	---	0.82	0.92	---	1.06	0.85	0.80	0.87	1.50	0.73	0.75
30	---	---	0.81	1.15	---	0.97	1.03	0.88	1.02	2.24	0.80	0.71
31	---	---	0.81	0.86	---	1.34	---	0.81	---	1.07	0.72	---
MEAN	---	---	---	0.88	0.98	1.08	1.00	0.91	0.91	0.91	0.83	0.72
MAX	---	---	---	1.87	2.01	2.33	1.88	1.84	1.85	2.24	1.44	1.04
MIN	---	---	---	0.80	0.82	0.86	0.85	0.80	0.77	0.73	0.72	0.70



02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°12'13", long 80°50'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge at Medical Center Drive, 3.3 mi upstream from Briar Creek, and 1.3 mi south of city hall in Charlotte.

DRAINAGE AREA.--11.8 mi^2.

PERIOD OF RECORD.--October 1994 to current year. Fragmentary records 1964-1966, in files of Geological Survey as "Little Sugar Creek at Brunswick Avenue at Charlotte".

REVISED RECORDS.--WDR NC-96-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 612.82 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred on Aug. 8-14, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.5	5.1	7.6	4.4	6.5	13	12	28	64	53	11	2.9
2	7.5	5.6	4.6	4.4	6.8	9.2	20	5.9	124	9.3	7.5	2.8
3	21	8.2	4.4	4.4	71	8.2	8.8	5.5	9.8	5.2	23	2.6
4	7.4	68	4.3	4.4	12	7.7	e9.0	5.6	6.3	4.5	9.8	2.7
5	5.9	8.1	4.1	4.4	8.9	8.1	e8.5	5.2	5.3	4.5	5.2	2.5
6	5.7	5.5	36	4.7	8.4	7.0	7.2	6.6	18	4.3	4.7	3.0
7	5.5	5.3	9.7	4.7	8.1	7.1	11	5.1	56	100	4.3	3.0
8	5.3	5.0	5.1	4.4	8.1	90	8.6	4.9	7.1	8.3	85	3.3
9	5.3	5.0	14	4.3	8.1	9.1	7.9	4.9	9.5	4.8	174	3.1
10	5.3	4.7	113	4.4	8.6	7.7	6.7	180	19	4.4	26	3.1
11	5.2	5.0	8.4	4.4	7.8	7.1	6.5	25	7.7	18	8.7	2.7
12	5.3	56	6.3	4.4	7.2	6.4	117	56	4.7	6.4	6.3	2.8
13	58	7.2	5.3	4.4	7.8	6.2	89	11	4.7	34	9.0	2.9
14	6.3	4.2	5.2	160	34	16	68	6.2	4.6	19	31	2.9
15	6.8	4.1	5.6	8.8	9.6	6.3	11	6.6	4.4	3.8	8.4	2.8
16	5.6	4.1	5.3	7.3	8.1	80	8.9	5.5	4.4	3.5	5.2	50
17	5.0	4.1	5.3	6.7	10	52	8.1	5.3	4.1	3.5	33	7.7
18	5.0	4.0	5.1	6.3	6.7	11	7.9	5.2	4.1	3.6	4.7	3.4
19	5.2	3.9	5.0	6.2	5.8	8.6	7.3	5.0	5.1	5.0	4.4	3.3
20	5.3	4.0	5.0	6.4	10	7.8	6.9	39	4.8	14	3.7	3.2
21	5.1	3.8	5.1	6.2	40	7.3	6.8	5.4	3.9	5.3	3.4	3.2
22	5.0	3.9	5.0	6.1	9.3	50	31	4.7	3.9	43	3.0	3.1
23	5.1	12	48	5.9	6.9	96	9.7	5.0	3.8	8.1	149	3.0
24	7.9	48	7.1	5.9	57	12	6.4	4.8	3.8	3.9	6.4	2.7
25	5.5	12	5.4	6.0	9.2	8.8	6.3	4.7	3.7	3.6	3.5	2.7
26	5.1	4.9	5.9	6.0	7.5	7.9	6.5	4.8	19	3.3	3.1	2.9
27	5.2	36	6.8	5.6	17	26	6.5	4.6	7.2	3.2	2.9	5.4
28	6.3	20	5.2	5.4	137	222	6.0	4.4	108	55	3.1	3.1
29	6.2	5.3	4.6	8.9	---	15	5.4	4.4	7.0	178	3.4	12
30	5.2	4.8	4.4	35	---	9.9	26	10	9.0	393	5.9	4.5
31	5.0	---	4.4	8.1	---	55	---	4.7	---	32	4.0	---
TOTAL	245.7	367.8	361.2	358.5	537.4	878.4	540.9	474.0	536.9	1,037.5	652.6	153.3
MEAN	7.93	12.3	11.7	11.6	19.2	28.3	18.0	15.3	17.9	33.5	21.1	5.11
MAX	58	68	113	160	137	222	117	180	124	393	174	50
MIN	5.0	3.8	4.1	4.3	5.8	6.2	5.4	4.4	3.7	3.2	2.9	2.5
CFSM	0.67	1.04	0.99	0.98	1.63	2.40	1.53	1.30	1.52	2.84	1.78	0.43
IN.	0.77	1.16	1.14	1.13	1.69	2.77	1.71	1.49	1.69	3.27	2.06	0.48

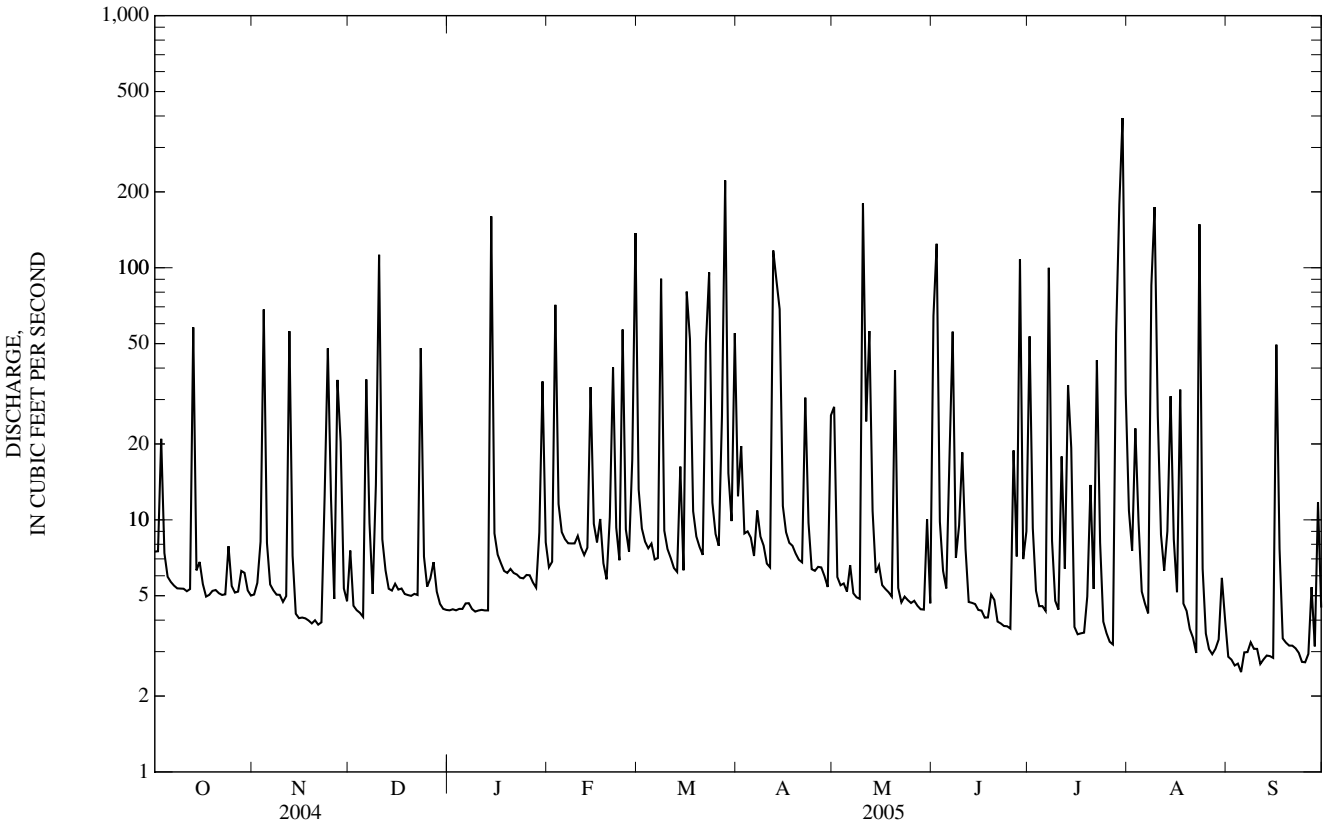
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)

MEAN	14.5	12.3	13.2	20.7	22.3	22.6	21.7	17.3	18.6	25.0	19.2	19.5
MAX	28.9	30.3	35.0	48.5	36.9	54.8	57.3	70.8	57.3	81.8	50.0	61.5
(WY)	(1996)	(1996)	(2003)	(1998)	(1995)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	3.88	3.85	6.02	5.94	6.73	8.45	4.67	4.37	3.38	9.61	4.65	5.11
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(1999)	(1997)	(2005)

02146409 LITTLE SUGAR CREEK AT MEDICAL CENTER DRIVE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005	
ANNUAL TOTAL	6,922.5		6,144.2			
ANNUAL MEAN	18.9		16.8		18.9	
HIGHEST ANNUAL MEAN					37.0	2003
LOWEST ANNUAL MEAN					10.3	2002
HIGHEST DAILY MEAN	498	Sep 7	393	Jul 30	1,970	Jul 23, 1997
LOWEST DAILY MEAN	2.5	Jun 12	2.5	Sep 5	1.0	Aug 11, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	May 21	2.8	Sep 1	1.1	Aug 7, 2002
MAXIMUM PEAK FLOW			3,290	Jul 30	5,310	Jul 23, 1997
MAXIMUM PEAK STAGE			12.12	Jul 30	14.83	Jul 23, 1997
INSTANTANEOUS LOW FLOW			2.2	Sep 5	1.0*	Aug 7, 2002
ANNUAL RUNOFF (CFSM)	1.60		1.43		1.60	
ANNUAL RUNOFF (INCHES)	21.82		19.37		21.76	
10 PERCENT EXCEEDS	36		41		36	
50 PERCENT EXCEEDS	5.4		6.2		5.6	
90 PERCENT EXCEEDS	4.0		3.6		2.7	

* See REMARKS.
e Estimated.



02146420 LITTLE SUGAR CREEK AT HILLSIDE AVENUE NEAR CHARLOTTE, NC

LOCATION.--Lat 35°10'45", long 80°50'47", Mecklenburg County, Hydrologic Unit 03050103, on right upstream end of bridge on Hillside Avenue, 1.8 mi upstream from Briar Creek, 3 mi south of city hall in Charlotte, NC.

DRAINAGE AREA.--15.0 mi^2.

PERIOD OF RECORD.--May 2005 to September 2005.

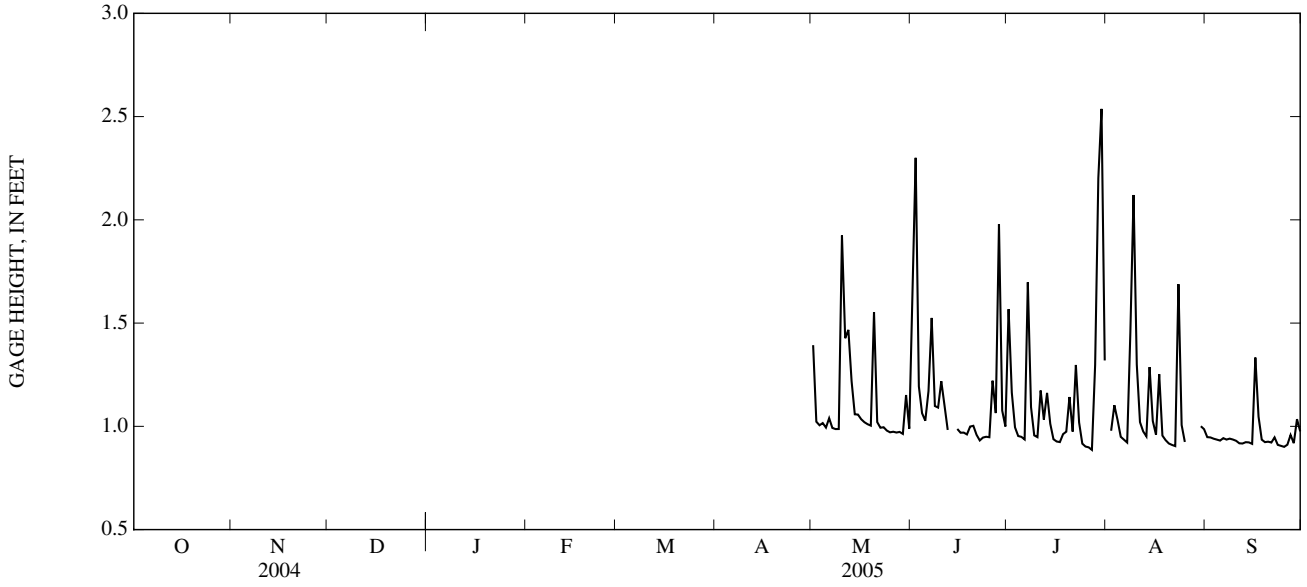
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 595.41 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 9.67 ft, July 30, 2005; minimum gage height, 0.86 ft, July 27, 28, 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	1.39	1.64	1.57	---	0.95
2	---	---	---	---	---	---	---	1.02	2.30	1.16	0.98	0.95
3	---	---	---	---	---	---	---	1.01	1.19	1.00	1.10	0.94
4	---	---	---	---	---	---	---	1.02	1.06	0.95	1.03	0.94
5	---	---	---	---	---	---	---	0.99	1.03	0.95	0.95	0.93
6	---	---	---	---	---	---	---	1.04	1.17	0.94	0.94	0.94
7	---	---	---	---	---	---	---	0.99	1.53	1.70	0.92	0.94
8	---	---	---	---	---	---	---	0.99	1.10	1.09	1.45	0.94
9	---	---	---	---	---	---	---	0.99	1.09	0.96	2.12	0.94
10	---	---	---	---	---	---	---	1.92	1.22	0.95	1.30	0.93
11	---	---	---	---	---	---	---	1.43	1.10	1.17	1.02	0.92
12	---	---	---	---	---	---	---	1.47	0.98	1.03	0.98	0.92
13	---	---	---	---	---	---	---	1.22	---	1.16	0.95	0.92
14	---	---	---	---	---	---	---	1.06	---	1.01	1.29	0.92
15	---	---	---	---	---	---	---	1.06	0.99	0.94	1.03	0.92
16	---	---	---	---	---	---	---	1.03	0.97	0.93	0.96	1.33
17	---	---	---	---	---	---	---	1.02	0.97	0.92	1.25	1.05
18	---	---	---	---	---	---	---	1.01	0.96	0.96	0.96	0.94
19	---	---	---	---	---	---	---	1.00	1.00	0.97	0.93	0.92
20	---	---	---	---	---	---	---	1.55	1.00	1.14	0.92	0.93
21	---	---	---	---	---	---	---	1.02	0.96	0.97	0.91	0.92
22	---	---	---	---	---	---	---	0.99	0.93	1.30	0.90	0.95
23	---	---	---	---	---	---	---	1.00	0.95	1.02	1.69	0.91
24	---	---	---	---	---	---	---	0.98	0.95	0.92	1.01	0.91
25	---	---	---	---	---	---	---	0.97	0.95	0.90	0.92	0.90
26	---	---	---	---	---	---	---	0.97	1.22	0.90	---	0.91
27	---	---	---	---	---	---	---	0.97	1.06	0.89	---	0.96
28	---	---	---	---	---	---	---	0.97	1.98	1.30	---	0.92
29	---	---	---	---	---	---	---	0.96	1.08	2.20	---	1.03
30	---	---	---	---	---	---	---	1.15	1.00	2.54	1.00	0.98
31	---	---	---	---	---	---	---	0.99	---	1.32	0.99	---
MEAN	---	---	---	---	---	---	---	1.10	---	1.15	---	0.95
MAX	---	---	---	---	---	---	---	1.92	---	2.54	---	1.33
MIN	---	---	---	---	---	---	---	0.96	---	0.89	---	0.90



0214642825 BRIAR CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°14'10", long 80°46'16", Mecklenburg County, Hydrologic Unit 03050103, 400 ft upstream from bridge on Shamrock Drive, and 4 mi northwest of city hall in Charlotte.

DRAINAGE AREA.--5.2 mi^2.

PERIOD OF RECORD.--April 1998 to current year.

REVISED RECORDS.--WDR NC-2003-1B: 1998-2002.

GAGE.--Water-stage recorder, crest-stage gage and concrete control. Datum of gage is 672.00 ft, North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record and current water year from rating curve extended above 800 ft^3/s by culvert computation of peak flow. No flow occurrs most years. Minimum discharge for current water year also occurred Sept. 17, 18, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	1.8	2.5	1.9	2.7	5.6	5.5	7.3	15	130	2.5	0.47
2	1.3	1.9	1.7	2.1	2.6	3.8	6.1	2.0	31	7.5	1.2	0.50
3	2.6	2.5	1.7	2.0	19	3.2	3.5	1.9	4.3	2.9	1.1	0.51
4	1.6	23	1.7	2.2	4.3	3.1	3.1	1.8	2.7	2.4	1.2	0.57
5	1.6	2.3	1.6	2.3	3.0	3.0	3.0	1.9	2.2	2.5	1.5	0.45
6	1.7	1.3	10	2.3	2.7	3.1	2.7	2.2	2.0	2.7	1.9	0.31
7	1.5	1.3	4.0	2.0	2.7	3.1	4.0	1.9	2.1	99	2.0	0.19
8	1.3	1.3	2.0	2.0	2.7	23	3.6	1.8	2.2	6.9	7.0	0.18
9	1.3	1.4	4.3	2.0	2.7	4.0	2.6	1.8	1.9	3.2	17	0.29
10	1.6	1.6	34	2.1	2.8	3.3	2.4	41	2.7	3.1	2.5	0.31
11	1.8	1.8	3.9	2.2	2.4	3.1	2.4	7.1	1.8	7.8	1.1	0.27
12	1.9	13	2.6	2.2	2.5	3.0	26	16	1.6	3.5	1.2	0.35
13	24	2.3	2.3	2.2	2.4	2.7	32	4.4	1.7	4.3	1.9	0.49
14	2.0	1.4	2.0	48	9.4	5.3	22	2.6	1.7	3.7	2.2	0.53
15	1.8	1.6	2.0	4.0	3.1	2.7	4.9	2.4	1.6	3.4	1.0	0.31
16	1.7	1.7	2.0	3.2	3.2	21	4.3	2.3	1.5	3.0	0.86	2.6
17	1.8	1.7	2.0	2.8	2.8	16	3.7	2.1	1.4	2.6	6.1	0.30
18	1.7	1.7	2.0	2.4	2.3	4.9	3.1	2.2	1.8	2.7	0.84	0.16
19	2.4	1.8	2.0	2.5	2.2	3.6	2.6	2.1	2.8	2.3	0.79	0.18
20	1.9	2.9	2.0	2.7	3.4	3.2	2.6	11	1.3	2.2	0.78	0.26
21	1.9	2.6	2.0	2.4	9.9	3.1	2.6	2.6	1.2	4.0	0.59	0.33
22	1.8	3.0	2.0	2.4	3.4	13	5.2	2.4	1.3	5.2	0.58	0.39
23	1.7	5.3	12	2.4	2.7	19	3.0	2.5	1.2	2.2	5.7	0.48
24	2.4	12	2.3	2.5	14	5.1	2.4	2.5	1.1	1.7	0.78	0.73
25	e2.0	4.3	1.8	2.9	3.5	3.5	2.4	2.6	1.0	1.8	0.33	0.86
26	e1.7	2.0	1.8	3.1	2.9	3.1	2.4	2.5	5.5	1.7	0.31	1.4
27	1.5	12	2.0	2.4	4.5	5.4	2.8	2.5	1.5	1.0	0.36	1.3
28	2.1	7.5	1.9	2.3	41	65	2.2	2.5	12	5.4	0.45	0.63
29	2.0	1.9	2.0	3.5	---	6.4	2.1	2.4	1.6	21	0.42	1.4
30	1.6	1.8	1.9	9.7	---	4.2	6.3	3.5	9.7	54	0.50	0.36
31	1.7	---	1.9	3.3	---	15	---	1.8	---	16	0.63	---
TOTAL	77.4	120.7	117.9	130.0	160.8	263.5	171.5	143.6	119.4	409.7	65.32	17.11
MEAN	2.50	4.02	3.80	4.19	5.74	8.50	5.72	4.63	3.98	13.2	2.11	0.57
MAX	24	23	34	48	41	65	32	41	31	130	17	2.6
MIN	1.3	1.3	1.6	1.9	2.2	2.7	2.1	1.8	1.0	1.0	0.31	0.16
CFSM	0.48	0.77	0.73	0.81	1.10	1.63	1.10	0.89	0.77	2.54	0.41	0.11
IN.	0.55	0.86	0.84	0.93	1.15	1.89	1.23	1.03	0.85	2.93	0.47	0.12

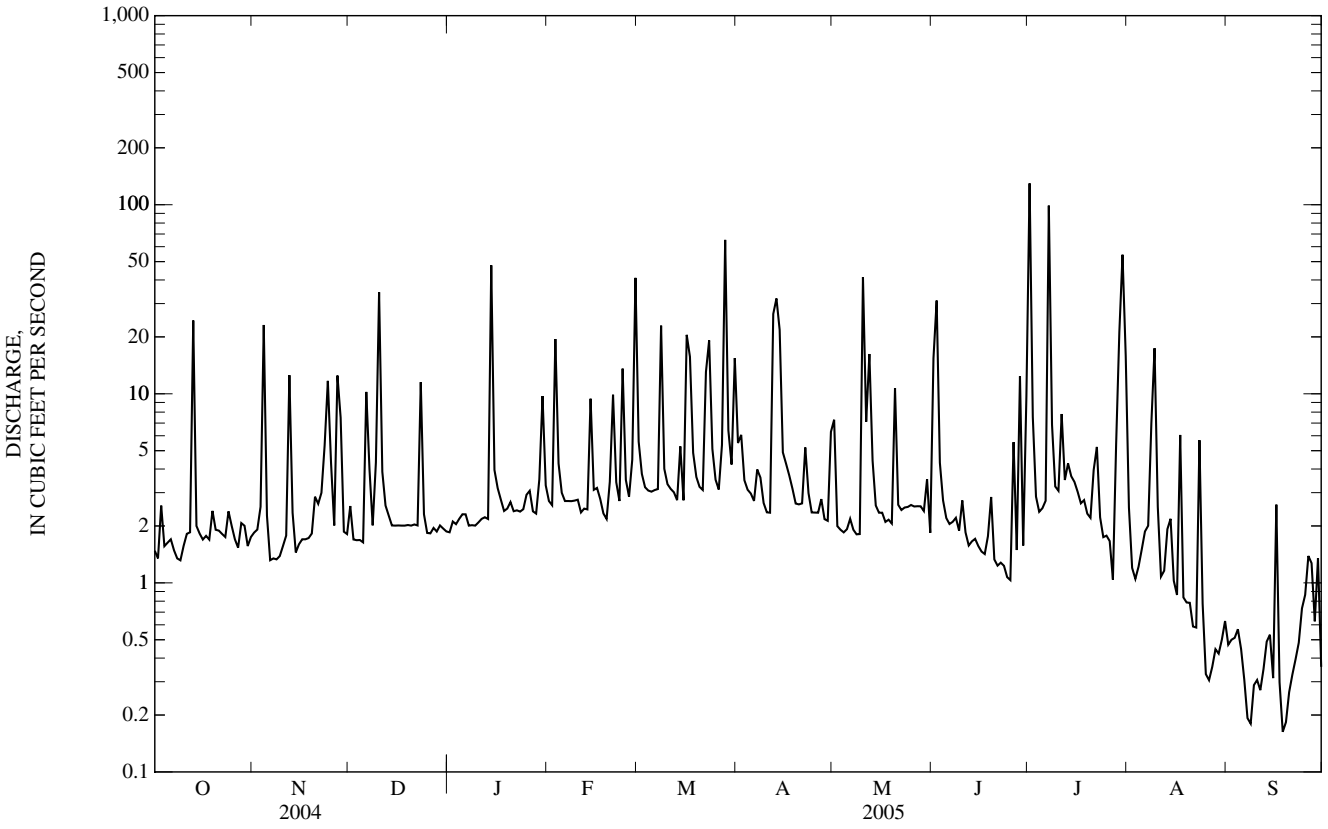
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	2.89	2.57	3.99	5.21	5.26	8.04	8.04	6.28	5.53	5.71	3.67	6.95
MAX	7.12	5.45	10.6	12.0	6.97	21.6	22.2	30.3	25.3	13.2	6.53	24.4
(WY)	(2000)	(2003)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2005)	(2004)	(2004)
MIN	0.41	0.44	1.08	1.68	1.78	2.78	1.36	1.70	0.33	1.36	0.29	0.57
(WY)	(2001)	(2002)	(2002)	(2004)	(2002)	(1999)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

0214642825 BRIAR CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	2,006.91		1,796.93			
ANNUAL MEAN	5.48		4.92		5.35	
HIGHEST ANNUAL MEAN					12.7	2003
LOWEST ANNUAL MEAN					1.96	2002
HIGHEST DAILY MEAN	271	Sep 28	130	Jul 1	386	May 22, 2003
LOWEST DAILY MEAN	0.21	Jul 25	0.16	Sep 18	0.00	Aug 17, 1999
ANNUAL SEVEN-DAY MINIMUM	0.43	May 21	0.27	Sep 6	0.00	Aug 4, 2002
MAXIMUM PEAK FLOW			1,250*	Jul 1	2,500*	Jun 7, 2003
MAXIMUM PEAK STAGE			5.69	Jul 1	7.44	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10*	Sep 15	0.00*	Aug 18, 1999
ANNUAL RUNOFF (CFSM)	1.05		0.947		1.03	
ANNUAL RUNOFF (INCHES)	14.36		12.85		13.99	
10 PERCENT EXCEEDS	8.7		9.7		9.3	
50 PERCENT EXCEEDS	1.7		2.4		1.7	
90 PERCENT EXCEEDS	0.69		0.79		0.20	

* See REMARKS.
e Estimated.



0214643770 BRIAR CREEK AT INDEPENDENCE BOULEVARD AT CHARLOTTE, NC

LOCATION.--Lat 35°12'39", long 80°48'03", Mecklenburg County, Hydrologic Unit 03050103, on upstream bank of Briar Creek, 4 ft inside of guardrail on the westbound lanes of Independence Boulevard (North Carolina Highway 74), .3 mi west of Briar Creek Road, and 2.3 mi southeast of city hall in Charlotte.

DRAINAGE AREA.--11.2 mi^2.

PERIOD OF RECORD.--May 2005 to September 2005.

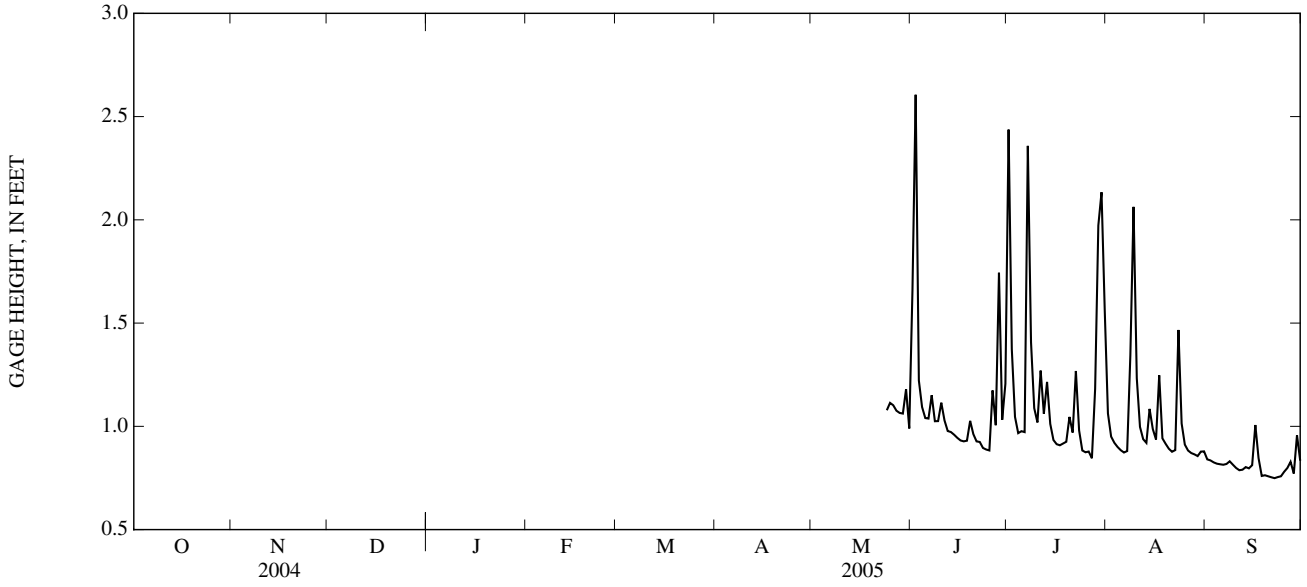
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 635.02 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 8.26 ft, July 1, 2005; minimum gage height, 0.73 ft, Sept. 21, 22, 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1.66	2.44	1.06	0.84
2	---	---	---	---	---	---	---	---	2.61	1.37	0.95	0.83
3	---	---	---	---	---	---	---	---	1.22	1.05	0.92	0.83
4	---	---	---	---	---	---	---	---	1.09	0.97	0.90	0.82
5	---	---	---	---	---	---	---	---	1.04	0.98	0.88	0.82
6	---	---	---	---	---	---	---	---	1.04	0.97	0.87	0.81
7	---	---	---	---	---	---	---	---	1.15	2.36	0.88	0.82
8	---	---	---	---	---	---	---	---	1.02	1.41	1.35	0.83
9	---	---	---	---	---	---	---	---	1.03	1.09	2.06	0.81
10	---	---	---	---	---	---	---	---	1.11	1.02	1.23	0.80
11	---	---	---	---	---	---	---	---	1.03	1.27	1.00	0.79
12	---	---	---	---	---	---	---	---	0.98	1.06	0.94	0.79
13	---	---	---	---	---	---	---	---	0.97	1.22	0.92	0.80
14	---	---	---	---	---	---	---	---	0.96	1.01	1.08	0.80
15	---	---	---	---	---	---	---	---	0.94	0.93	0.99	0.81
16	---	---	---	---	---	---	---	---	0.93	0.91	0.94	1.01
17	---	---	---	---	---	---	---	---	0.93	0.91	1.25	0.85
18	---	---	---	---	---	---	---	---	0.93	0.92	0.94	0.76
19	---	---	---	---	---	---	---	---	1.03	0.93	0.92	0.76
20	---	---	---	---	---	---	---	---	0.96	1.05	0.89	0.76
21	---	---	---	---	---	---	---	---	0.93	0.97	0.88	0.75
22	---	---	---	---	---	---	---	---	0.92	1.27	0.88	0.75
23	---	---	---	---	---	---	---	---	0.90	0.98	1.47	0.75
24	---	---	---	---	---	---	---	1.08	0.89	0.88	1.01	0.76
25	---	---	---	---	---	---	---	1.11	0.88	0.87	0.91	0.78
26	---	---	---	---	---	---	---	1.10	1.17	0.88	0.88	0.80
27	---	---	---	---	---	---	---	1.08	1.01	0.85	0.87	0.83
28	---	---	---	---	---	---	---	1.06	1.74	1.18	0.86	0.77
29	---	---	---	---	---	---	---	1.06	1.03	1.97	0.86	0.96
30	---	---	---	---	---	---	---	1.18	1.21	2.13	0.88	0.83
31	---	---	---	---	---	---	---	0.99	---	1.56	0.88	---
MEAN	---	---	---	---	---	---	---	---	1.11	1.21	1.01	0.81
MAX	---	---	---	---	---	---	---	---	2.61	2.44	2.06	1.01
MIN	---	---	---	---	---	---	---	---	0.88	0.85	0.86	0.75



0214643860 BRIAR CREEK BELOW EDWARDS BRANCH NEAR CHARLOTTE, NC

LOCATION.--Lat 35°12'22", long 80°48'21", Mecklenburg County, Hydrologic Unit 03050103, mounted to Doral Apartments leasing office on left bank, 900 ft below confluence of Briar Creek and Edwards Branch, 2.2 mi southeast of city hall in Charlotte, NC.

DRAINAGE AREA.--14.2 mi^2.

PERIOD OF RECORD.--August 2003 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 629.52 ft, above North American Vertical Datum of 1988. Radio telemetry at station.

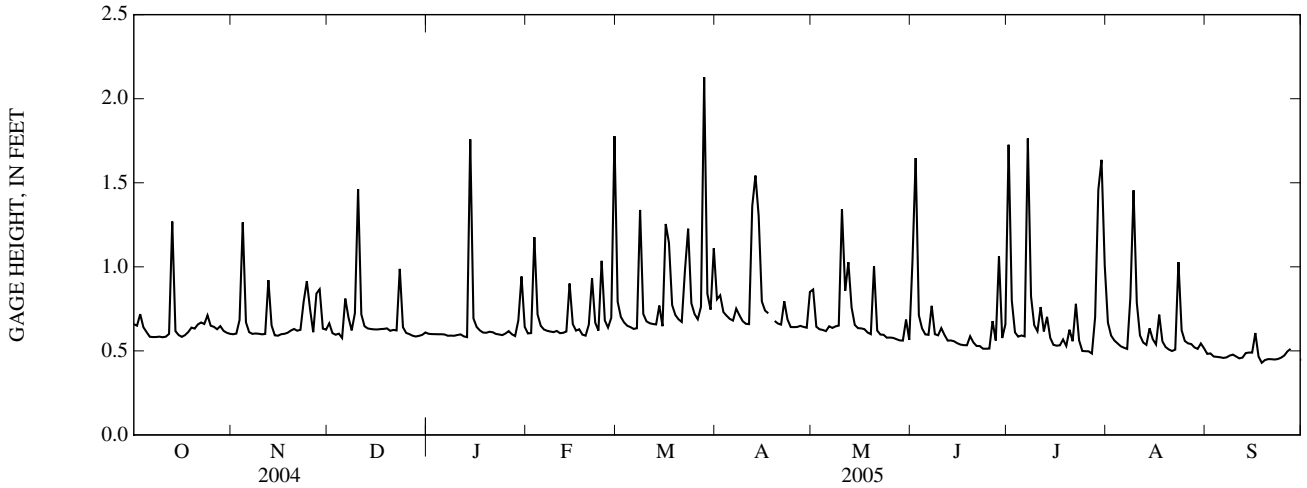
REMARKS.--Records good.

EXTEMES FOR PERIOD OF RECORD.--Maximum gage height 11.08, July 17, 2004; minimum gage height 0.39, Sept. 30, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height 8.46 , July 7; minimum gage height 0.39, Sept. 30.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.66	0.60	0.66	0.60	0.60	0.79	0.81	0.87	1.03	1.73	0.67	0.48
2	0.65	0.60	0.61	0.60	0.61	0.70	0.83	0.64	1.65	0.80	0.59	0.48
3	0.72	0.68	0.60	0.60	1.18	0.67	0.73	0.63	0.71	0.61	0.56	0.47
4	0.64	1.26	0.60	0.60	0.72	0.65	0.71	0.62	0.63	0.58	0.54	0.46
5	0.61	0.67	0.58	0.60	0.65	0.64	0.69	0.62	0.60	0.59	0.53	0.46
6	0.58	0.61	0.81	0.60	0.63	0.63	0.68	0.65	0.60	0.59	0.52	0.46
7	0.58	0.60	0.70	0.59	0.62	0.63	0.75	0.64	0.77	1.76	0.51	0.46
8	0.58	0.60	0.62	0.59	0.61	1.34	0.71	0.65	0.60	0.82	0.82	0.47
9	0.58	0.60	0.72	0.59	0.61	0.72	0.68	0.65	0.59	0.65	1.46	0.48
10	0.58	0.60	1.46	0.59	0.62	0.68	0.66	1.34	0.64	0.62	0.79	0.47
11	0.58	0.60	0.72	0.60	0.61	0.66	0.66	0.86	0.59	0.76	0.59	0.46
12	0.60	0.92	0.65	0.59	0.61	0.66	1.36	1.03	0.56	0.62	0.55	0.46
13	1.27	0.65	0.63	0.58	0.62	0.66	1.54	0.76	0.56	0.70	0.54	0.49
14	0.62	0.59	0.63	1.76	0.90	0.77	1.30	0.65	0.56	0.58	0.63	0.49
15	0.59	0.59	0.63	0.69	0.66	0.65	0.79	0.64	0.55	0.54	0.57	0.49
16	0.58	0.60	0.63	0.64	0.62	1.25	0.74	0.63	0.54	0.53	0.54	0.61
17	0.59	0.60	0.63	0.62	0.63	1.14	0.72	0.63	0.53	0.53	0.72	0.47
18	0.61	0.61	0.63	0.61	0.60	0.77	---	0.61	0.53	0.57	0.56	0.43
19	0.64	0.62	0.63	0.61	0.59	0.71	0.68	0.60	0.59	0.53	0.52	0.45
20	0.63	0.63	0.62	0.61	0.66	0.69	0.66	1.00	0.55	0.63	0.51	0.45
21	0.66	0.62	0.62	0.61	0.93	0.67	0.66	0.62	0.53	0.56	0.50	0.45
22	0.67	0.62	0.62	0.60	0.67	0.98	0.79	0.60	0.53	0.78	0.51	0.45
23	0.66	0.79	0.99	0.60	0.62	1.23	0.69	0.60	0.51	0.56	1.03	0.45
24	0.71	0.91	0.64	0.59	1.04	0.78	0.64	0.58	0.51	0.50	0.62	0.46
25	0.65	0.75	0.61	0.60	0.68	0.72	0.64	0.58	0.51	0.50	0.56	0.47
26	0.64	0.61	0.60	0.62	0.64	0.69	0.64	0.58	0.68	0.50	0.54	0.50
27	0.63	0.84	0.59	0.60	0.70	0.76	0.65	0.57	0.56	0.48	0.54	0.51
28	0.65	0.87	0.59	0.59	1.78	2.13	0.64	0.56	1.06	0.70	0.52	---
29	0.62	0.63	0.59	0.68	---	0.84	0.64	0.56	0.58	1.46	0.51	---
30	0.61	0.63	0.60	0.94	---	0.75	0.85	0.69	0.66	1.64	0.54	0.45
31	0.60	---	0.61	0.64	---	1.11	---	0.57	---	1.01	0.52	---
MEAN	0.64	0.68	0.67	0.66	0.73	0.84	---	0.68	0.65	0.76	0.62	---
MAX	1.27	1.26	1.46	1.76	1.78	2.13	---	1.34	1.65	1.76	1.46	---
MIN	0.58	0.59	0.58	0.58	0.59	0.63	---	0.56	0.51	0.48	0.50	---



02146449 BRIAR CREEK AT PROVIDENCE ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'57", long 80°49'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank upstream of culvert on North Carolina Highway 16, 2.75 mi south of city hall in Charlotte.

DRAINAGE AREA.--17.6 mi^2.

PERIOD OF RECORD.--October 2004 to September 2005.

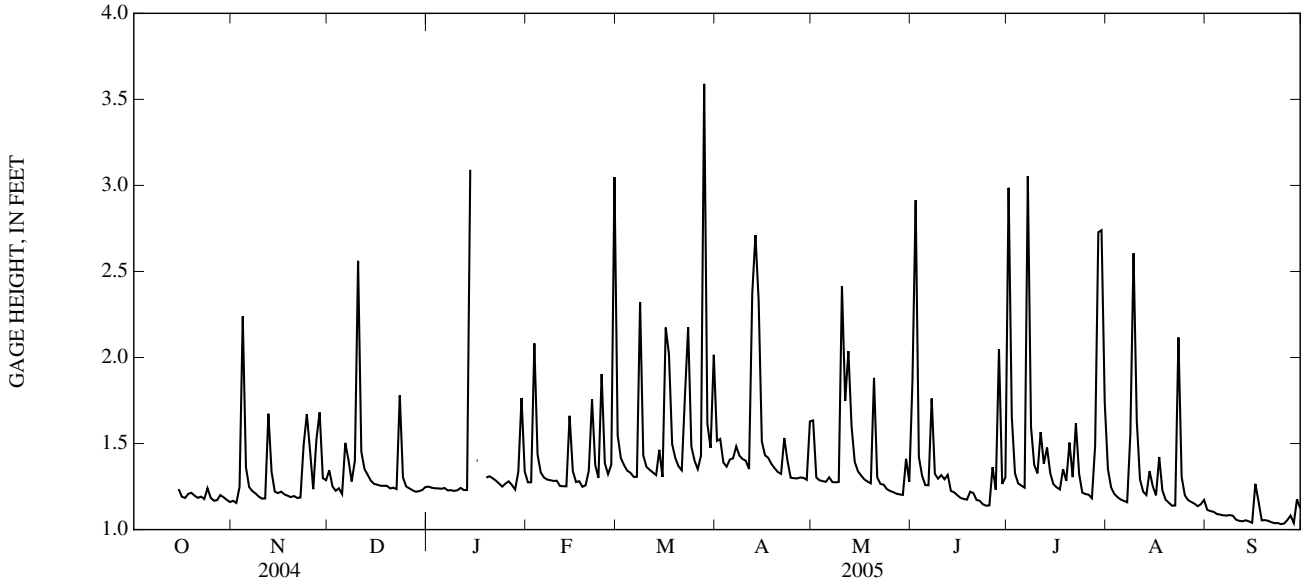
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 607.52 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 10.53 ft, July 7, 2005; minimum gage height, 1.00 ft, Sept. 25, 2005.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	1.17	1.34	1.25	1.27	1.55	1.52	1.63	1.87	2.99	1.35	1.11
2	---	1.15	1.25	1.24	1.27	1.42	1.53	1.30	2.91	1.66	1.24	1.11
3	---	1.25	1.23	1.24	2.08	1.37	1.39	1.29	1.42	1.33	1.21	1.10
4	---	2.24	1.24	1.24	1.44	1.34	1.37	1.28	1.31	1.27	1.19	1.09
5	---	1.36	1.21	1.24	1.33	1.33	1.41	1.28	1.26	1.26	1.17	1.09
6	---	1.25	1.50	1.24	1.30	1.31	1.41	1.30	1.26	1.24	1.17	1.08
7	---	1.22	1.40	1.23	1.29	1.31	1.48	1.28	1.76	3.05	1.16	1.08
8	---	1.21	1.28	1.23	1.29	2.32	1.43	1.27	1.32	1.60	1.56	1.08
9	---	1.19	1.40	1.22	1.28	1.43	1.41	1.28	1.30	1.38	2.61	1.08
10	---	1.18	2.56	1.23	1.28	1.36	1.40	2.41	1.32	1.33	1.63	1.06
11	---	1.18	1.45	1.24	1.25	1.35	1.35	1.75	1.29	1.57	1.29	1.05
12	---	1.67	1.35	1.23	1.25	1.33	2.37	2.04	1.32	1.38	1.22	1.05
13	---	1.34	1.32	1.23	1.25	1.32	2.71	1.60	1.22	1.48	1.20	1.05
14	---	1.22	1.28	3.09	1.66	1.46	2.33	1.39	1.22	1.33	1.34	1.05
15	1.24	1.21	1.27	---	1.34	1.31	1.51	1.34	1.20	1.26	1.25	1.04
16	1.19	1.22	1.26	1.40	1.28	2.17	1.43	1.31	1.18	1.25	1.20	1.27
17	1.18	1.20	1.26	---	1.28	2.02	1.42	1.29	1.18	1.23	1.42	1.16
18	1.21	1.20	1.25	---	1.25	1.50	1.38	1.28	1.17	1.35	1.23	1.05
19	1.21	1.19	1.25	1.30	1.26	1.42	1.36	1.27	1.22	1.28	1.17	1.06
20	1.20	1.20	1.24	1.31	1.34	1.37	1.33	1.88	1.21	1.51	1.16	1.05
21	1.18	1.18	1.24	1.30	1.76	1.34	1.32	1.30	1.17	1.30	1.14	1.04
22	1.19	1.19	1.24	1.28	1.38	1.78	1.53	1.27	1.17	1.62	1.14	1.04
23	1.18	1.49	1.78	1.27	1.30	2.18	1.40	1.26	1.15	1.32	2.12	1.04
24	1.24	1.67	1.30	1.25	1.90	1.48	1.30	1.24	1.14	1.21	1.31	1.03
25	1.18	1.46	1.25	1.27	1.39	1.40	1.30	1.22	1.14	1.21	1.20	1.04
26	1.17	1.23	1.24	1.28	1.32	1.35	1.30	1.22	1.36	1.20	1.17	1.06
27	1.17	1.53	1.23	1.26	1.38	1.43	1.30	1.21	1.23	1.18	1.16	1.08
28	1.20	1.68	1.22	1.23	3.05	3.59	1.30	1.20	2.05	1.49	1.15	1.04
29	1.19	1.30	1.22	1.34	---	1.62	1.29	1.20	1.27	2.73	1.14	1.18
30	1.17	1.29	1.23	1.76	---	1.47	1.63	1.41	1.30	2.74	1.15	1.12
31	1.16	---	1.25	1.34	---	2.02	---	1.28	---	1.74	1.17	---
MEAN	---	1.33	1.34	---	1.45	1.60	1.51	1.40	1.36	1.56	1.31	1.08
MAX	---	2.24	2.56	---	3.05	3.59	2.71	2.41	2.91	3.05	2.61	1.27
MIN	---	1.15	1.21	---	1.25	1.31	1.29	1.20	1.14	1.18	1.14	1.03



0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC

LOCATION.--Lat 35°10'31", long 80°49'51", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of third footbridge 900 feet upstream of Colony Road at Charlotte. Located within Myers Park Country Club.

DRAINAGE AREA.--19.0 mi^2.

PERIOD OF RECORD.--December 1995 to current year.

GAGE.--Water-stage recorder. Datum of gage is 598.02 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record 15.41 ft, from floodmarks. Maximum discharge for period of record from slope-area measurement of peak flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 27, 1995 reached a stage of 15.6 ft, at present site and datum, from floodmarks; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.8	5.2	10	6.0	6.1	22	23	32	59	267	13	2.7
2	9.7	4.7	6.9	6.0	6.0	14	24	8.6	195	31	7.7	2.6
3	15	7.5	6.4	6.1	92	12	14	7.9	16	7.9	6.3	2.5
4	9.2	99	7.0	6.3	14	10	12	7.6	9.6	6.0	5.7	2.3
5	7.4	11	6.0	6.4	8.5	9.8	11	7.7	7.7	5.6	5.3	2.3
6	6.1	6.4	29	6.5	7.3	9.1	11	8.7	7.6	5.2	5.1	2.3
7	5.9	5.7	16	6.3	6.9	9.0	16	7.6	69	297	4.8	2.3
8	5.8	5.3	7.9	6.3	6.8	112	14	7.5	10	25	42	2.3
9	5.7	5.1	14	6.4	6.7	15	11	7.4	8.6	9.2	161	e2.3
10	5.5	5.2	156	6.6	6.7	11	9.8	174	9.0	7.3	38	e2.1
11	4.8	5.7	15	6.7	5.8	11	9.7	45	9.2	31	9.2	1.9
12	5.4	51	9.8	6.4	5.7	10	156	92	11	12	6.4	e2.0
13	129	10	8.5	6.5	5.8	9.5	156	27	6.0	21	5.7	e2.1
14	8.6	5.5	7.4	228	41	18	115	11	5.8	8.7	13	2.0
15	7.0	5.2	6.9	12	9.9	8.8	21	8.9	6.1	6.0	8.0	2.1
16	5.7	5.7	6.9	8.2	6.9	99	15	8.6	4.9	5.5	5.8	9.3
17	5.5	5.7	6.8	6.9	7.1	72	14	8.4	4.7	5.2	19	4.2
18	6.3	5.6	6.8	6.4	5.8	19	12	7.8	4.6	16	7.2	1.9
19	6.3	6.2	6.9	6.2	5.5	14	11	7.3	5.9	7.5	5.3	1.9
20	5.7	7.2	6.5	6.5	8.7	12	10	64	5.9	44	4.8	1.9
21	5.6	6.6	6.7	6.3	41	11	9.6	8.9	4.5	9.3	4.4	1.8
22	6.0	6.5	6.8	5.9	10	61	26	7.2	4.3	43	4.4	1.8
23	5.5	21	49	5.6	7.1	95	14	7.0	3.9	11	131	1.8
24	7.5	49	9.5	5.3	62	19	8.6	6.3	3.8	5.0	8.8	1.8
25	5.6	18	7.1	5.6	11	14	8.4	6.0	3.7	4.8	4.7	1.8
26	5.1	6.6	6.7	5.9	7.9	12	8.4	5.9	14	4.8	4.0	2.1
27	5.2	36	6.4	5.4	12	17	8.7	5.7	6.8	4.2	3.7	2.5
28	5.9	47	6.1	4.7	213	304	8.6	5.5	90	31	3.6	1.9
29	5.6	7.9	6.2	8.2	---	27	8.1	5.5	7.8	194	3.2	7.1
30	5.3	7.3	6.2	37	---	16	34	15	13	221	3.3	3.7
31	5.0	---	6.1	8.5	---	81	---	6.3	---	45	3.8	---
TOTAL	326.7	468.8	457.5	455.1	627.2	1,154.2	799.9	628.3	607.4	1,391.2	548.2	79.3
MEAN	10.5	15.6	14.8	14.7	22.4	37.2	26.7	20.3	20.2	44.9	17.7	2.64
MAX	129	99	156	228	213	304	156	174	195	297	161	9.3
MIN	4.8	4.7	6.0	4.7	5.5	8.8	8.1	5.5	3.7	4.2	3.2	1.8
CFSM	0.55	0.82	0.78	0.77	1.18	1.96	1.40	1.07	1.07	2.36	0.93	0.14
IN.	0.64	0.92	0.90	0.89	1.23	2.26	1.57	1.23	1.19	2.72	1.07	0.16

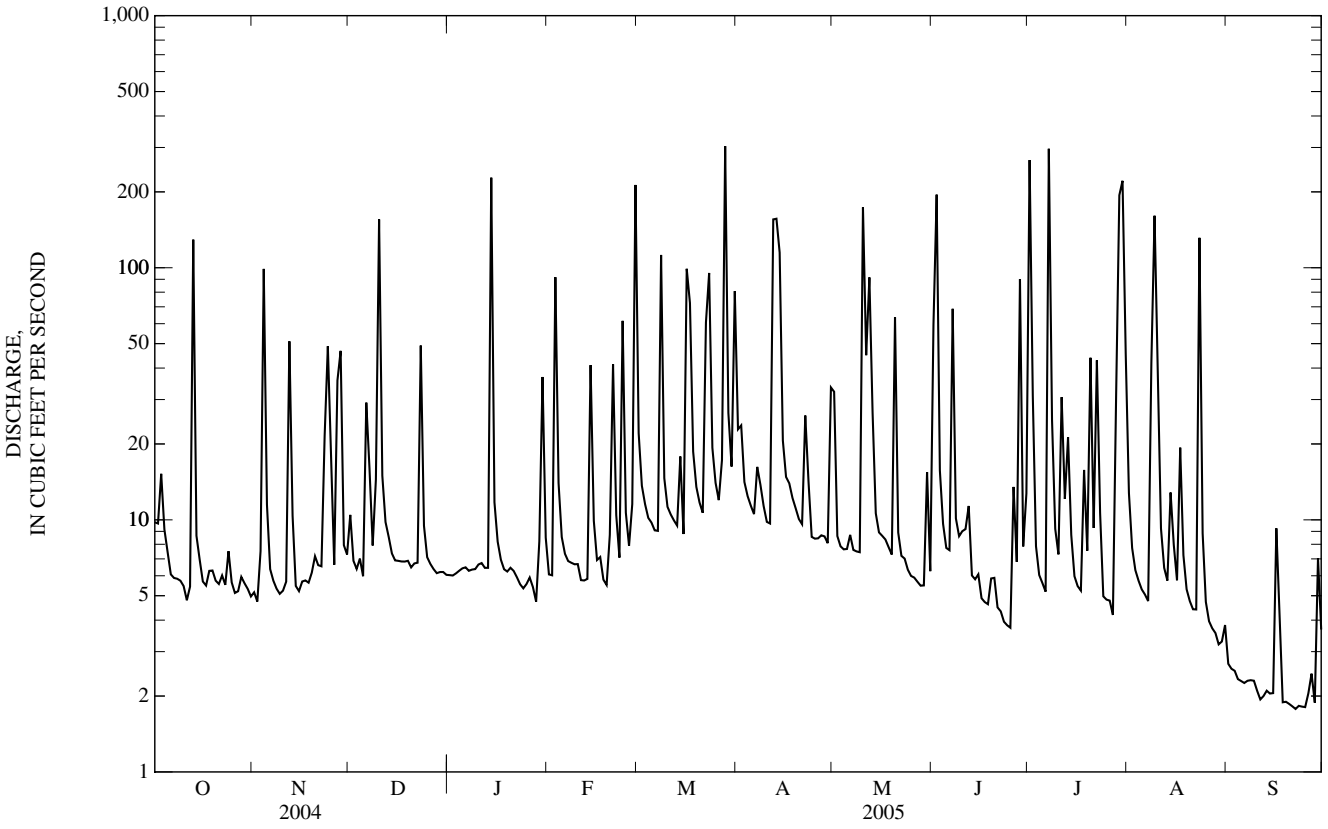
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)

MEAN	14.7	12.7	17.4	26.1	26.8	32.0	34.0	22.6	24.6	32.1	16.3	22.1
MAX	31.0	27.7	45.8	65.2	46.9	78.2	94.2	112	118	114	34.4	83.7
(WY)	(2000)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	2.29	3.49	5.83	7.15	8.05	11.5	5.93	7.80	2.99	8.57	1.80	2.64
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(1999)	(2002)	(2004)	(2002)	(1996)	(2001)	(2005)

0214645022 BRIAR CREEK ABOVE COLONY ROAD AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005	
ANNUAL TOTAL	8,188.5		7,543.8			
ANNUAL MEAN	22.4		20.7		23.7	
HIGHEST ANNUAL MEAN					53.3	2003
LOWEST ANNUAL MEAN					10.8	2002
HIGHEST DAILY MEAN	836	Sep 28	304	Mar 28	2,610	Jul 23, 1997
LOWEST DAILY MEAN	2.0	Jun 20	1.8	Sep 21	0.18	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	2.7	Jun 1	1.8	Sep 19	0.29	Aug 8, 2002
MAXIMUM PEAK FLOW			1,600	Jul 7	5,680*	Jul 23, 1997
MAXIMUM PEAK STAGE			9.22	Jul 7	15.41*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			1.6	Sep 25	0.12	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	1.18		1.09		1.25	
ANNUAL RUNOFF (INCHES)	16.03		14.77		16.95	
10 PERCENT EXCEEDS	44		44		44	
50 PERCENT EXCEEDS	6.4		7.3		6.4	
90 PERCENT EXCEEDS	3.5		4.1		2.2	

* See REMARKS.
e Estimated.



02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC

LOCATION.--Lat 35°09'52", long 80°51'11", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Seneca Place, 0.8 mi upstream from mouth, and 4 mi south of city hall in Charlotte.

DRAINAGE AREA.--2.63 mi^2.

PERIOD OF RECORD.--Water years 1967 to 1970 (annual maximum), December 1982 to September 1990, October 1994 to current year.

REVISED RECORDS.--WDR NC-85-1: 1984 (P). WDR NC-88-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 597.32 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. No flow occurred periodically in 1986, 1987, 1988, 2001, 2002. Maximum discharge for period of record and current water year from rating curve extended above 1,700 ft^3/s. Minimum discharge for current water year also occurred Sept. 22, 30. Maximum peak stage for current water year from crest-stage gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.79	0.46	1.1	0.65	0.77	1.7	1.8	2.7	11	19	1.1	0.16
2	1.1	0.47	0.60	0.74	0.67	e1.3	2.2	0.93	20	7.3	0.80	0.16
3	2.0	0.98	0.59	0.65	12	e1.0	1.3	0.74	1.6	1.7	0.70	0.16
4	0.77	8.6	0.59	0.66	1.2	e0.95	1.2	0.65	1.2	1.1	0.65	0.16
5	0.67	0.72	0.63	0.75	0.96	0.94	1.1	0.65	1.0	0.91	1.2	0.19
6	0.66	0.56	4.0	0.78	0.90	0.86	1.1	0.85	0.95	0.88	0.63	0.29
7	0.65	0.58	0.98	0.66	0.86	0.92	1.6	0.64	e15	29	0.58	0.27
8	0.59	0.51	0.68	0.68	0.86	10	1.5	0.62	e2.0	1.5	8.1	0.56
9	0.60	0.47	1.2	0.69	0.87	1.2	1.0	0.60	1.3	0.84	22	0.42
10	0.61	0.48	23	0.72	0.83	1.0	0.98	e30	1.2	0.74	1.5	0.11
11	0.59	0.52	1.3	0.72	0.66	1.0	1.0	e4.5	0.99	5.8	0.84	0.13
12	0.59	7.2	0.97	0.72	0.65	0.92	21	11	0.93	1.2	1.7	0.14
13	14	0.64	0.89	0.71	0.70	0.87	14	1.9	0.89	1.5	0.83	0.13
14	0.66	0.46	0.80	23	4.8	1.1	12	1.0	0.85	0.86	12	0.12
15	0.59	0.46	0.78	1.1	0.88	0.79	1.9	0.88	0.83	0.72	1.2	0.09
16	0.51	0.48	0.66	0.91	0.76	11	1.5	0.83	0.71	0.76	0.70	4.1
17	0.53	0.48	0.69	0.80	0.68	6.4	1.4	0.80	0.59	0.63	3.5	0.21
18	0.54	0.48	0.67	0.72	0.65	1.5	1.2	0.78	1.1	0.89	1.6	0.11
19	0.53	0.48	0.67	0.73	0.65	1.2	1.1	0.71	3.0	0.53	0.71	0.11
20	0.54	0.47	0.65	0.72	1.5	1.0	1.1	10	0.80	0.56	0.61	0.12
21	0.52	0.44	0.68	0.77	6.2	0.97	1.0	0.86	0.64	0.50	0.54	0.14
22	0.59	0.46	0.68	0.72	1.1	10	5.1	0.76	0.58	0.95	0.52	0.10
23	0.54	2.9	6.4	0.68	0.83	11	1.4	0.74	0.54	0.61	21	0.17
24	0.70	6.7	0.82	0.65	8.5	1.6	1.0	0.70	0.52	0.43	0.50	0.16
25	0.49	1.2	0.69	0.66	1.1	1.4	1.0	0.63	0.54	0.41	0.28	0.08
26	0.49	0.59	0.65	0.65	0.95	1.3	0.99	0.63	5.7	0.39	0.25	0.08
27	0.53	7.1	0.65	0.64	3.2	5.1	0.97	0.60	0.96	0.37	0.22	0.12
28	0.57	2.3	0.69	0.59	23	39	0.87	0.52	19	6.8	0.20	0.15
29	0.67	0.72	0.66	1.2	---	2.1	0.89	0.52	1.1	31	0.20	0.85
30	0.79	0.65	0.65	4.6	---	1.5	4.5	2.3	0.79	11	0.19	0.12
31	0.64	---	0.65	1.0	---	11	---	0.63	---	2.8	0.17	---
TOTAL	34.05	48.56	54.67	49.27	76.73	130.62	87.70	79.67	96.31	131.68	85.02	9.71
MEAN	1.10	1.62	1.76	1.59	2.74	4.21	2.92	2.57	3.21	4.25	2.74	0.32
MAX	14	8.6	23	23	23	39	21	30	20	31	22	4.1
MIN	0.49	0.44	0.59	0.59	0.65	0.79	0.87	0.52	0.52	0.37	0.17	0.08
CFSM	0.42	0.62	0.67	0.60	1.04	1.60	1.11	0.98	1.22	1.62	1.04	0.12
IN.	0.48	0.69	0.77	0.70	1.09	1.85	1.24	1.13	1.36	1.86	1.20	0.14

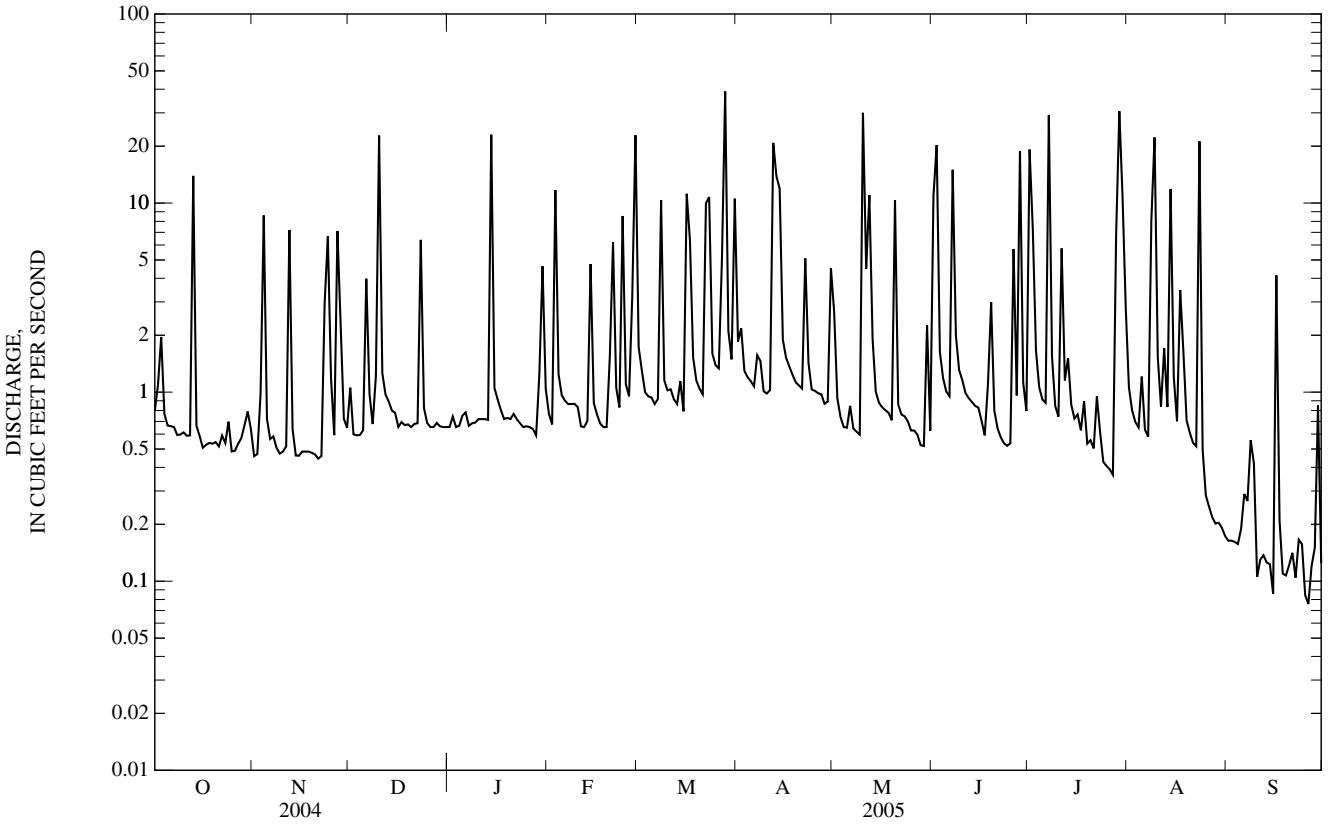
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,@ BY WATER YEAR (WY)

MEAN	2.17	2.65	2.86	3.87	4.87	4.49	3.45	3.20	2.98	3.07	2.83	2.42
MAX	5.05	10.5	10.5	9.46	8.96	9.67	10.9	15.5	12.6	13.8	9.12	8.17
(WY)	(1990)	(1986)	(1984)	(1998)	(1990)	(2003)	(2003)	(2003)	(2003)	(1997)	(1995)	(1989)
MIN	0.26	0.58	1.09	0.85	0.91	1.03	0.66	0.88	0.22	0.31	0.19	0.32
(WY)	(2001)	(2004)	(2001)	(2004)	(2002)	(1985)	(2002)	(1987)	(1986)	(1986)	(1987)	(2005)

02146470 LITTLE HOPE CREEK AT SENECA PLACE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005[@]	
ANNUAL TOTAL	1,003.06		883.99			
ANNUAL MEAN	2.74		2.42		3.23	
HIGHEST ANNUAL MEAN					6.32	2003
LOWEST ANNUAL MEAN					1.66	2001
HIGHEST DAILY MEAN	62	Sep 7	39	Mar 28	282	Jul 23, 1997
LOWEST DAILY MEAN	0.07	Jul 25	0.08	Sep 25	0.00	Jul 14, 1986
ANNUAL SEVEN-DAY MINIMUM	0.10	Jul 20	0.12	Sep 20	0.00	Jul 14, 1986
MAXIMUM PEAK FLOW			2,370*	Jun 7	2,590*	Jun 7, 2003
MAXIMUM PEAK STAGE			9.57*	Jun 7	9.89	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.05*	Sep 21	0.00*	Jul 14, 1986
ANNUAL RUNOFF (CFSM)	1.04		0.921		1.23	
ANNUAL RUNOFF (INCHES)	14.19		12.50		16.71	
10 PERCENT EXCEEDS	5.9		6.5		6.0	
50 PERCENT EXCEEDS	0.66		0.79		0.87	
90 PERCENT EXCEEDS	0.28		0.42		0.24	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated



02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC

LOCATION.--Lat 35°08'53", long 80°51'28", Mecklenburg County, Hydrologic Unit 03050103, on left bank at downstream side of bridge on Archdale Drive (Secondary Road 3657) in Charlotte, 0.7 mi downstream of Little Hope Creek, and 5.0 mi south of city hall, Charlotte.

DRAINAGE AREA.--42.6 mi^2.

PERIOD OF RECORD.--January 1978 to current year.

GAGE.--Water-stage recorder. Datum of gage is 563.69, above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. A daily average of 19.5 ft^3/s of treated sewage effluent from Sugar Creek wastewater treatment plant was discharged into the stream 0.4 mi upstream from gage. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 22, 1975, reached a stage of about 12.7 ft, from floodmarks, discharge, 7,360 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	49	32	43	34	36	70	75	102	172	631	50	29
2	48	32	36	33	36	52	80	44	541	101	42	29
3	59	37	29	33	254	48	57	42	62	43	42	28
4	57	239	34	34	56	44	53	41	46	38	41	27
5	43	46	33	33	44	44	51	41	42	37	35	26
6	40	33	90	33	40	42	49	51	51	36	33	27
7	40	32	61	33	39	42	61	42	485	643	31	27
8	38	31	37	32	39	291	58	40	71	73	132	27
9	36	30	51	32	39	57	52	40	53	36	439	28
10	36	30	428	32	39	48	47	572	64	34	79	26
11	35	29	52	33	37	47	47	165	60	78	43	25
12	37	160	41	31	36	46	425	249	51	51	41	25
13	299	47	37	32	37	45	387	95	45	67	37	25
14	36	32	36	604	112	64	316	47	45	46	143	26
15	33	32	36	48	49	45	66	43	44	37	48	25
16	30	31	35	39	39	260	61	43	43	36	38	83
17	29	32	35	37	39	184	58	41	42	35	70	38
18	31	32	35	35	32	65	56	40	41	53	41	27
19	32	31	34	35	30	55	53	39	47	41	35	25
20	30	32	34	37	38	51	51	198	46	107	37	26
21	30	31	34	35	123	48	49	45	41	52	36	26
22	30	31	34	34	45	177	94	40	41	111	36	27
23	30	68	137	34	35	302	65	40	40	50	540	24
24	36	150	43	33	178	68	45	39	39	34	52	26
25	33	64	35	34	43	55	44	38	39	34	36	25
26	31	36	34	36	36	51	45	37	84	38	32	26
27	31	101	36	35	42	64	45	37	54	33	30	28
28	33	128	34	33	564	847	44	36	353	121	30	26
29	34	39	33	38	---	83	39	35	54	606	30	38
30	33	37	33	109	---	61	101	59	44	705	31	31
31	32	---	34	44	---	219	---	39	---	109	33	---
TOTAL	1,391	1,685	1,704	1,725	2,137	3,575	2,674	2,420	2,840	4,116	2,343	876
MEAN	44.9	56.2	55.0	55.6	76.3	115	89.1	78.1	94.7	133	75.6	29.2
MAX	299	239	428	604	564	847	425	572	541	705	540	83
MIN	29	29	29	31	30	42	39	35	39	33	30	24
CFSM	1.05	1.32	1.29	1.31	1.79	2.71	2.09	1.83	2.22	3.12	1.77	0.69
IN.	1.21	1.47	1.49	1.51	1.87	3.12	2.34	2.11	2.48	3.59	2.05	0.76

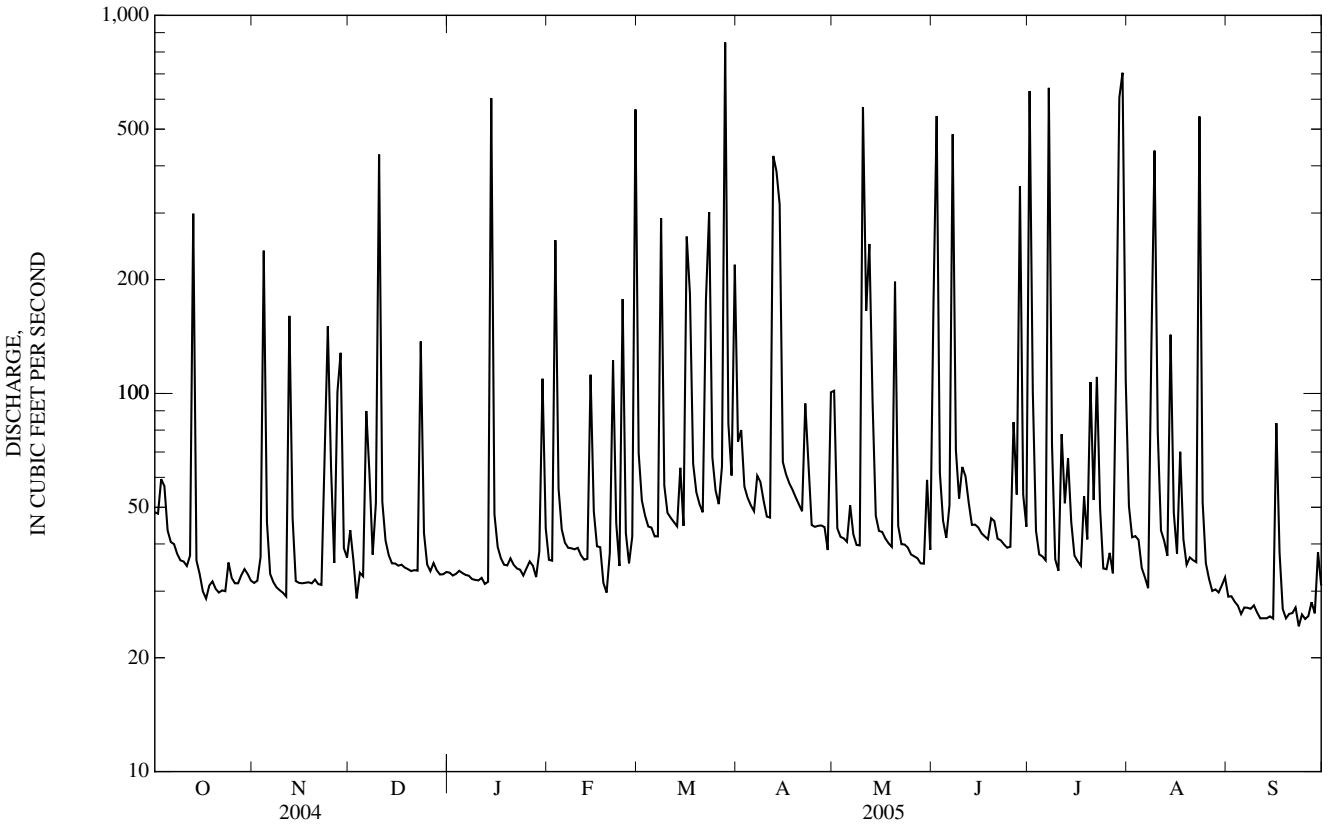
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2005, BY WATER YEAR (WY)

MEAN	69.2	68.9	69.3	103	108	119	89.1	77.3	77.9	76.1	75.5	68.9
MAX	258	197	164	207	194	245	257	322	256	310	227	233
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1993)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	25.1	22.6	32.8	31.6	44.4	40.0	30.8	33.8	20.5	27.2	29.5	21.7
(WY)	(2001)	(1982)	(1981)	(1981)	(2002)	(1985)	(1981)	(1986)	(1986)	(1986)	(1987)	(1986)

02146507 LITTLE SUGAR CREEK AT ARCHDALE DRIVE AT CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1978 - 2005	
ANNUAL TOTAL	30,122		27,486			
ANNUAL MEAN	82.3		75.3		83.5	
HIGHEST ANNUAL MEAN					154	2003
LOWEST ANNUAL MEAN					51.7	1981
HIGHEST DAILY MEAN	1,710	Sep 28	847	Mar 28	6,160	Jul 23, 1997
LOWEST DAILY MEAN	27	Jul 25	24	Sep 23	15	Sep 20, 1981
ANNUAL SEVEN-DAY MINIMUM	30	Oct 16	26	Sep 19	15	May 28, 1994
MAXIMUM PEAK FLOW			5,080	Aug 23	13,600	Jul 23, 1997
MAXIMUM PEAK STAGE			10.06	Aug 23	15.06	Jul 23, 1997
INSTANTANEOUS LOW FLOW			8.7*	Sep 23	2.1*	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.93		1.77		1.96	
ANNUAL RUNOFF (INCHES)	26.30		24.00		26.63	
10 PERCENT EXCEEDS	130		130		150	
50 PERCENT EXCEEDS	40		40		38	
90 PERCENT EXCEEDS	32		30		25	

* See REMARKS.



02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC

LOCATION.--Lat 35°05'07", long 80°52'56", Mecklenburg County, Hydrologic Unit 03050103, on left bank on upstream side of bridge on State Highway 51, 0.5 mi east of intersection of State Highway 51 and U.S. Highway 521 at Pineville.,

DRAINAGE AREA.--49.2 mi^2.

PERIOD OF RECORD.--Occasional discharge measurements, water years 1966-97. June 1997 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 531.94 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. A daily average of 19.5 ft^3/s of treated effluent from Sugar Creek wastewater treatment plant was discharged into the stream 5.2 mi upstream from the gage. Maximum gage height for period of record from floodmarks. Maximum discharge for period of record from rating curve extended above 10,100 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	35	49	38	45	88	99	112	130	626	61	31
2	47	36	42	38	43	63	86	46	626	217	46	31
3	66	38	34	38	269	55	63	43	78	62	41	29
4	53	283	38	39	77	51	56	42	52	44	51	29
5	41	74	37	38	54	50	54	41	46	42	39	28
6	38	40	84	38	49	47	51	49	49	41	37	29
7	38	37	101	38	47	46	62	43	422	570	36	29
8	37	36	43	37	46	307	61	39	91	126	115	29
9	36	36	53	37	46	66	55	39	49	46	500	30
10	36	35	430	37	46	51	48	324	58	39	108	28
11	35	35	69	37	44	49	48	345	55	71	53	28
12	37	156	49	37	43	48	254	144	45	72	55	e28
13	306	77	44	36	43	46	520	187	39	69	40	28
14	48	38	42	602	123	63	383	54	38	56	184	28
15	42	37	41	68	67	46	81	48	37	38	66	28
16	37	37	41	52	48	257	69	47	37	36	40	80
17	36	37	41	47	46	232	63	44	35	35	73	46
18	38	37	40	45	38	72	59	42	35	48	92	28
19	38	36	40	44	36	58	55	41	38	50	36	27
20	37	37	39	45	40	53	52	276	39	93	36	27
21	36	36	39	44	147	50	50	58	35	65	35	27
22	36	36	39	43	61	119	84	46	34	103	35	27
23	36	90	164	43	41	375	90	44	33	70	552	25
24	39	146	55	e43	195	78	46	42	32	34	72	26
25	37	101	41	44	55	61	45	39	32	33	40	26
26	36	42	39	43	43	55	45	38	80	36	35	26
27	36	63	40	42	43	56	45	37	64	34	34	28
28	36	203	39	41	570	826	45	36	345	92	33	26
29	38	46	38	45	---	110	41	36	59	619	32	35
30	37	42	38	123	---	72	107	62	40	592	33	39
31	36	---	38	58	---	235	---	40	---	150	34	---
TOTAL	1,497	1,982	1,927	1,960	2,405	3,785	2,817	2,484	2,753	4,209	2,644	926
MEAN	48.3	66.1	62.2	63.2	85.9	122	93.9	80.1	91.8	136	85.3	30.9
MAX	306	283	430	602	570	826	520	345	626	626	552	80
MIN	35	35	34	36	36	46	41	36	32	33	32	25
CFSM	0.98	1.34	1.26	1.29	1.75	2.48	1.91	1.63	1.87	2.76	1.73	0.63
IN.	1.13	1.50	1.46	1.48	1.82	2.86	2.13	1.88	2.08	3.18	2.00	0.70

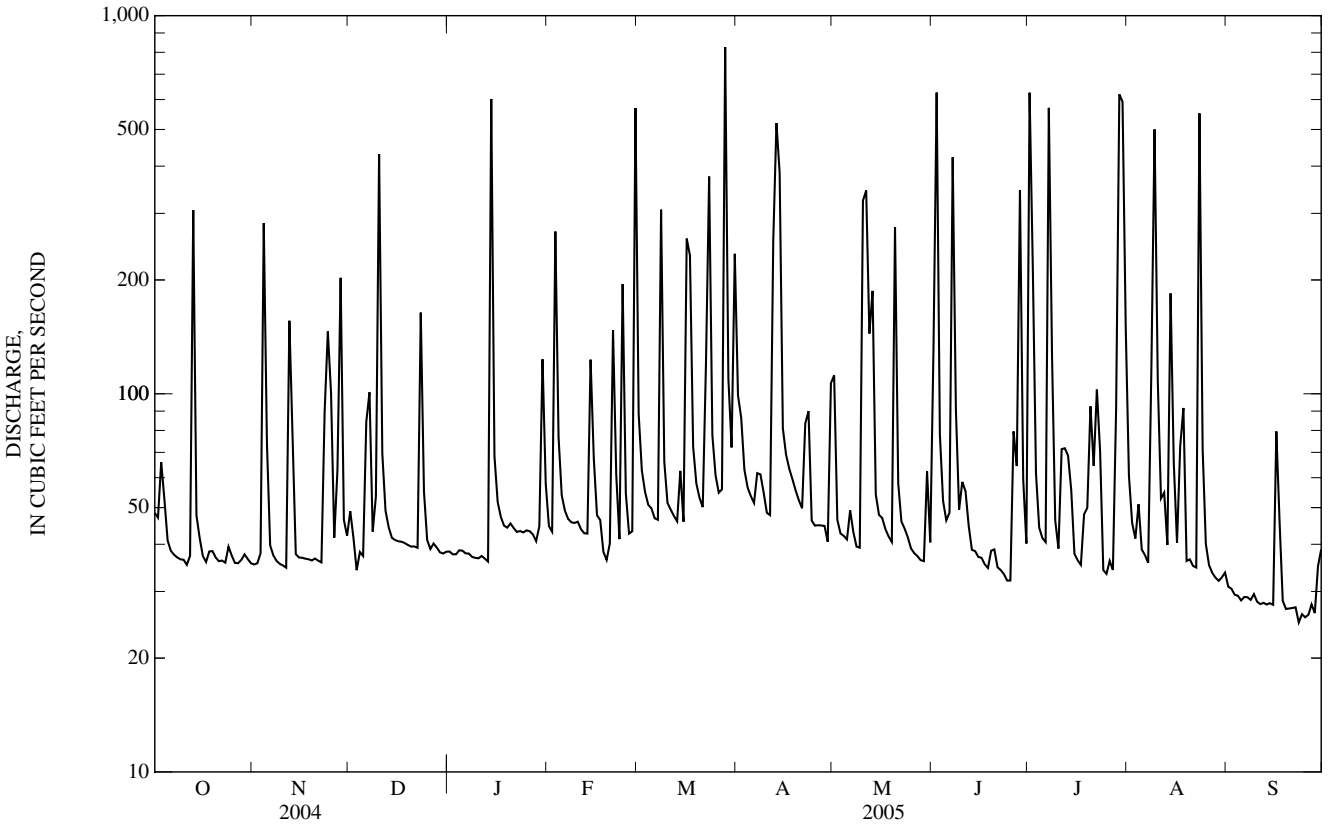
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	64.2	61.0	77.9	102	94.0	114	114	91.4	96.9	123	73.9	87.3
MAX	115	104	152	236	167	237	269	332	283	336	123	224
(WY)	(2000)	(2003)	(2003)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1997)	(2003)	(2004)
MIN	33.0	29.9	46.9	38.7	44.2	55.5	35.4	40.1	35.1	57.1	36.3	30.9
(WY)	(2002)	(2002)	(2000)	(2004)	(2002)	(1999)	(2002)	(1999)	(2002)	(2001)	(2001)	(2005)

02146530 LITTLE SUGAR CREEK AT HIGHWAY 51 AT PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	29,856		29,389			
ANNUAL MEAN	81.6		80.5		90.1	
HIGHEST ANNUAL MEAN					164	2003
LOWEST ANNUAL MEAN					56.9	2002
HIGHEST DAILY MEAN	1,800	Sep 28	826	Mar 28	6,780	Jul 23, 1997
LOWEST DAILY MEAN	26	Jul 16	25	Sep 23	21	Dec 9, 2001
ANNUAL SEVEN-DAY MINIMUM	30	Jul 20	26	Sep 20	22	Oct 16, 2001
MAXIMUM PEAK FLOW			3,010	Aug 23	11,200*	Jul 23, 1997
MAXIMUM PEAK STAGE			12.71	Aug 23	23.04*	Jul 23, 1997
INSTANTANEOUS LOW FLOW			18	Sep 23	10	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	1.66		1.64		1.83	
ANNUAL RUNOFF (INCHES)	22.57		22.22		24.88	
10 PERCENT EXCEEDS	158		146		179	
50 PERCENT EXCEEDS	38		44		40	
90 PERCENT EXCEEDS	31		34		29	

* See REMARKS.
e Estimated.



0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC

LOCATION.--Lat 35°10'33", long 80°43'09", Mecklenburg County, Hydrologic Unit 03050103, on left bank at upstream side of culvert on State Road 3120 (Idlewild Road), 1.5 mi above Irvins Creek, and 1.6 mi southeast of Idlewild.

DRAINAGE AREA.--7.52 mi^2.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 613.19 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for current water year also occurred Sept. 22, 27. No flow also occurred July 11, Aug. 13-14, 2002. Maximum discharge for period of record from rating curve extended above 800 ft^3/s on basis of culvert computation of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.8	3.6	2.1	3.0	13	13	6.9	12	14	3.7	0.50
2	2.8	1.8	2.6	2.3	2.5	6.3	9.6	2.9	90	10	1.8	0.37
3	3.6	2.2	2.4	2.3	27	4.7	6.0	2.1	12	2.7	1.2	0.29
4	3.3	23	2.3	2.3	9.7	3.8	4.6	1.9	4.5	1.8	0.94	0.26
5	2.8	7.6	2.2	2.3	4.5	3.4	4.1	1.8	3.0	1.4	0.83	0.24
6	2.5	3.0	4.1	2.3	3.3	3.1	3.8	2.1	2.3	1.1	0.77	0.24
7	2.1	2.3	4.2	2.4	2.9	4.3	4.2	1.8	2.5	21	0.70	0.22
8	2.0	2.0	2.9	2.6	2.7	29	6.5	1.8	2.4	9.2	0.64	e0.26
9	1.9	1.9	3.1	2.4	2.7	7.4	5.0	1.8	1.7	2.7	2.0	e0.25
10	1.9	1.8	44	2.4	2.8	4.4	3.7	5.3	3.0	1.7	1.5	0.21
11	1.8	1.8	9.6	2.2	2.5	4.1	3.3	6.2	2.1	1.6	0.86	0.18
12	1.7	9.5	4.7	2.2	2.2	3.4	40	12	1.4	1.5	0.91	0.17
13	72	6.4	3.5	2.3	2.4	3.0	81	12	1.3	1.5	0.62	0.14
14	6.7	2.9	2.8	56	11	3.0	52	3.7	1.2	1.3	0.59	0.15
15	3.3	2.3	2.4	7.4	6.5	2.6	11	2.5	1.0	1.0	0.55	0.13
16	2.6	2.1	2.4	4.2	3.7	27	6.5	2.2	0.92	0.90	0.53	0.24
17	2.1	2.0	2.5	3.3	3.0	32	4.9	1.8	0.80	0.81	0.46	0.55
18	2.1	2.0	2.5	2.7	2.6	9.3	3.9	1.5	0.78	0.68	2.2	0.23
19	1.8	1.9	2.5	2.6	2.3	5.4	3.8	1.4	0.77	0.65	0.86	0.15
20	1.8	2.0	2.2	2.7	2.8	4.9	3.2	12	0.89	1.0	0.65	0.14
21	1.7	2.0	2.0	2.6	11	3.7	3.0	3.3	0.79	0.60	0.53	0.11
22	1.7	2.0	2.1	2.3	6.0	12	3.6	1.9	0.74	1.4	0.45	0.12
23	1.7	5.6	8.5	2.2	3.6	28	4.0	1.6	0.68	1.4	3.5	0.12
24	2.1	13	4.3	2.0	19	7.9	2.8	1.3	0.64	0.69	1.6	0.20
25	1.9	9.5	2.9	2.0	7.0	4.8	2.5	1.0	0.63	0.56	0.71	0.18
26	1.8	3.3	2.5	2.1	4.0	3.9	2.2	1.0	3.2	0.50	0.52	0.14
27	1.8	5.7	2.2	2.0	4.5	4.0	2.3	0.97	2.0	0.43	0.46	0.12
28	2.2	14	2.1	1.9	74	76	2.1	1.6	12	6.7	0.39	0.18
29	2.1	4.6	2.1	2.4	---	13	2.1	1.4	3.7	36	0.34	0.75
30	2.8	3.2	2.1	9.7	---	7.1	5.2	2.8	1.9	9.1	2.7	0.74
31	1.9	---	2.1	4.5	---	23	---	1.7	---	8.9	1.4	---
TOTAL	143.7	143.2	139.4	142.7	229.2	357.5	299.9	102.27	170.84	142.82	34.91	7.58
MEAN	4.64	4.77	4.50	4.60	8.19	11.5	10.0	3.30	5.69	4.61	1.13	0.25
MAX	72	23	44	56	74	76	81	12	90	36	3.7	0.75
MIN	1.7	1.8	2.0	1.9	2.2	2.6	2.1	0.97	0.63	0.43	0.34	0.11
CFSM	0.62	0.63	0.60	0.61	1.09	1.53	1.33	0.44	0.76	0.61	0.15	0.03
IN.	0.71	0.71	0.69	0.71	1.13	1.77	1.48	0.51	0.85	0.71	0.17	0.04

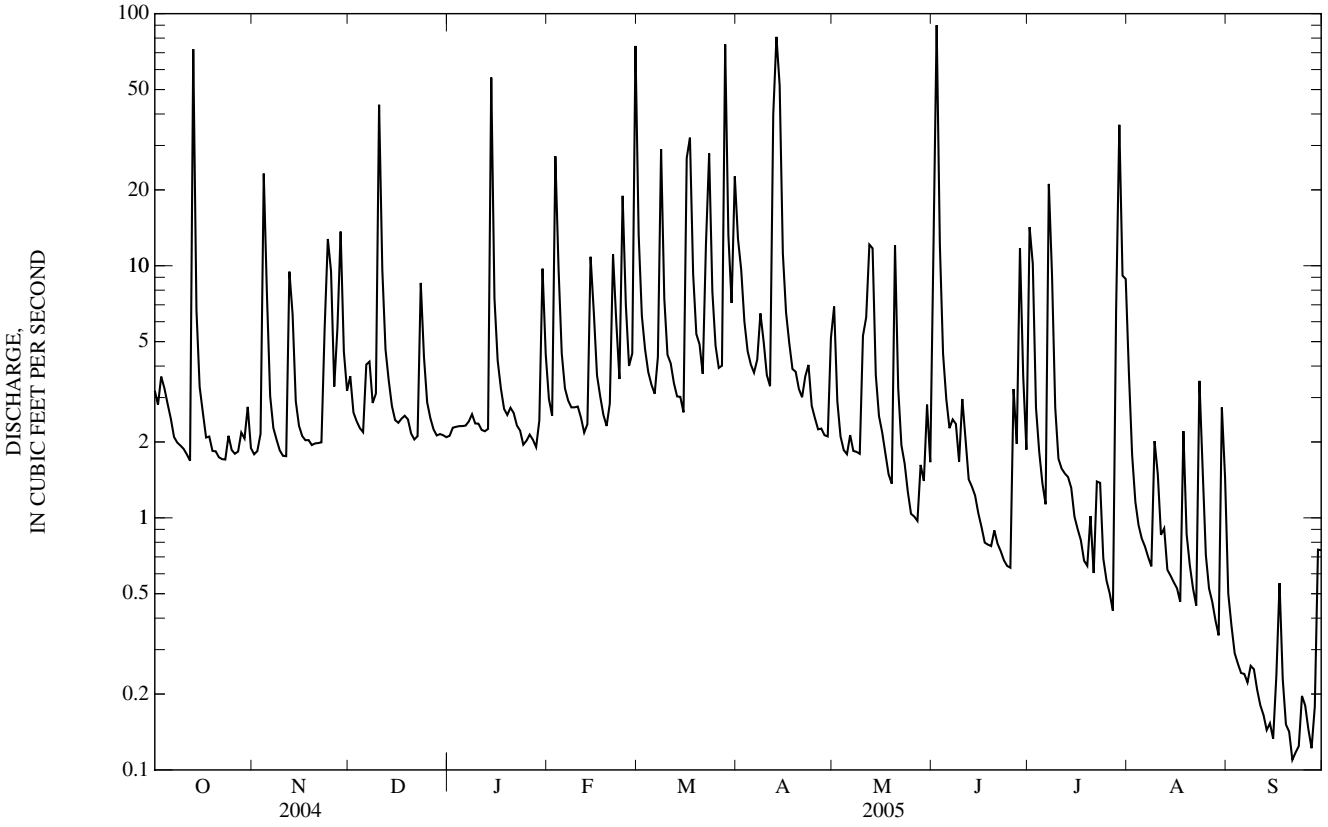
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	4.14	3.59	5.51	4.96	8.01	12.4	9.76	6.90	10.1	7.39	4.66	7.90
MAX	8.81	8.95	18.3	9.20	12.1	26.1	31.2	31.1	53.5	21.0	12.8	34.4
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.45	0.82	1.70	1.11	3.02	5.35	2.24	1.12	0.64	0.79	0.63	0.25
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2000)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

0214655255 MCALPINE CREEK AT STATE ROAD 3150 NEAR IDLEWILD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	2,868.18		1,914.02			
ANNUAL MEAN	7.84		5.24		7.33	
HIGHEST ANNUAL MEAN					19.2	2003
LOWEST ANNUAL MEAN					2.94	2002
HIGHEST DAILY MEAN	385	Sep 28	90	Jun 2	654	Jun 7, 2003
LOWEST DAILY MEAN	0.11	Jun 3	0.11	Sep 21	0.00	Jul 10, 2002
ANNUAL SEVEN-DAY MINIMUM	0.19	Jun 2	0.14	Sep 21	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			423	Oct 13	5,600*	Jun 7, 2003
MAXIMUM PEAK STAGE			5.05	Oct 13	13.32	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.10*	Sep 21	0.00*	Jul 10, 2002
ANNUAL RUNOFF (CFSM)	1.04		0.697		0.975	
ANNUAL RUNOFF (INCHES)	14.19		9.47		13.24	
10 PERCENT EXCEEDS	12		9.8		13	
50 PERCENT EXCEEDS	2.1		2.3		2.0	
90 PERCENT EXCEEDS	0.39		0.53		0.33	

* See REMARKS.
e Estimated.



02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC

LOCATION.--Lat 35°11'12", long 80°44'12", Mecklenburg County, Hydrologic Unit 03050103, on right bank upstream side culvert on Secondary Road 3150, 2.3 mi upstream from mouth, and 6.0 mi east of Charlotte.

DRAINAGE AREA.--5.6 mi^2.

PERIOD OF RECORD.--June 1999 to current year.

REVISED RECORDS.--WDR NC-04-1: 2000(M), 2002(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 663.92 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow also occurred Aug. 10-14, 2002. Maximum discharge for period of record from rating curve extended above 540 ft^3/s based on culvert computation of peak flow.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	1.7	4.2	1.9	1.9	12	9.3	6.8	18	42	1.5	0.27
2	1.1	2.5	2.2	1.9	1.6	6.2	9.9	2.5	57	9.4	0.72	0.25
3	2.3	4.3	2.1	2.0	29	4.7	5.2	2.1	4.3	1.3	0.54	0.22
4	1.3	26	2.0	2.0	6.5	4.2	4.2	2.1	1.6	0.79	0.48	0.22
5	1.9	4.4	2.0	2.6	2.9	3.8	3.7	2.1	0.91	0.65	0.44	0.22
6	0.88	2.2	7.1	2.5	2.1	3.4	3.4	2.6	0.73	0.60	0.43	0.22
7	0.86	2.0	4.1	2.0	2.0	3.5	7.1	2.0	1.8	36	0.42	0.24
8	0.85	1.8	2.4	2.0	2.0	41	5.8	1.8	0.75	5.7	2.7	0.34
9	0.87	1.7	5.1	1.9	2.0	7.6	4.0	1.8	0.60	1.1	18	0.24
10	0.86	1.7	38	2.0	1.9	5.0	3.2	22	2.8	0.70	6.1	0.22
11	0.86	1.7	5.9	2.0	1.7	4.0	2.8	8.8	1.0	11	0.81	0.22
12	0.96	15	3.2	2.0	1.7	3.5	32	26	0.55	2.5	0.51	0.24
13	44	3.7	2.8	2.0	1.7	3.3	47	8.0	0.56	2.1	0.49	0.26
14	3.2	1.9	2.5	63	16	5.2	33	2.8	0.55	0.95	0.46	0.27
15	2.3	1.7	2.4	4.9	4.6	3.4	7.3	1.9	0.49	0.71	0.43	0.27
16	1.5	1.7	2.4	2.4	2.4	35	4.7	1.7	0.44	0.59	0.37	1.3
17	1.4	1.7	2.7	1.8	1.9	30	3.8	1.6	0.42	0.49	0.59	0.30
18	1.3	1.7	2.4	1.5	1.7	8.9	3.4	1.5	0.41	0.48	2.6	0.26
19	1.4	1.7	2.5	1.4	1.6	5.6	3.0	1.4	0.40	0.46	0.48	0.22
20	1.3	1.8	2.3	1.4	3.4	4.6	2.8	17	0.43	0.84	0.45	0.16
21	1.3	1.8	2.4	1.4	16	4.0	2.7	1.2	0.45	0.92	0.43	0.17
22	1.3	1.8	2.3	1.3	4.9	19	6.8	0.75	0.42	4.3	0.31	0.18
23	1.3	8.2	15	1.4	2.4	34	3.9	0.70	0.37	0.90	17	0.19
24	2.0	15	3.5	1.3	26	8.8	2.6	0.84	0.35	0.47	1.0	0.21
25	1.4	8.4	2.4	1.4	5.2	5.6	2.4	0.56	0.33	0.40	0.42	0.20
26	1.4	2.6	2.2	1.4	3.1	4.6	2.3	1.2	2.7	0.38	0.36	0.23
27	1.4	11	2.1	1.5	6.1	6.9	2.4	1.4	1.1	0.38	0.32	0.31
28	2.0	13	2.0	1.2	62	59	2.3	0.45	14	6.3	0.32	0.31
29	1.7	3.0	2.2	3.1	---	10	2.3	0.44	0.96	36	0.31	3.4
30	1.6	2.4	2.1	15	---	5.9	8.4	3.1	0.98	17	1.8	0.35
31	1.7	---	2.0	3.0	---	24	---	0.64	---	7.3	0.62	---
TOTAL	87.64	148.1	136.5	135.2	214.3	376.7	231.7	127.78	115.40	192.71	61.41	11.49
MEAN	2.83	4.94	4.40	4.36	7.65	12.2	7.72	4.12	3.85	6.22	1.98	0.38
MAX	44	26	38	63	62	59	47	26	57	42	18	3.4
MIN	0.85	1.7	2.0	1.2	1.6	3.3	2.3	0.44	0.33	0.38	0.31	0.16
CFSM	0.50	0.88	0.79	0.78	1.37	2.17	1.38	0.74	0.69	1.11	0.35	0.07
IN.	0.58	0.98	0.91	0.90	1.42	2.50	1.54	0.85	0.77	1.28	0.41	0.08

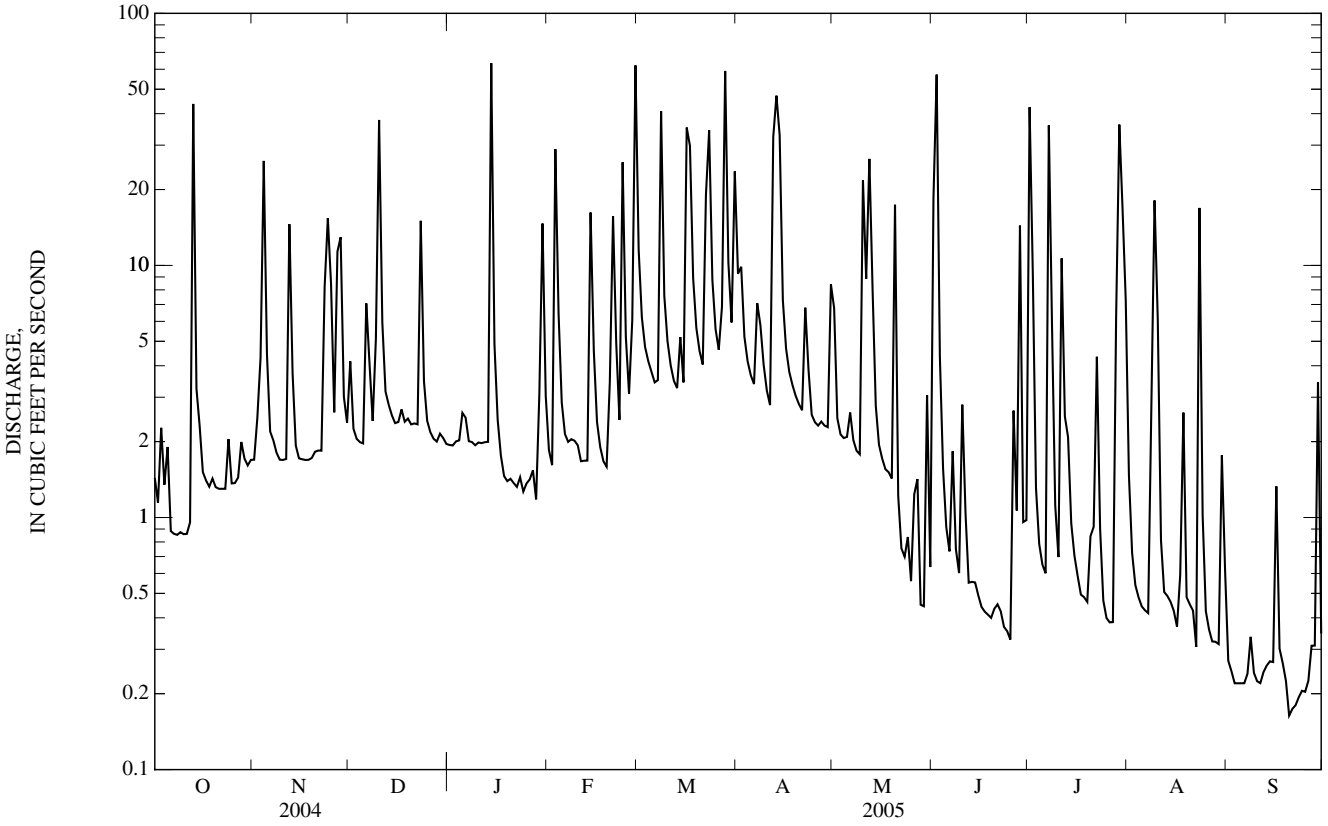
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	4.01	3.28	4.64	5.01	6.87	10.1	7.21	5.43	7.30	6.82	4.38	7.15
MAX	10.5	5.92	12.9	9.34	9.89	21.1	20.4	17.6	29.2	14.0	7.37	20.6
(WY)	(2000)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2002)	(2004)
MIN	0.54	0.83	1.90	1.42	2.69	4.16	1.88	1.45	1.05	1.09	0.98	0.38
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

02146562 CAMPBELL CREEK NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	2,297.60		1,838.93			
ANNUAL MEAN	6.28		5.04		6.11	
HIGHEST ANNUAL MEAN					12.3	2003
LOWEST ANNUAL MEAN					3.39	2002
HIGHEST DAILY MEAN	221	Sep 28	63	Jan 14	439	Jun 7, 2003
LOWEST DAILY MEAN	0.32	Jun 12	0.16	Sep 20	0.00	Aug 8, 2002
ANNUAL SEVEN-DAY MINIMUM	0.42	Jun 1	0.19	Sep 19	0.00	Aug 8, 2002
MAXIMUM PEAK FLOW			282	Oct 13	3,870*	Jun 7, 2003
MAXIMUM PEAK STAGE			3.49	Oct 13	9.66	Jun 7, 2003
INSTANTANEOUS LOW FLOW			0.11	Sep 9	0.00*	Aug 8, 2002
ANNUAL RUNOFF (CFSM)	1.12		0.900		1.09	
ANNUAL RUNOFF (INCHES)	15.26		12.22		14.83	
10 PERCENT EXCEEDS	15		12		11	
50 PERCENT EXCEEDS	1.6		2.0		1.4	
90 PERCENT EXCEEDS	0.56		0.37		0.31	

* See REMARKS.



0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 NEAR CHARLOTTE, NC

LOCATION.--Lat 35°09'31", long 80°42'48", Mecklenburg County, Hydrologic Unit 03050103, on right bank at downstream side of bridge on Secondary Road 3168, 4.0 mi southwest of Mint Hill.

DRAINAGE AREA.--8.37 mi^2.

PERIOD OF RECORD.--June 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 612.56 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--Records poor. Maximum discharge for current water year and period of record from rating curve extended above 500 ft^3/s by step-backwater and culvert analysis. No flow also occurred Aug. 14-15, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	1.8	3.6	2.5	3.1	12	14	8.4	13	4.2	2.1	0.67
2	3.9	1.9	3.0	2.6	2.9	6.9	13	4.7	139	3.5	1.4	0.40
3	4.7	2.5	2.9	2.3	25	5.4	9.2	4.1	13	2.1	1.2	0.41
4	3.8	15	2.7	2.4	8.2	4.8	7.5	3.7	6.1	1.9	1.0	0.35
5	3.2	5.2	2.6	2.2	4.6	4.4	6.9	3.8	4.6	1.8	0.90	0.33
6	2.8	3.0	4.5	2.7	3.8	4.2	6.3	4.2	25	1.7	0.91	0.34
7	2.6	2.8	4.7	2.5	4.5	3.8	6.7	3.8	13	9.0	0.94	0.40
8	2.4	2.5	e3.3	2.6	3.6	24	8.4	3.5	4.9	4.1	1.00	0.33
9	2.5	2.4	e4.7	2.5	3.3	7.3	7.2	3.3	3.8	2.0	1.7	0.28
10	2.3	2.3	e40	2.6	3.3	5.5	5.9	9.5	4.7	1.6	1.4	0.30
11	2.3	2.5	e8.0	2.7	3.0	4.9	5.7	8.1	4.0	1.5	1.0	0.28
12	2.3	6.9	e5.0	2.7	2.9	4.2	48	9.8	3.1	1.5	1.3	0.29
13	63	4.3	e4.0	2.8	2.8	4.1	78	9.1	3.3	1.7	1.0	0.27
14	6.4	2.6	3.1	55	9.9	3.8	77	4.9	3.0	1.7	1.0	0.26
15	4.0	2.4	2.9	6.1	5.9	3.6	13	3.9	2.8	1.3	1.2	0.29
16	2.4	2.3	2.8	4.0	3.9	29	9.4	3.4	2.2	1.2	0.85	0.66
17	1.9	2.3	2.7	3.4	3.6	31	7.7	3.2	2.1	1.2	0.70	1.3
18	1.9	2.2	3.0	3.1	3.2	9.5	6.8	3.1	1.9	1.0	2.8	0.70
19	2.0	2.2	2.6	3.0	3.0	6.3	7.4	2.8	1.8	1.6	1.2	0.45
20	1.9	2.3	2.4	3.0	3.2	5.4	5.8	12	1.9	1.9	0.91	0.41
21	2.0	2.2	2.4	3.0	10	4.4	5.4	4.6	1.8	1.1	0.72	0.38
22	2.0	2.2	2.4	2.8	6.2	9.8	5.3	3.3	1.8	0.97	0.68	0.36
23	1.9	6.5	5.5	2.8	4.0	23	5.6	3.0	1.7	1.0	1.6	0.34
24	2.0	8.1	3.4	2.5	20	8.0	5.2	2.8	1.7	0.76	1.4	0.32
25	1.9	6.2	2.8	2.7	6.7	5.7	4.5	2.7	1.6	0.70	0.71	0.18
26	1.8	3.2	2.5	2.8	4.5	4.9	4.4	2.6	4.4	0.69	0.59	0.21
27	1.9	4.5	2.3	2.7	4.5	5.1	4.7	2.4	3.1	0.62	0.54	0.35
28	2.0	15	2.2	2.4	103	112	4.4	2.5	14	3.0	0.62	0.38
29	2.0	4.2	2.2	2.8	---	15	4.1	2.3	4.0	16	0.75	0.32
30	2.0	3.3	2.4	6.9	---	9.9	6.3	3.9	2.4	4.1	1.0	1.2
31	1.9	---	2.6	4.1	---	24	---	3.2	---	5.8	1.1	---
TOTAL	142.2	124.8	139.2	146.2	262.6	401.9	393.8	142.6	289.7	81.24	34.22	12.76
MEAN	4.59	4.16	4.49	4.72	9.38	13.0	13.1	4.60	9.66	2.62	1.10	0.43
MAX	63	15	40	55	103	112	78	12	139	16	2.8	1.3
MIN	1.8	1.8	2.2	2.2	2.8	3.6	4.1	2.3	1.6	0.62	0.54	0.18
CFSM	0.55	0.50	0.54	0.56	1.12	1.55	1.57	0.55	1.15	0.31	0.13	0.05
IN.	0.63	0.55	0.62	0.65	1.17	1.79	1.75	0.63	1.29	0.36	0.15	0.06

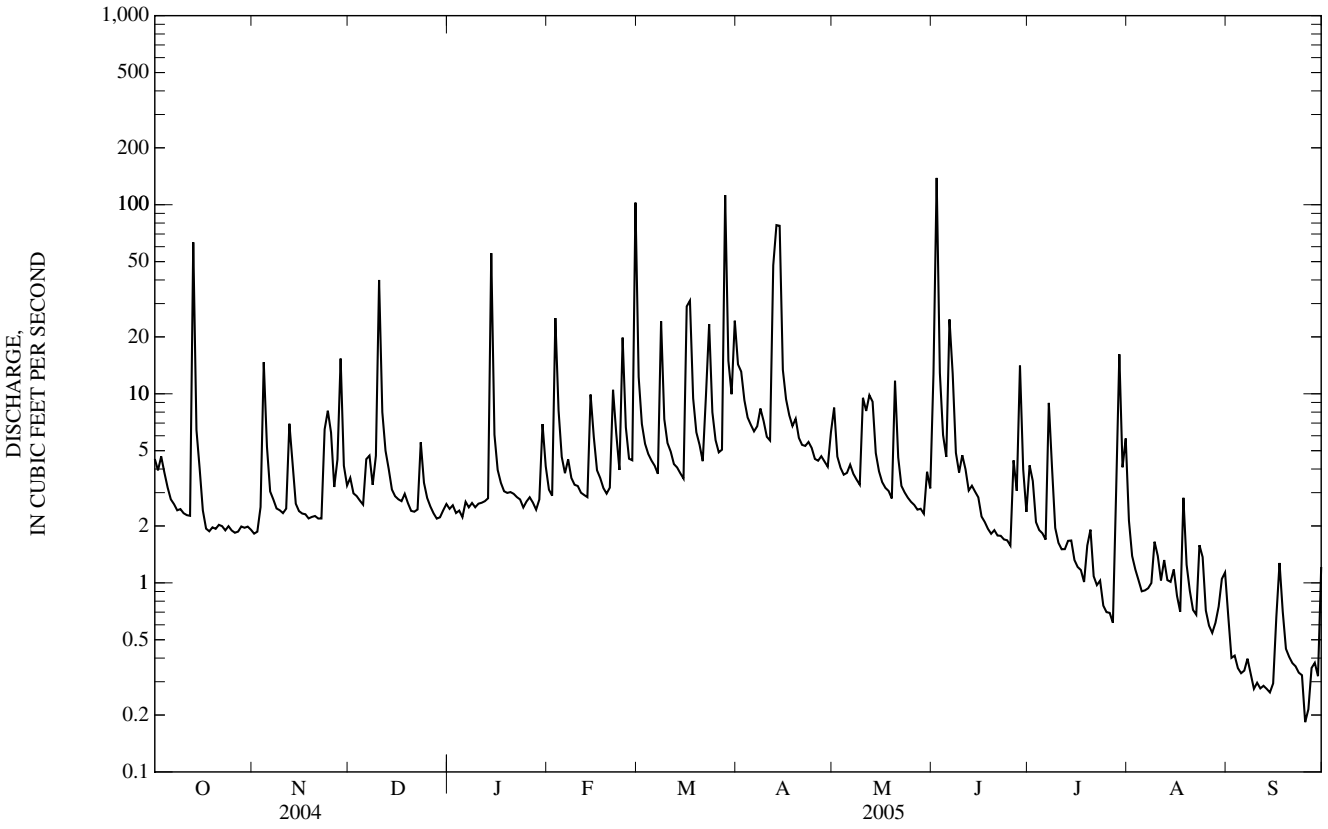
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	3.90	2.79	4.45	4.66	8.45	12.3	11.5	7.45	10.7	4.88	3.43	7.65
MAX	10.1	7.71	15.2	7.87	13.6	32.1	42.7	33.0	56.2	17.7	10.3	39.0
(WY)	(2000)	(2003)	(2003)	(2000)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	0.37	0.12	0.79	2.13	2.32	5.24	2.35	1.21	0.44	0.08	0.21	0.43
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2004)	(2002)	(2002)	(2001)	(2005)

0214657975 IRVINS CREEK AT SECONDARY ROAD 3168 NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	2,797.57		2,171.22			
ANNUAL MEAN	7.64		5.95		7.08	
HIGHEST ANNUAL MEAN					20.1	2003
LOWEST ANNUAL MEAN					2.16	2002
HIGHEST DAILY MEAN	544	Sep 28	139	Jun 2	544	Sep 28, 2004
LOWEST DAILY MEAN	0.38	Jul 16	0.18	Sep 25	0.00	Aug 13, 2002
ANNUAL SEVEN-DAY MINIMUM	0.62	May 24	0.28	Sep 9	0.01	Aug 9, 2002
MAXIMUM PEAK FLOW			577*	Mar 28	2,670*	Jun 18, 2003
MAXIMUM PEAK STAGE			5.77	Mar 28	10.27	Jun 18, 2003
INSTANTANEOUS LOW FLOW			0.15	Sep 25	0.00*	Aug 13, 2002
ANNUAL RUNOFF (CFSM)	0.913		0.711		0.846	
ANNUAL RUNOFF (INCHES)	12.43		9.65		11.50	
10 PERCENT EXCEEDS	8.0		9.5		9.5	
50 PERCENT EXCEEDS	2.3		2.9		1.8	
90 PERCENT EXCEEDS	0.70		0.71		0.23	

* See REMARKS.
e Estimated.



02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'16", long 80°46'03", Mecklenburg County, Hydrologic Unit 03050103, near left bank on downstream end of bridge pier at Sardis Road (Secondary Road 3356), 1.7 mi downstream of Irvins Creek, and 7 mi southeast of city hall, Charlotte.

DRAINAGE AREA.--39.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-99-00-1B: Instantaneous low flow period of record.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 552.36 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. No flow for part of Nov. 15, 1972, result of upstream construction, and Aug. 14, 15, 2002.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of about 14.0 ft, from floodmarks; discharge, 4,150 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	8.9	19	13	14	64	60	48	72	159	18	5.5
2	15	10	14	12	13	31	47	14	822	62	9.4	4.1
3	20	9.1	12	12	171	22	28	11	63	13	7.3	3.3
4	16	154	12	12	47	18	20	9.9	27	9.4	6.0	3.0
5	13	37	11	12	23	16	18	9.7	18	7.8	5.4	2.9
6	11	14	27	11	17	14	16	12	50	7.1	5.0	2.6
7	10	11	34	11	16	15	24	10	65	149	4.7	2.6
8	9.5	9.6	15	11	15	187	25	9.4	23	50	5.3	2.8
9	9.3	8.8	15	11	15	35	21	8.6	14	12	36	2.7
10	9.4	8.5	205	12	14	21	15	116	15	8.4	20	2.0
11	9.0	8.7	47	11	13	17	14	71	22	15	7.9	2.1
12	8.9	62	23	11	12	15	159	205	10	18	6.3	1.9
13	399	31	17	12	12	14	405	99	10	25	8.1	1.7
14	31	12	14	375	75	15	324	19	9.7	13	19	1.6
15	17	10	12	38	35	13	49	14	8.6	6.9	8.2	1.5
16	12	9.7	12	21	18	181	29	11	8.0	5.3	4.5	5.6
17	10	9.5	12	16	15	189	22	9.9	6.8	5.0	4.1	5.0
18	10	9.4	12	14	13	45	19	9.3	6.6	4.9	49	2.4
19	10	9.4	12	13	12	26	18	8.8	6.2	20	9.0	1.7
20	11	9.0	11	13	15	21	16	175	6.3	15	4.9	1.6
21	11	9.1	10	13	83	18	14	20	5.9	21	3.9	1.7
22	9.5	9.4	10	12	36	67	21	12	5.7	16	3.4	1.6
23	9.2	47	45	12	19	183	23	11	5.3	13	142	1.7
24	11	69	24	10	131	41	13	9.3	4.8	5.1	20	1.8
25	10	48	15	11	36	24	12	8.7	4.7	4.0	7.6	1.4
26	9.0	16	13	12	21	19	12	8.6	41	3.3	5.5	1.3
27	9.2	25	12	11	20	19	12	10	18	3.0	5.3	1.3
28	9.7	107	11	9.8	472	439	11	8.1	133	11	4.9	1.4
29	10	23	12	12	---	60	11	8.0	22	214	4.4	2.7
30	10	15	12	60	---	30	36	27	10	140	14	6.7
31	9.4	---	12	24	---	145	---	11	---	60	17	---
TOTAL	757.1	810.1	712	827.8	1,383	2,004	1,494	1,004.3	1,513.6	1,096.2	466.1	78.2
MEAN	24.4	27.0	23.0	26.7	49.4	64.6	49.8	32.4	50.5	35.4	15.0	2.61
MAX	399	154	205	375	472	439	405	205	822	214	142	6.7
MIN	8.9	8.5	10	9.8	12	13	11	8.0	4.7	3.0	3.4	1.3
CFSM	0.62	0.68	0.58	0.67	1.25	1.63	1.26	0.82	1.27	0.89	0.38	0.07
IN.	0.71	0.76	0.67	0.78	1.30	1.88	1.40	0.94	1.42	1.03	0.44	0.07

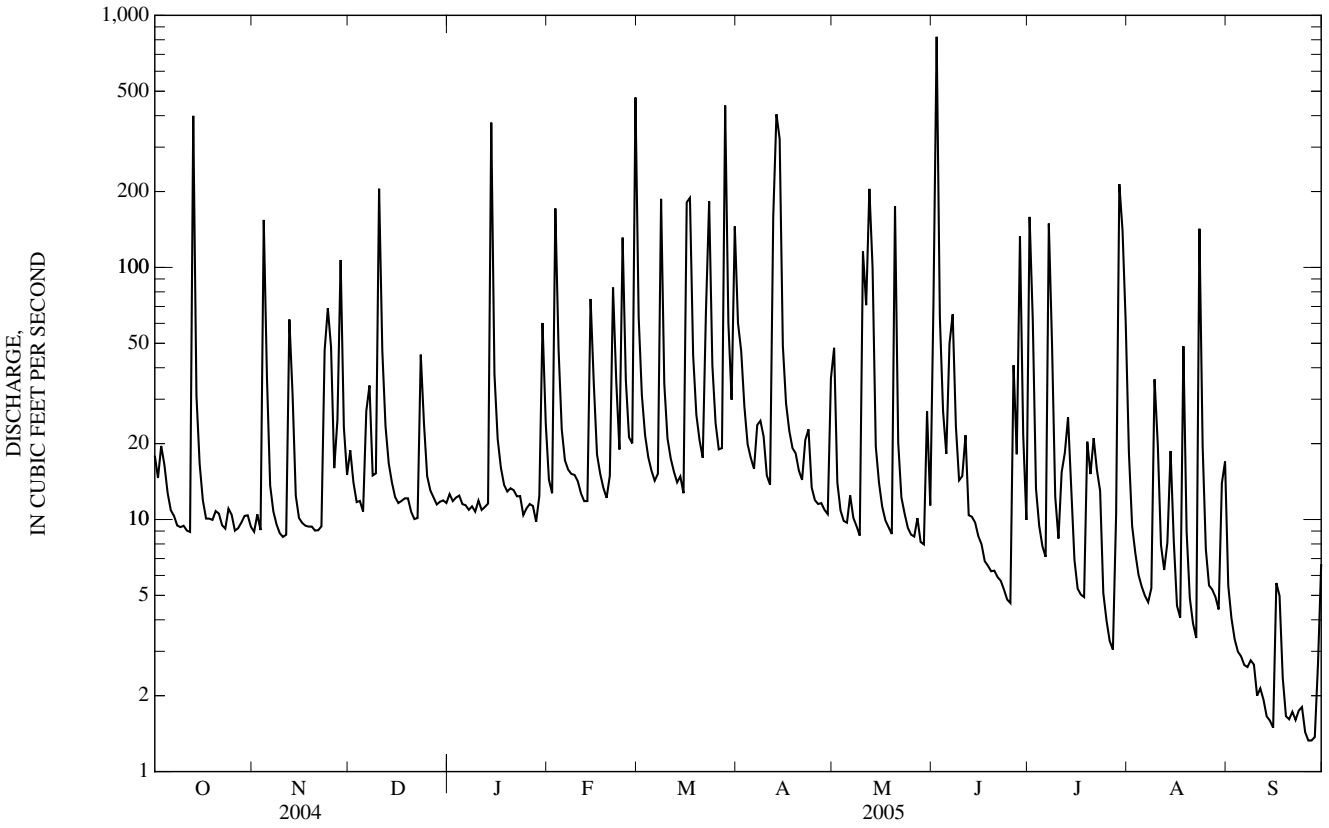
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	32.9	28.6	38.5	63.8	71.7	81.2	50.1	33.7	33.4	30.6	32.8	26.5
MAX	212	109	128	157	169	200	182	173	200	140	178	166
(WY)	(1991)	(1986)	(1984)	(1978)	(1979)	(1977)	(2003)	(1975)	(2003)	(1997)	(1994)	(2004)
MIN	3.16	3.11	7.55	6.58	16.9	13.6	7.45	7.65	3.60	4.04	3.42	1.46
(WY)	(1963)	(2002)	(1966)	(2004)	(1968)	(1985)	(1967)	(2004)	(1986)	(1977)	(1968)	(1968)

02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	15,065.7		12,146.4			
ANNUAL MEAN	41.2		33.3		43.6	
HIGHEST ANNUAL MEAN					90.5	2003
LOWEST ANNUAL MEAN					18.9	2001
HIGHEST DAILY MEAN	2,010	Sep 28	822	Jun 2	4,490	Aug 27, 1995
LOWEST DAILY MEAN	2.3	Jul 16	1.3	Sep 26	0.01	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	3.6	May 24	1.5	Sep 22	0.08	Aug 8, 2002
MAXIMUM PEAK FLOW			2,170	Jun 2	9,040	Aug 27, 1995
MAXIMUM PEAK STAGE			9.09	Jun 2	17.79	Aug 27, 1995
INSTANTANEOUS LOW FLOW			1.0	Sep 25	0.00*	Nov 15, 1972
ANNUAL RUNOFF (CFSM)	1.04		0.840		1.10	
ANNUAL RUNOFF (INCHES)	14.15		11.41		14.97	
10 PERCENT EXCEEDS	65		63		75	
50 PERCENT EXCEEDS	10		12		13	
90 PERCENT EXCEEDS	4.7		4.8		3.8	

* See REMARKS.



02146600 MCALPINE CREEK AT SARDIS ROAD NEAR CHARLOTTE, NC—Continued

PRECIPITATION RECORDS

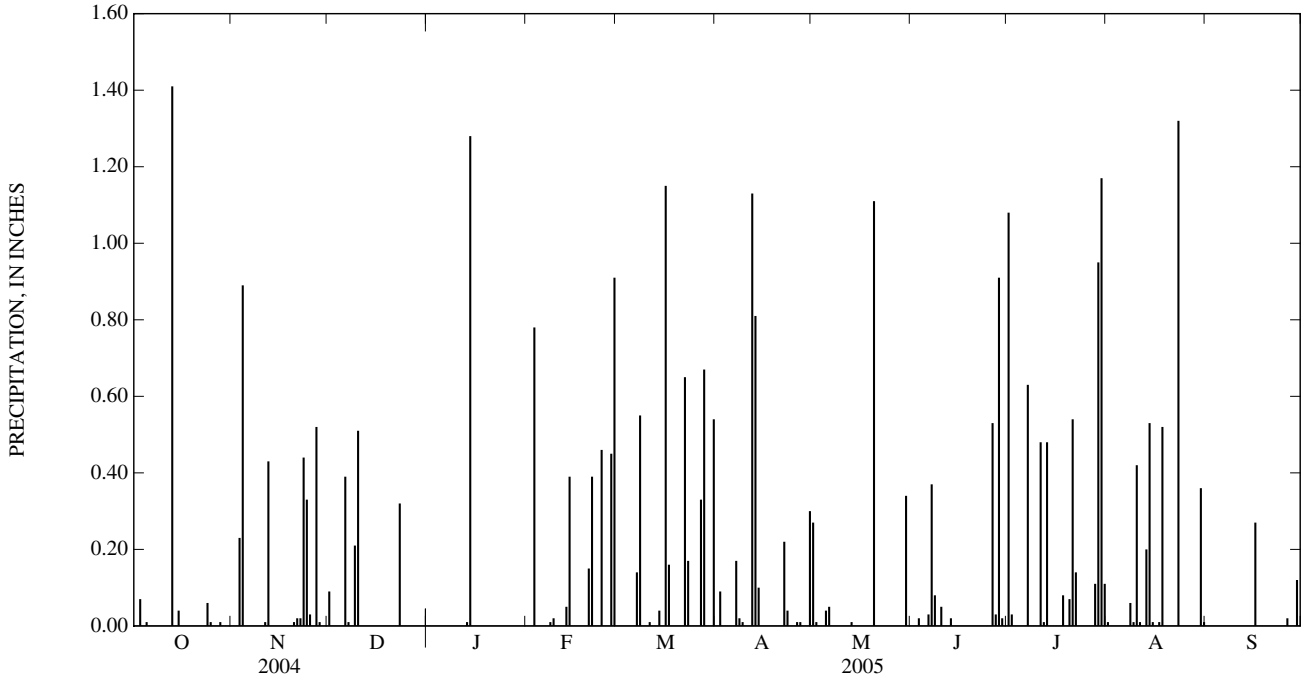
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.27	---	1.08	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.01	---	0.03	0.00	0.00
3	0.07	0.23	0.00	0.00	0.78	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.05	0.03	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.14	0.17	0.00	0.37	0.63	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.55	0.02	0.00	0.08	0.00	0.06	0.00
9	0.00	0.00	0.21	0.00	0.02	0.00	0.01	---	0.00	0.00	0.01	0.00
10	0.00	0.00	0.51	0.00	0.00	0.00	0.00	---	0.05	0.00	0.42	0.00
11	0.00	0.01	0.00	0.00	0.00	0.01	0.00	---	0.00	0.48	0.01	0.00
12	0.00	0.43	0.00	0.00	0.00	0.00	1.13	---	0.00	0.01	0.00	0.00
13	1.41	0.00	0.00	0.01	0.05	0.00	0.81	0.01	0.02	0.48	0.20	0.00
14	0.00	0.00	0.00	1.28	0.39	0.04	0.10	0.00	0.00	0.00	0.53	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.00	1.15	0.00	0.00	0.00	0.00	0.00	0.27
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.52	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.15	0.00	0.00	1.11	0.00	0.07	0.00	0.00
21	0.00	0.02	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.54	0.00	0.00
22	0.00	0.02	0.00	0.00	0.00	0.65	0.22	0.00	0.00	0.14	0.00	0.00
23	0.00	0.44	0.32	0.00	0.00	0.17	0.04	0.00	0.00	0.00	1.32	0.00
24	0.06	0.33	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.53	0.00	0.00	0.02
27	0.00	0.52	0.00	0.00	0.45	0.33	0.01	0.00	0.03	0.00	0.00	0.00
28	0.01	0.01	0.00	0.00	0.91	0.67	0.00	0.00	0.91	0.11	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.02	0.95	0.00	0.12
30	0.00	0.00	0.00	---	---	0.00	0.30	0.34	0.00	1.17	0.36	0.00
31	0.00	---	0.00	0.00	---	0.54	---	0.00	---	0.11	0.01	---
TOTAL	1.61	2.94	1.53	---	3.61	4.41	2.91	---	---	5.88	3.47	0.41



02146670 FOUR MILE CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'37", long 80°49'21", Mecklenburg County, Hydrologic Unit 03050103, on left bank on downstream side of bridge at Elm Lane W. (Secondary Road 3649), 0.5 mi south of State Highway 51, 1.25 mi upstream of McAlpine Creek, and 4.5 mi east of U.S. Highway 521 at Pineville.

DRAINAGE AREA.--17.8 mi^2.

PERIOD OF RECORD.-- July 1997 to September 2003 (daily discharges), October 2003 to current year.

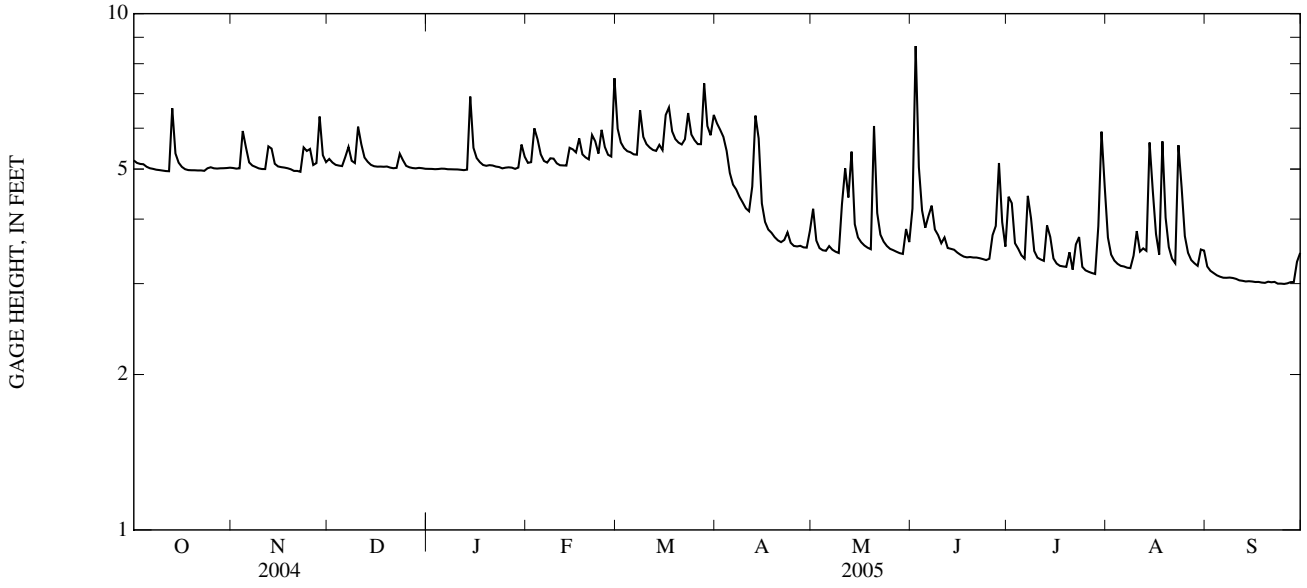
GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 528.69 ft above North American Vertical Datum of 1988 (City of Charlotte bench mark). Radio telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 11.80 ft, June 2, 2005; minimum gage height, 2.74 ft, July 18, 19, 2001.

EXTREMES FOR CURRENT WATER YEAR.--Maximum gage height, 11.80 ft, June 2; minimum gage height, 2.98 ft, Sept. 25.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.19	5.02	5.23	5.00	5.14	5.99	6.13	4.19	4.19	4.42	3.68	3.24
2	5.14	5.01	5.15	5.00	5.16	5.63	5.96	3.64	8.65	4.29	3.41	3.18
3	5.12	5.02	5.10	5.00	6.00	5.49	5.77	3.51	5.04	3.59	3.32	3.14
4	5.11	5.93	5.08	5.00	5.71	5.42	5.42	3.48	4.16	3.50	3.28	3.11
5	5.05	5.51	5.07	5.01	5.34	5.39	4.91	3.47	3.85	3.40	3.25	3.09
6	5.02	5.15	5.28	5.01	5.18	5.34	4.67	3.55	4.06	3.35	3.24	3.08
7	5.00	5.08	5.52	5.00	5.15	5.33	4.56	3.49	4.25	4.44	3.22	3.08
8	4.99	5.05	5.19	5.00	5.25	6.50	4.42	3.46	3.82	4.01	3.21	3.08
9	4.98	5.02	5.14	4.99	5.24	5.77	4.31	3.44	3.73	3.47	3.40	3.08
10	4.97	5.00	6.04	4.99	5.13	5.59	4.20	4.28	3.59	3.37	3.79	3.06
11	4.96	5.00	5.58	4.98	5.09	5.50	4.14	5.01	3.69	3.34	3.46	3.04
12	4.95	5.53	5.26	4.98	5.08	5.45	4.63	4.41	3.52	3.32	3.51	3.04
13	6.56	5.48	5.16	4.99	5.08	5.42	6.35	5.40	3.50	3.89	3.47	3.03
14	5.36	5.12	5.10	6.91	5.50	5.57	5.73	3.91	3.49	3.69	5.63	3.03
15	5.14	5.06	5.06	5.50	5.46	5.44	4.29	3.69	3.45	3.36	4.54	3.03
16	5.05	5.04	5.05	5.25	5.38	6.36	3.95	3.61	3.41	3.28	3.74	3.02
17	5.00	5.03	5.06	5.16	5.73	6.58	3.82	3.56	3.38	3.25	3.42	3.02
18	4.98	5.02	5.05	5.09	5.34	5.92	3.76	3.52	3.37	3.24	5.66	3.01
19	4.97	5.00	5.06	5.07	5.27	5.72	3.69	3.50	3.38	3.23	4.03	3.01
20	4.97	4.96	5.03	5.09	5.22	5.63	3.64	6.06	3.37	3.45	3.53	3.03
21	4.97	4.96	5.02	5.08	5.82	5.58	3.61	4.11	3.37	3.19	3.35	3.02
22	4.97	4.94	5.03	5.06	5.66	5.71	3.64	3.73	3.36	3.57	3.28	3.02
23	4.96	5.51	5.35	5.05	5.36	6.42	3.77	3.62	3.35	3.69	5.56	3.00
24	5.02	5.42	5.20	5.02	5.96	5.83	3.60	3.55	3.33	3.23	4.60	3.00
25	5.04	5.47	5.07	5.03	5.52	5.69	3.55	3.50	3.35	3.18	3.71	3.00
26	5.02	5.09	5.04	5.04	5.33	5.59	3.54	3.48	3.72	3.16	3.44	3.00
27	5.01	5.14	5.02	5.03	5.29	5.59	3.55	3.46	3.88	3.14	3.33	3.02
28	5.02	6.32	5.02	5.00	7.50	7.33	3.53	3.44	5.14	3.13	3.28	3.02
29	5.02	5.32	5.03	5.03	---	6.06	3.52	3.42	3.95	3.88	3.25	3.31
30	5.02	5.16	5.02	5.58	---	5.81	3.80	3.83	3.54	5.91	3.49	3.44
31	5.03	---	5.01	5.28	---	6.37	---	3.61	---	4.62	3.48	---
MEAN	5.08	5.21	5.16	5.14	5.46	5.81	4.35	3.84	3.90	3.63	3.73	3.07
MAX	6.56	6.32	6.04	6.91	7.50	7.33	6.35	6.06	8.65	5.91	5.66	3.44
MIN	4.95	4.94	5.01	4.98	5.08	5.33	3.52	3.42	3.33	3.13	3.21	3.00



02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'12", Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi^2.

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 592.31 ft above North American Vertical of 1988. Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970, to Dec. 30, 1971, at site 154 ft downstream at 590.91 ft above NGVD of 1929. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 2,650 ft^3/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.3	3.5	1.4	2.0	6.6	6.7	7.6	25	191	5.0	e2.0
2	2.0	1.7	1.9	1.4	3.0	4.0	6.8	2.1	88	7.8	3.8	e1.7
3	4.3	2.3	1.5	1.5	38	3.5	3.6	1.9	5.6	3.3	3.4	e1.4
4	2.2	38	1.4	1.6	4.8	3.0	3.1	1.8	3.4	2.6	3.1	e1.0
5	1.7	3.0	1.4	1.6	3.1	2.7	2.9	1.7	2.9	e1.6	2.9	e1.0
6	1.7	1.5	8.7	1.8	2.6	2.5	2.7	2.2	2.5	e1.5	2.6	e1.0
7	1.6	1.4	3.5	1.4	2.3	2.6	5.7	1.7	48	e90	e2.0	e0.90
8	1.5	1.2	1.9	1.4	2.0	32	6.6	1.6	5.7	5.1	e2.0	e0.90
9	1.5	1.2	4.6	1.4	2.2	3.7	3.4	1.7	3.3	2.8	43	e0.80
10	1.4	1.4	43	1.5	2.1	2.9	3.0	162	2.9	e1.7	9.8	e0.80
11	1.3	1.1	4.6	1.4	1.9	2.8	2.5	10	2.6	e10	3.5	e0.70
12	1.3	18	2.5	1.5	1.8	2.6	68	84	2.3	3.5	2.8	e0.70
13	59	2.8	2.2	1.9	2.0	2.4	56	11	2.3	e15	2.5	e0.60
14	2.4	1.4	1.8	105	17	2.5	43	3.9	2.3	3.3	20	e0.60
15	2.1	1.3	1.7	4.0	3.6	2.2	6.0	2.9	2.1	e1.5	3.4	e0.50
16	1.5	1.3	1.6	2.7	2.8	38	3.7	2.6	2.0	e1.2	e2.0	e0.60
17	1.4	1.3	1.6	2.4	2.2	25	3.1	2.4	1.8	e1.1	e1.5	e1.2
18	2.9	1.3	1.6	2.3	1.9	5.7	3.1	2.3	1.8	e1.5	9.0	e0.80
19	1.8	2.8	1.6	2.0	1.8	3.9	3.2	2.2	1.8	e2.5	3.0	e0.70
20	1.6	1.3	1.6	2.0	3.8	3.3	2.5	42	1.6	e7.0	2.6	e0.60
21	1.3	1.3	1.8	2.0	19	3.0	2.5	3.6	1.4	25	e1.0	e0.60
22	1.3	1.3	1.7	1.8	4.0	29	7.4	2.9	1.4	17	e0.80	e0.60
23	1.2	e8.0	15	1.8	2.6	29	3.7	2.7	1.4	4.0	e150	e0.60
24	1.6	e6.4	2.5	1.6	27	5.3	2.2	2.3	1.4	2.7	5.9	e0.60
25	1.4	6.1	1.7	1.7	4.1	3.6	2.2	2.8	1.4	e2.0	e3.9	e0.50
26	1.1	2.0	1.6	1.8	2.7	3.0	2.2	2.0	15	e1.0	e3.5	e0.50
27	1.2	19	1.4	1.8	6.9	5.8	2.1	1.9	3.4	e0.80	e3.0	e0.50
28	1.2	12	1.4	1.6	85	103	2.1	1.9	31	e2.0	e2.6	e0.40
29	1.3	2.3	1.5	3.1	---	6.7	2.0	1.8	2.9	85	e2.4	e1.2
30	1.2	1.9	1.4	12	---	4.6	9.6	6.9	2.2	94	e2.6	e2.4
31	1.2	---	1.4	2.7	---	32	---	2.3	---	14	e2.8	---
TOTAL	109.2	145.9	123.6	172.1	252.2	376.9	271.6	378.7	269.4	601.50	306.40	26.40
MEAN	3.52	4.86	3.99	5.55	9.01	12.2	9.05	12.2	8.98	19.4	9.88	0.88
MAX	59	38	43	105	85	103	68	162	88	191	150	2.4
MIN	1.1	1.1	1.4	1.4	1.8	2.2	2.0	1.6	1.4	0.80	0.80	0.40
CFSM	0.51	0.70	0.57	0.80	1.30	1.75	1.30	1.76	1.29	2.79	1.42	0.13
IN.	0.58	0.78	0.66	0.92	1.35	2.02	1.45	2.03	1.44	3.22	1.64	0.14

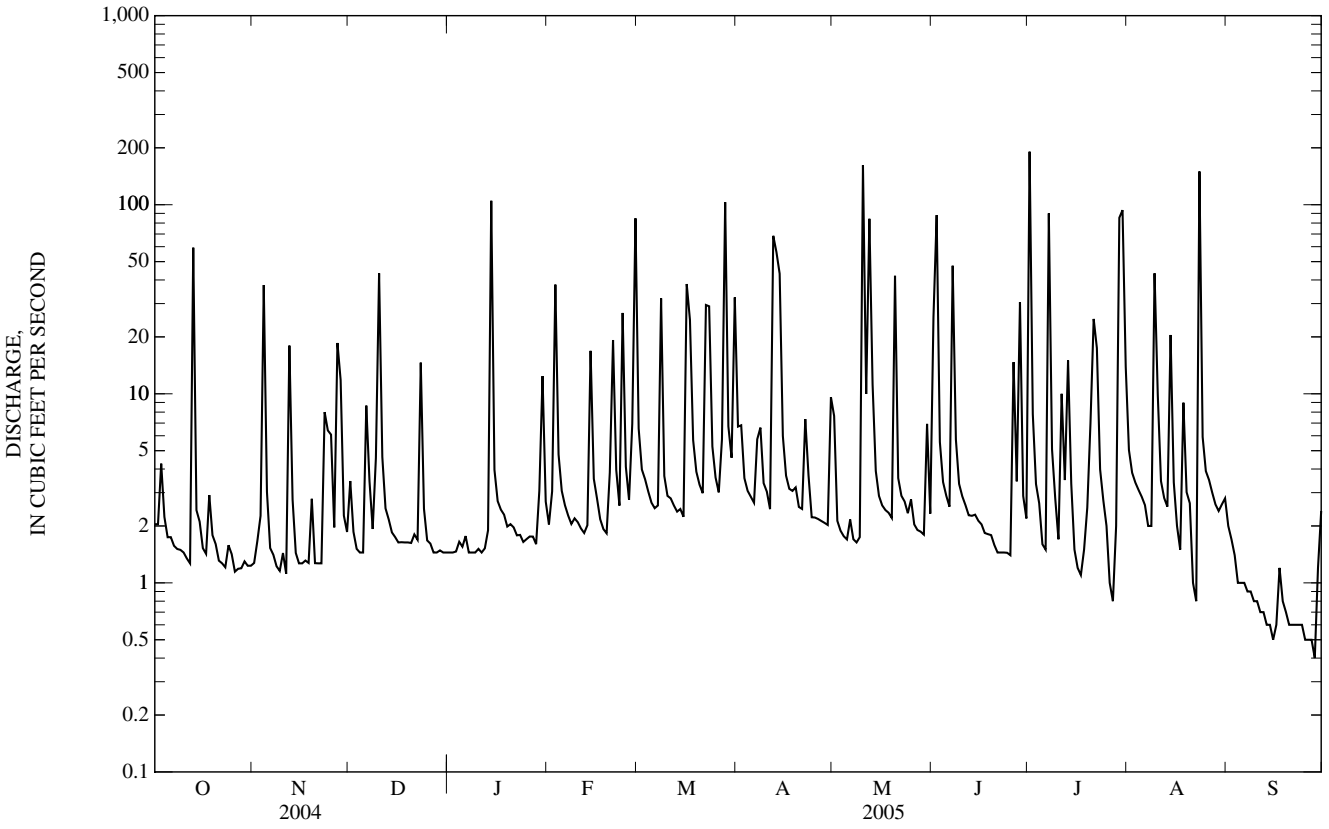
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)

MEAN	6.04	5.61	7.51	12.0	12.9	14.8	8.13	7.04	7.28	6.85	6.08	5.89
MAX	30.4	21.3	24.3	33.5	28.1	38.8	31.9	38.2	37.5	27.7	32.1	25.6
(WY)	(1991)	(1986)	(1977)	(1978)	(1979)	(1977)	(2003)	(2003)	(2003)	(1997)	(1995)	(2004)
MIN	0.21	0.54	0.86	1.02	1.77	1.74	1.13	1.08	0.75	0.61	0.24	0.08
(WY)	(1964)	(1970)	(1966)	(1981)	(1968)	(1985)	(1981)	(1962)	(1966)	(1963)	(1968)	(1970)

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005	
ANNUAL TOTAL	2,569.95		3,033.90			
ANNUAL MEAN	7.02		8.31		8.34	
HIGHEST ANNUAL MEAN					17.4	2003
LOWEST ANNUAL MEAN					3.19	1970
HIGHEST DAILY MEAN	219	Sep 7	191	Jul 1	868	Aug 27, 1995
LOWEST DAILY MEAN	0.53	Aug 10	0.40	Sep 28	0.00	Aug 31, 1962
ANNUAL SEVEN-DAY MINIMUM	0.68	Aug 4	0.53	Sep 22	0.01	Sep 19, 1968
MAXIMUM PEAK FLOW			2,320	Jul 1	3,470*	Aug 27, 1995
MAXIMUM PEAK STAGE			9.42	Jul 1	11.03	Aug 27, 1995
INSTANTANEOUS LOW FLOW			NOT DETERMINED		0.00*	Aug 31, 1962
ANNUAL RUNOFF (CFSM)	1.01		1.20		1.20	
ANNUAL RUNOFF (INCHES)	13.76		16.24		16.30	
10 PERCENT EXCEEDS	15		17		15	
50 PERCENT EXCEEDS	1.6		2.3		1.6	
90 PERCENT EXCEEDS	0.87		1.2		0.34	

* See REMARKS.
e Estimated.



02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC

LOCATION.--Lat 35°04'00", long 80°52'12", Mecklenburg County, Hydrologic Unit, 03050103, on right bank at McAlpine Creek Wastewater Treatment Plant of Charlotte, 150 ft downstream of McMullen Creek, 735 ft upstream from effluent outfall, and 2.1 mi south of Pineville.

DRAINAGE AREA.--92.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1974 to current year.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 515.51 above North American Vertical Datum of 1988. Prior to Oct. 1, 1977, present site at 516.51 ft above North American Vertical Datum of 1988. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Records for periods of heavy overbank flow may be affected by variable backwater not adequately defined. Maximum stage for period of record from high-water mark in gage house. Maximum discharge for period of record from rating curve extended above 11,600 ft^3/s.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage known since at least 1964, about 12.9 ft. (former datum), Apr. 1, 1973, from information by wastewater treatment plant operator.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46	19	40	21	36	342	295	107	75	392	62	17
2	37	19	36	21	33	86	109	38	1,870	633	25	11
3	32	20	27	21	321	58	73	28	868	47	18	9.5
4	39	212	26	23	219	48	50	25	86	27	14	8.2
5	27	175	24	23	57	43	44	24	45	21	13	8.1
6	24	35	49	24	42	39	40	28	34	18	12	7.8
7	24	25	105	24	36	36	50	26	123	352	11	7.6
8	21	22	39	23	36	438	52	23	90	396	11	7.6
9	21	19	33	23	35	119	52	22	42	34	86	7.5
10	20	18	419	23	33	55	36	150	27	22	65	7.6
11	19	18	166	23	29	46	33	742	35	23	40	7.3
12	18	68	55	23	28	42	79	83	21	48	37	7.0
13	860	124	38	22	27	38	1,220	844	21	63	34	6.6
14	172	32	32	1,050	100	43	935	77	20	76	407	6.3
15	44	24	28	197	125	38	156	43	18	20	500	6.1
16	30	22	26	58	45	238	72	34	15	15	35	8.2
17	23	21	25	44	64	664	53	29	15	13	21	16
18	22	20	26	35	38	135	47	26	12	12	400	8.5
19	24	21	26	32	33	72	42	24	12	14	124	7.6
20	22	20	24	32	34	53	37	764	12	29	28	7.1
21	22	20	22	32	166	47	34	141	12	22	19	6.9
22	21	20	22	32	142	61	38	43	11	44	15	6.8
23	20	103	76	32	50	426	65	33	10	44	526	6.6
24	22	96	59	28	289	125	34	28	9.8	14	684	6.4
25	24	163	30	27	107	65	30	25	9.3	9.7	49	6.2
26	20	41	25	26	53	50	28	23	23	8.2	25	5.9
27	19	35	24	26	44	47	28	23	77	7.5	19	5.5
28	19	311	22	24	1,120	1,080	27	22	136	8.1	16	5.1
29	20	64	22	27	---	315	26	20	126	247	14	6.6
30	21	37	22	121	---	83	55	52	25	385	18	29
31	20	---	22	69	---	206	---	45	---	393	46	---
TOTAL	1,753	1,824	1,590	2,186	3,342	5,138	3,840	3,592	3,880.1	3,437.5	3,374	257.6
MEAN	56.5	60.8	51.3	70.5	119	166	128	116	129	111	109	8.59
MAX	860	311	419	1,050	1,120	1,080	1,220	844	1,870	633	684	29
MIN	18	18	22	21	27	36	26	20	9.3	7.5	11	5.1
CFSM	0.61	0.66	0.56	0.76	1.29	1.79	1.39	1.25	1.40	1.20	1.18	0.09
IN.	0.71	0.73	0.64	0.88	1.35	2.07	1.55	1.45	1.56	1.38	1.36	0.10

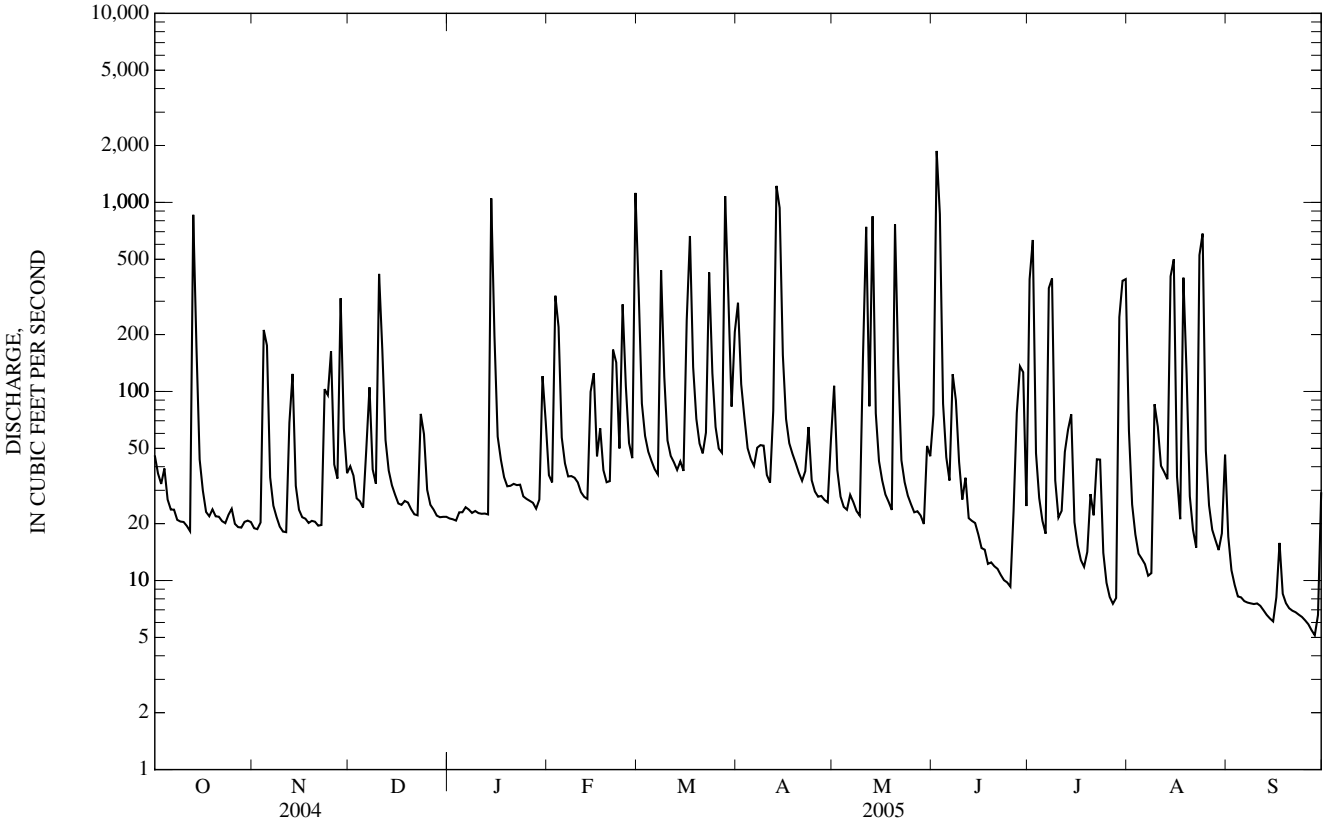
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2005, BY WATER YEAR (WY)

MEAN	96.0	99.0	121	211	205	240	131	99.0	87.0	93.8	103	89.5
MAX	540	414	497	550	506	544	439	428	466	400	597	510
(WY)	(1991)	(1986)	(1984)	(1978)	(1984)	(1980)	(2003)	(2003)	(2003)	(1997)	(1994)	(1987)
MIN	6.82	8.44	24.0	18.6	39.0	35.8	21.9	13.8	7.43	7.07	7.95	5.03
(WY)	(1979)	(2002)	(1981)	(1981)	(1978)	(1981)	(1981)	(2004)	(1986)	(1977)	(2001)	(1983)

02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1974 - 2005	
ANNUAL TOTAL	34,068.2		34,214.2			
ANNUAL MEAN	93.1		93.7		132	
HIGHEST ANNUAL MEAN					236	2003
LOWEST ANNUAL MEAN					51.4	2001
HIGHEST DAILY MEAN	3,530	Sep 8	1,870	Jun 2	7,740	Aug 27, 1995
LOWEST DAILY MEAN	4.9	May 29	5.1	Sep 28	0.46	Sep 30, 1983
ANNUAL SEVEN-DAY MINIMUM	5.9	May 24	6.0	Sep 23	0.76	Sep 28, 1983
MAXIMUM PEAK FLOW			3,330	Jun 2	12,500*	Aug 27, 1995
MAXIMUM PEAK STAGE			10.46	Jun 2	19.40*	Aug 27, 1995
INSTANTANEOUS LOW FLOW			4.7	Sep 29	0.45	Sep 30, 1983
ANNUAL RUNOFF (CFSM)	1.01		1.01		1.42	
ANNUAL RUNOFF (INCHES)	13.72		13.77		19.34	
10 PERCENT EXCEEDS	176		208		265	
50 PERCENT EXCEEDS	23		32		32	
90 PERCENT EXCEEDS	10		11		8.6	

* See REMARKS.



02146750 MCALPINE CREEK BELOW MCMULLEN CREEK NEAR PINEVILLE, NC—Continued

PRECIPITATION RECORDS

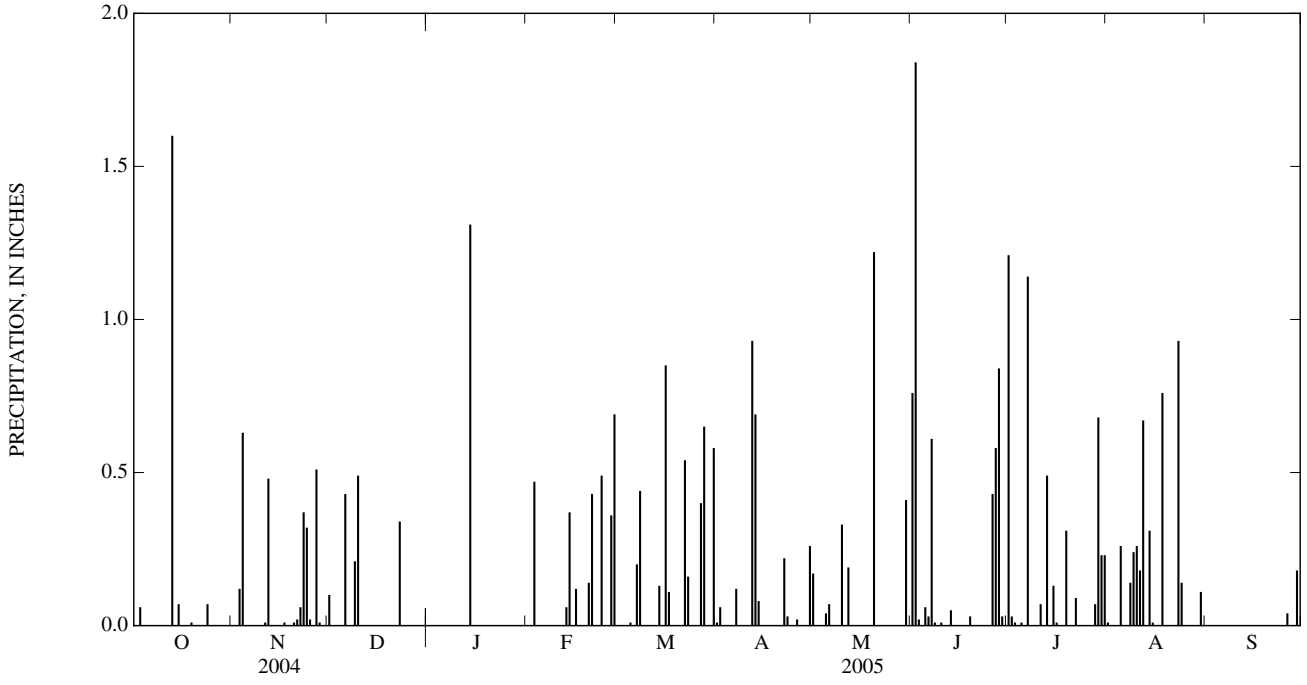
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.17	0.76	1.21	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	1.84	0.03	0.00	0.00
3	0.06	0.12	0.00	0.00	0.47	0.00	0.00	0.00	0.02	0.01	0.00	0.00
4	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04	0.06	0.01	0.26	0.00
6	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.07	0.03	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.20	0.12	0.00	0.61	1.14	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.01	0.00	0.14	0.00
9	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00
10	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.33	0.01	0.00	0.26	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.18	0.00
12	0.00	0.48	0.00	0.00	0.00	0.00	0.93	0.19	0.00	0.00	0.67	0.00
13	1.60	0.00	0.00	0.00	0.06	0.00	0.69	0.00	0.05	0.49	0.00	0.00
14	0.00	0.00	0.00	1.31	0.37	0.13	0.08	0.00	0.00	0.00	0.31	0.00
15	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.01	0.00
16	0.00	0.00	0.00	0.00	0.12	0.85	0.00	0.00	0.00	0.01	0.00	0.00
17	0.00	0.01	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.31	0.00	0.00
20	0.00	0.01	0.00	0.00	0.14	0.00	0.00	1.22	0.00	0.00	0.00	0.00
21	0.00	0.02	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.06	0.00	0.00	0.00	0.54	0.22	0.00	0.00	0.09	0.00	0.00
23	0.00	0.37	0.34	0.00	0.00	0.16	0.03	0.00	0.00	0.00	0.93	0.00
24	0.07	0.32	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.14	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.43	0.00	0.00	0.04
27	0.00	0.51	0.00	0.00	0.36	0.40	0.00	0.00	0.58	0.00	0.00	0.00
28	0.00	0.01	0.00	---	0.69	0.65	0.00	0.00	0.84	0.07	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.03	0.68	0.00	0.18
30	0.00	0.00	0.00	---	---	0.00	0.26	0.41	0.00	0.23	0.11	0.00
31	0.00	---	0.00	---	---	0.58	---	0.00	---	0.23	0.00	---
TOTAL	1.81	2.57	1.57	---	3.13	4.07	2.42	2.43	5.30	4.71	4.02	0.22



0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC

LOCATION.--Lat 35°06'18", long 80°57'13", Mecklenburg County, Hydrologic Unit 03050103, on right bank on upstream side of culvert on Secondary Road 1441 (Carowinds Blvd.), and 4.5 mi west of Pineville.

DRAINAGE AREA.--6.73 mi^2.

PERIOD OF RECORD.-- May 1998 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 562.23 ft above NGVD of 1929, from levels. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for current water year also occurred Sept. 19. Minimum discharge for period of record also occurred Aug. 17, 19, 20, 22, 23, 27, 28, 30, 2001.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.86	0.53	2.5	1.2	2.0	10	11	7.3	19	1.3	3.6	0.21
2	0.70	0.64	1.5	1.2	1.5	5.3	8.3	1.8	56	1.4	1.6	0.20
3	0.58	1.4	1.2	1.2	30	3.6	4.9	1.3	5.0	1.2	1.1	0.22
4	0.63	16	0.96	1.2	7.5	2.9	3.5	1.1	2.3	0.93	1.1	0.23
5	0.52	2.2	0.91	1.2	3.6	2.5	3.2	1.1	1.5	0.62	1.8	0.24
6	0.43	0.75	8.4	1.2	2.5	2.0	2.8	1.7	2.6	0.57	1.1	0.85
7	0.38	0.57	5.2	1.2	2.0	2.0	3.8	1.1	1.7	39	0.72	0.30
8	0.35	0.43	2.0	1.2	1.8	27	3.8	0.99	3.4	4.8	15	0.30
9	0.30	0.52	4.6	1.1	1.8	5.4	2.7	0.88	1.7	1.2	78	0.32
10	0.26	2.4	100	1.1	1.8	3.5	2.1	13	0.90	0.93	7.0	0.29
11	0.27	0.66	8.5	1.2	1.5	2.9	2.0	5.1	0.86	1.6	5.1	0.24
12	0.31	9.7	4.3	1.2	1.3	2.4	58	7.9	0.63	1.7	4.2	0.29
13	18	2.4	2.9	1.2	1.4	2.2	38	6.2	0.63	1.5	2.0	0.23
14	1.1	0.75	2.1	69	8.8	2.2	37	1.7	0.62	1.0	1.0	0.22
15	0.53	0.50	1.7	5.7	3.5	10	7.4	1.2	0.54	0.66	0.81	0.21
16	0.41	2.1	1.6	3.3	2.0	27	4.5	1.0	0.41	0.85	0.63	0.64
17	0.32	0.78	1.5	2.3	1.5	28	3.3	0.91	0.35	0.55	4.3	0.56
18	0.27	0.46	1.4	1.7	1.3	8.0	2.7	0.79	0.36	0.49	41	0.20
19	0.27	0.43	1.5	1.7	1.2	4.6	2.4	0.72	4.6	0.47	2.5	0.16
20	0.27	0.55	1.2	1.6	2.1	3.6	2.1	29	1.3	0.40	1.1	0.19
21	0.26	0.52	1.3	1.5	19	2.9	1.8	2.7	0.55	0.48	0.79	1.1
22	0.27	0.54	1.3	1.3	6.5	23	6.9	1.3	0.57	1.9	0.65	0.19
23	0.38	9.5	16	1.3	3.0	46	5.0	1.1	0.39	2.0	11	0.23
24	0.64	14	3.7	1.1	22	9.1	2.0	0.85	0.33	0.52	2.6	0.25
25	0.37	5.9	2.1	1.2	5.8	5.2	1.7	0.69	0.30	0.38	0.94	0.24
26	0.31	1.6	1.7	1.2	3.3	3.6	1.4	0.63	6.5	0.36	0.62	0.21
27	0.30	9.9	1.4	1.2	4.5	8.3	1.5	0.60	13	0.34	0.51	0.28
28	0.34	11	1.3	1.1	83	248	1.3	0.67	35	4.0	0.46	0.27
29	0.39	2.4	1.3	1.7	---	12	2.2	0.55	4.2	50	0.39	4.7
30	0.35	1.6	1.2	14	---	6.5	9.0	5.0	1.5	30	0.37	1.2
31	0.47	---	1.2	3.9	---	28	---	1.2	---	12	0.30	---
TOTAL	30.84	100.73	186.47	130.2	226.2	547.7	236.3	100.08	166.74	163.15	192.29	14.77
MEAN	0.99	3.36	6.02	4.20	8.08	17.7	7.88	3.23	5.56	5.26	6.20	0.49
MAX	18	16	100	69	83	248	58	29	56	50	78	4.7
MIN	0.26	0.43	0.91	1.1	1.2	2.0	1.3	0.55	0.30	0.34	0.30	0.16
CFSM	0.15	0.50	0.89	0.62	1.20	2.63	1.17	0.48	0.83	0.78	0.92	0.07
IN.	0.17	0.56	1.03	0.72	1.25	3.03	1.31	0.55	0.92	0.90	1.06	0.08

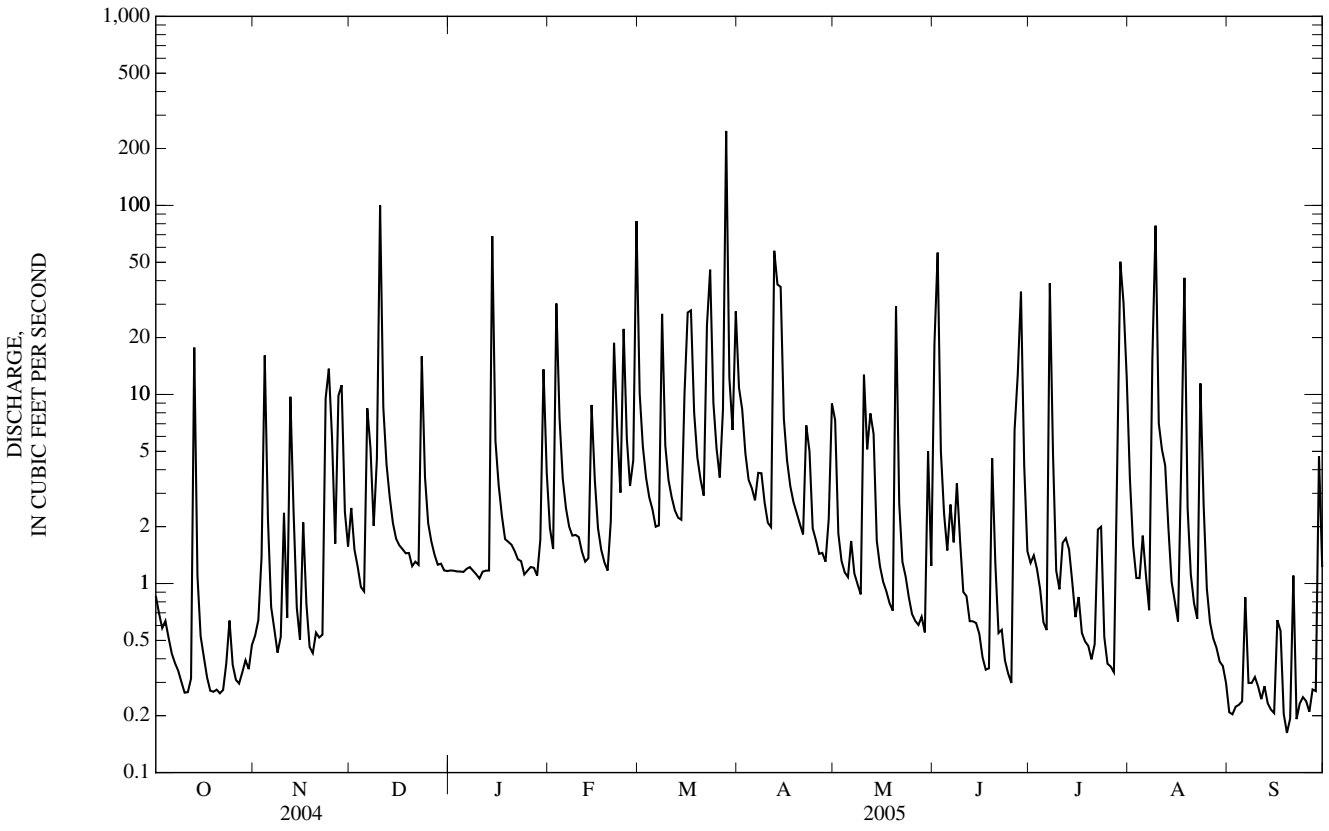
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2005, BY WATER YEAR (WY)

MEAN	4.41	3.25	5.69	6.87	8.33	13.9	9.39	7.36	5.31	6.79	4.70	4.84
MAX	15.4	10.5	19.9	14.2	12.8	34.6	36.5	42.1	16.3	28.6	14.8	13.5
(WY)	(2000)	(2003)	(2003)	(1999)	(2000)	(2003)	(2003)	(2003)	(2003)	(1998)	(2003)	(2004)
MIN	0.81	1.16	1.61	1.67	3.28	3.06	2.26	0.93	0.76	1.63	0.28	0.49
(WY)	(2001)	(2004)	(2002)	(2004)	(2002)	(1999)	(2001)	(2000)	(2002)	(1999)	(2001)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1998 - 2005	
ANNUAL TOTAL	1,931.72		2,095.47			
ANNUAL MEAN	5.28		5.74		6.59	
HIGHEST ANNUAL MEAN					17.6	2003
LOWEST ANNUAL MEAN					3.40	2002
HIGHEST DAILY MEAN	113	Sep 8	248	Mar 28	519	Mar 20, 2003
LOWEST DAILY MEAN	0.22	Jul 23	0.16	Sep 19	0.05	Aug 20, 2001
ANNUAL SEVEN-DAY MINIMUM	0.29	Oct 17	0.24	Sep 22	0.06	Aug 25, 2001
MAXIMUM PEAK FLOW			919	Mar 28	2,450	Jul 27, 1998
MAXIMUM PEAK STAGE			7.98	Mar 28	11.44	Jul 27, 1998
INSTANTANEOUS LOW FLOW			0.12*	Sep 18	0.04*	Aug 16, 2001
ANNUAL RUNOFF (CFSM)	0.784		0.853		0.979	
ANNUAL RUNOFF (INCHES)	10.68		11.58		13.30	
10 PERCENT EXCEEDS	12		11		12	
50 PERCENT EXCEEDS	1.4		1.4		1.4	
90 PERCENT EXCEEDS	0.38		0.32		0.38	

* See REMARKS.

0214678175 STEELE CREEK AT SECONDARY ROAD 1441 NEAR PINEVILLE, NC—Continued



02147126 WAXHAW CREEK AT SECONDARY ROAD 1103 NEAR JACKSON, NC

LOCATION.--Lat 34°50'13", long 80°47'30", Union County, Hydrologic Unit 03050103, on right upstream wingwall on Secondary Road 1103, 6 mi upstream from mouth, 6 mi southwest of Jackson and 6.5 mi south of Waxhaw.

DRAINAGE AREA.--35.0 mi^2.

PERIOD OF RECORD.--May 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 480.33 ft above North American Vertical Datum of 1988, from levels. Satellite telemetry at site.

REMARKS.-No estimated daily discharges. Records fair. Peak stage for period of record from crest-stage gage. Peak discharge for period of record from rating curve extended above 1,200 ft^3/s on basis of step-backwater computations. No flow also occurred many days in June, July, Aug., and Sept. 2002, and Oct. 7-10, 2002. Minimum discharge for current water year also occurred Sept. 16.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	7.5	13	8.1	18	171	115	11	6.7	9.1	28	1.8
2	17	6.5	15	7.8	14	44	51	9.1	88	8.6	9.6	1.6
3	33	7.1	13	8.0	46	30	36	7.8	66	6.9	4.4	1.6
4	280	9.9	11	7.9	141	24	27	7.2	17	6.4	3.3	1.5
5	41	20	9.3	8.1	40	21	22	7.3	9.6	5.7	2.7	1.3
6	20	13	9.9	8.2	26	18	19	7.5	6.8	5.0	2.4	1.2
7	14	8.8	14	7.9	20	16	18	7.5	5.5	5.6	2.1	1.1
8	11	7.8	14	8.4	18	43	20	7.1	28	10	2.6	1.1
9	9.1	7.8	12	8.1	17	45	25	6.4	84	6.2	6.5	1.0
10	8.0	8.2	89	7.5	16	25	19	6.1	25	4.8	9.6	1.1
11	7.0	9.2	102	7.0	13	20	15	8.0	11	4.3	3.7	1.1
12	6.4	12	31	7.0	12	17	17	8.4	7.5	4.1	2.7	0.95
13	7.7	19	21	7.2	11	15	204	6.3	6.7	3.8	2.4	0.83
14	7.2	11	16	215	14	15	258	6.2	6.6	3.7	23	0.76
15	7.3	7.5	13	180	28	14	80	5.9	5.5	3.6	22	0.71
16	7.5	6.5	11	38	20	89	34	5.1	4.5	3.3	5.1	0.69
17	7.0	6.3	11	25	59	457	24	5.0	3.9	3.3	3.6	0.80
18	6.9	6.2	11	18	33	130	20	5.0	3.4	3.0	4.2	0.86
19	8.0	6.1	11	15	18	48	17	5.1	3.2	2.9	8.0	0.87
20	8.0	6.2	9.8	15	15	35	15	9.1	2.9	2.7	6.6	0.87
21	7.2	6.2	8.8	15	22	28	13	11	2.7	2.5	4.0	0.85
22	7.0	6.4	8.8	13	63	25	13	6.7	2.6	2.4	4.0	0.83
23	6.3	9.8	12	12	32	38	13	5.5	2.5	2.3	4.8	0.78
24	7.2	14	15	10	35	44	11	4.8	2.3	2.2	4.7	0.77
25	7.4	17	13	10	50	27	10	4.3	2.0	2.0	3.4	0.77
26	6.9	14	10	11	28	22	9.6	4.1	2.2	1.9	2.7	0.84
27	6.7	10	9.0	10	21	22	10	3.8	2.5	1.7	2.4	0.86
28	6.9	18	8.2	8.9	163	285	9.4	3.5	28	1.6	2.2	0.79
29	8.1	19	8.1	8.9	---	228	8.8	3.3	160	4.7	2.1	0.84
30	8.7	12	8.3	17	---	44	9.2	4.7	17	7.6	2.0	1.0
31	8.7	---	8.2	30	---	52	---	5.4	---	11	2.0	---
TOTAL	607.2	313.0	546.4	753.0	993	2,092	1,143.0	198.2	613.6	142.9	186.8	30.07
MEAN	19.6	10.4	17.6	24.3	35.5	67.5	38.1	6.39	20.5	4.61	6.03	1.00
MAX	280	20	102	215	163	457	258	11	160	11	28	1.8
MIN	6.3	6.1	8.1	7.0	11	14	8.8	3.3	2.0	1.6	2.0	0.69
CFSM	0.56	0.30	0.50	0.69	1.01	1.93	1.09	0.18	0.58	0.13	0.17	0.03
IN.	0.65	0.33	0.58	0.80	1.06	2.22	1.21	0.21	0.65	0.15	0.20	0.03

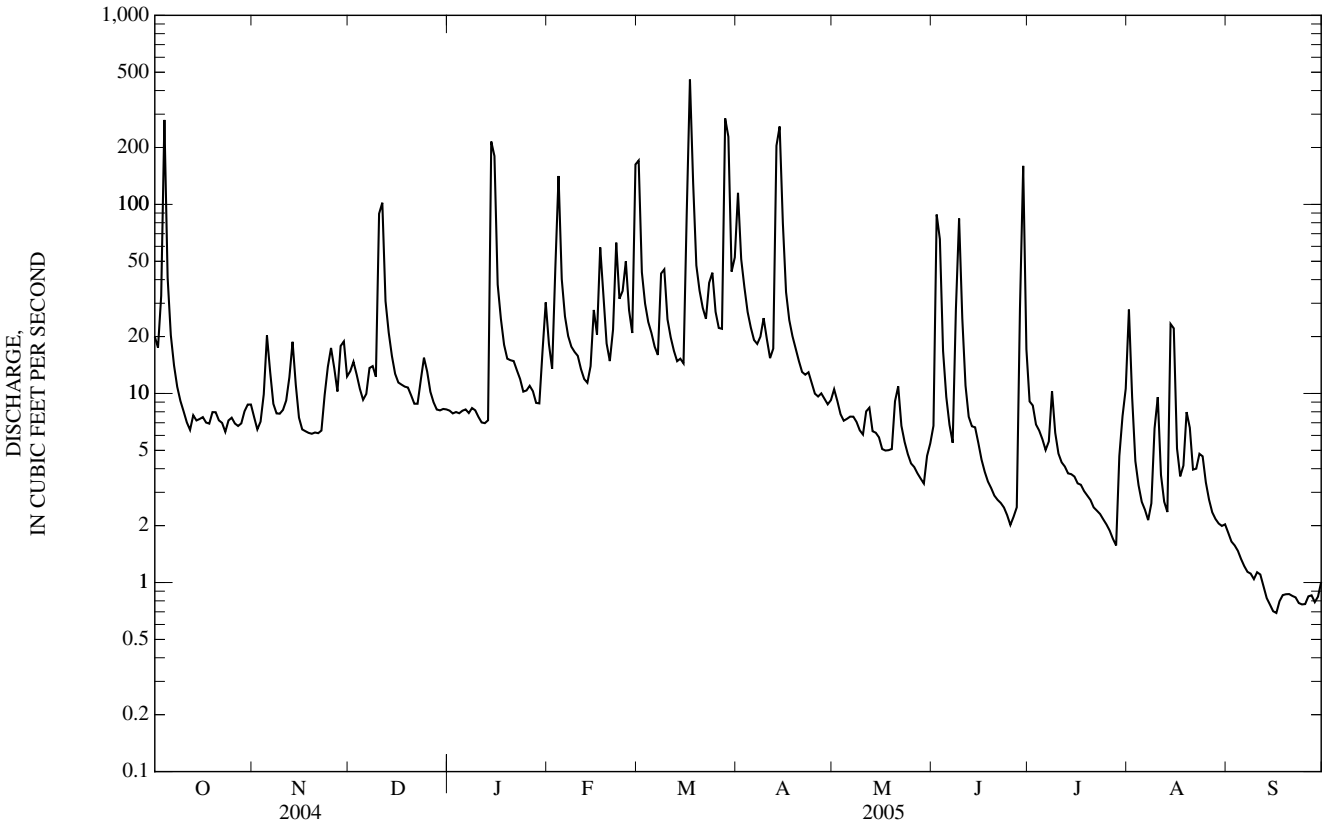
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	11.7	17.3	31.4	16.2	58.8	91.3	76.3	12.4	16.6	15.6	17.3	31.7
MAX	19.6	36.3	65.7	24.3	104	176	180	36.0	38.2	53.0	34.2	112
(WY)	(2005)	(2003)	(2003)	(2005)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	4.06	5.26	10.8	6.15	35.5	30.5	10.6	3.45	2.23	0.61	0.12	1.00
(WY)	(2004)	(2004)	(2004)	(2004)	(2005)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2005)

02147126 WAXHAW CREEK AT SECONDARY ROAD 1103 NEAR JACKSON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	8,692.71		7,619.17			
ANNUAL MEAN	23.8		20.9		35.0	
HIGHEST ANNUAL MEAN					62.9	2003
LOWEST ANNUAL MEAN					20.9	2005
HIGHEST DAILY MEAN	1,070	Sep 8	457	Mar 17	1,600	Mar 20, 2003
LOWEST DAILY MEAN	0.09	Aug 11	0.69	Sep 16	0.00	Jun 24, 2002
ANNUAL SEVEN-DAY MINIMUM	0.35	Aug 5	0.79	Sep 13	0.00	Jun 24, 2002
MAXIMUM PEAK FLOW			582	Mar 28	2,880*	Mar 20, 2003
MAXIMUM PEAK STAGE			7.22	Mar 28	10.71*	Mar 20, 2003
INSTANTANEOUS LOW FLOW			0.61*	Sep 15	0.00*	Jun 21, 2002
ANNUAL RUNOFF (CFSM)	0.679		0.596		1.00	
ANNUAL RUNOFF (INCHES)	9.24		8.10		13.60	
10 PERCENT EXCEEDS	30		38		58	
50 PERCENT EXCEEDS	7.2		8.7		8.1	
90 PERCENT EXCEEDS	1.2		2.0		1.9	

* See REMARKS.



02149000 COVE CREEK NEAR LAKE LURE, NC

LOCATION.--Lat 35°25'24", long 82°06'41", Rutherford County, Hydrologic Unit 03050105, on left bank 40 ft upstream from bridge on U.S. Highways 64 and 74, 1.0 mi upstream from mouth, and 5.0 mi east of town of Lake Lure.

DRAINAGE AREA.--79.0 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-50. October 1950 to current year. Monthly discharge only for some periods, published in WSP 1723.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 815.4 ft above NGVD of 1929. Prior to Dec. 20, 1954, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record also occurred Aug. 15, 2002. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 reached a stage of about 23 ft, from records of North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	109	172	146	133	249	211	135	e120	165	167	117
2	188	109	151	142	129	191	245	125	e230	151	141	111
3	176	120	144	139	164	171	210	123	e160	259	131	107
4	164	453	138	137	152	160	189	122	138	522	125	103
5	153	273	133	136	142	153	177	125	119	276	120	100
6	146	183	141	135	136	145	168	124	134	265	118	97
7	142	157	159	131	133	141	175	119	145	1,670	141	97
8	136	143	143	135	132	143	226	116	128	676	483	95
9	134	132	275	127	131	131	192	113	117	342	322	93
10	132	126	394	126	129	130	175	111	117	253	362	91
11	127	123	264	124	123	e128	166	111	160	293	217	90
12	126	259	208	123	123	e126	165	106	235	356	174	88
13	191	225	182	145	123	e124	213	106	516	306	157	88
14	134	176	163	706	130	e130	366	107	258	416	146	86
15	127	157	152	270	125	120	263	115	178	488	140	84
16	121	147	146	210	123	129	212	112	144	305	132	83
17	115	139	143	182	119	140	191	103	128	253	138	84
18	115	134	139	165	115	131	179	102	119	227	151	81
19	120	131	136	158	114	125	169	119	115	212	146	79
20	118	127	128	155	119	122	161	148	120	211	139	78
21	116	124	126	151	186	119	154	118	124	184	127	78
22	118	121	126	145	178	122	163	107	109	181	132	77
23	127	138	656	139	149	203	175	102	102	182	177	76
24	126	265	377	132	148	167	149	97	97	160	133	75
25	118	300	251	135	137	148	143	94	94	153	124	75
26	113	197	208	134	130	140	140	93	98	145	119	87
27	114	172	183	129	128	153	143	e93	184	140	116	85
28	116	171	168	123	314	1,290	133	e92	171	146	114	78
29	120	151	163	129	---	430	132	e92	136	149	124	79
30	116	144	157	148	---	278	142	e91	263	145	156	74
31	112	---	150	143	---	233	---	e90	---	195	147	---
TOTAL	4,171	5,206	6,076	5,100	3,965	6,172	5,527	3,411	4,759	9,426	5,119	2,636
MEAN	135	174	196	165	142	199	184	110	159	304	165	87.9
MAX	210	453	656	706	314	1,290	366	148	516	1,670	483	117
MIN	112	109	126	123	114	119	132	90	94	140	114	74
CFSM	1.70	2.20	2.48	2.08	1.79	2.52	2.33	1.39	2.01	3.85	2.09	1.11
IN.	1.96	2.45	2.86	2.40	1.87	2.91	2.60	1.61	2.24	4.44	2.41	1.24

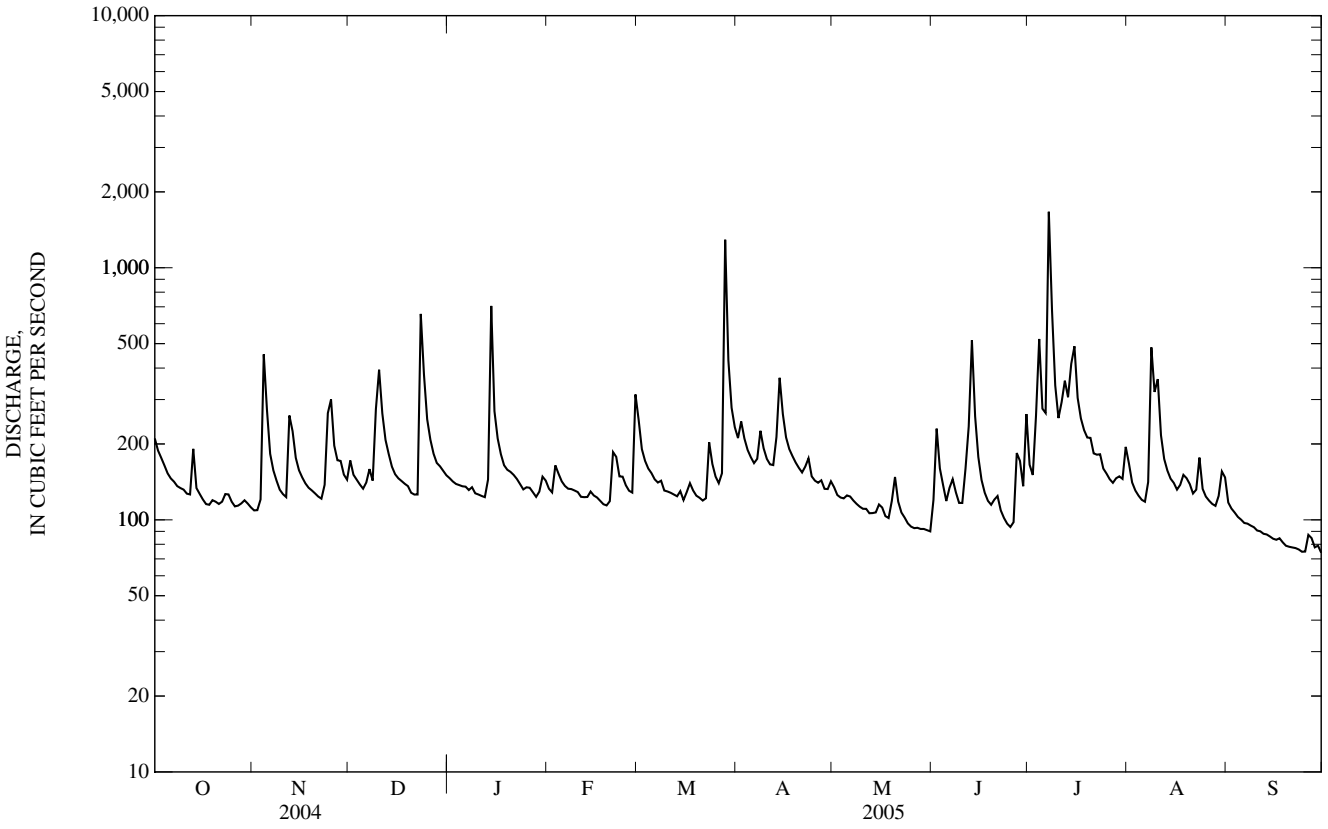
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)

MEAN	110	116	127	140	165	192	181	146	130	103	110	102
MAX	381	334	278	314	335	479	391	384	309	308	396	486
(WY)	(1965)	(1993)	(1984)	(1993)	(1998)	(1979)	(1980)	(1975)	(1992)	(2003)	(2003)	(2004)
MIN	24.5	33.1	38.2	39.5	52.5	68.6	59.0	39.4	33.6	24.8	21.3	24.5
(WY)	(1955)	(1955)	(1989)	(1956)	(2002)	(1988)	(2002)	(2002)	(2002)	(2002)	(2002)	(1954)

02149000 COVE CREEK NEAR LAKE LURE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005	
ANNUAL TOTAL	57,611		61,568			
ANNUAL MEAN	157		169		135	
HIGHEST ANNUAL MEAN					231	1993
LOWEST ANNUAL MEAN					43.7	2002
HIGHEST DAILY MEAN	4,340	Sep 8	1,670	Jul 7	4,340	Sep 8, 2004
LOWEST DAILY MEAN	55	Jul 24	74	Sep 30	8.1	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	61	Jul 18	77	Sep 19	9.2	Aug 9, 2002
MAXIMUM PEAK FLOW			4,230	Jul 7	7,050	Jun 5, 1957
MAXIMUM PEAK STAGE			13.74	Jul 7	18.53	Jun 5, 1957
INSTANTANEOUS LOW FLOW			72*	Sep 25	7.7*	Aug 14, 2002
ANNUAL RUNOFF (CFSM)	1.99		2.14		1.71	
ANNUAL RUNOFF (INCHES)	27.13		28.99		23.29	
10 PERCENT EXCEEDS	212		258		227	
50 PERCENT EXCEEDS	114		138		104	
90 PERCENT EXCEEDS	72		99		48	

* See REMARKS.
e Estimated.



02150495 SECOND BROAD RIVER NEAR LOGAN, NC

LOCATION.--Lat 35°24'16", long 81°52'21", Rutherford County, Hydrologic Unit 03050105, on right bank 30 ft downstream of bridge on Secondary Road 1538, 2.2 mi southeast of Logan, and 2.7 mi upstream from Catheys Creek.

DRAINAGE AREA.--86.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1998 to current year.
REVISED RECORDS.--WDR NC-03-1B: 2000 (M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 840 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum peak stage for current water year from crest-stage gage. Minimum discharge for current year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	95	155	139	131	285	207	132	105	169	145	81
2	139	96	144	135	126	214	212	123	200	134	108	76
3	137	117	137	132	150	180	188	119	145	149	97	74
4	125	723	131	132	146	161	172	115	124	215	91	72
5	116	373	127	130	138	151	160	117	110	205	87	69
6	110	232	128	129	133	142	153	118	104	187	86	68
7	106	179	147	126	130	138	152	115	124	1,780	100	68
8	103	153	137	131	130	142	168	112	146	1,180	149	68
9	101	136	263	125	129	130	164	110	174	401	126	67
10	99	128	488	122	127	127	150	107	136	269	111	66
11	96	123	317	120	120	124	144	107	143	225	100	65
12	95	261	237	120	120	121	144	104	127	265	92	65
13	187	280	194	122	120	119	226	103	150	271	89	66
14	126	206	169	435	124	124	441	107	138	248	86	69
15	112	172	154	243	122	116	298	119	118	259	85	65
16	102	156	145	194	122	123	225	123	105	193	82	66
17	98	145	139	167	119	134	190	107	97	164	81	68
18	96	134	136	152	114	127	173	104	123	147	109	65
19	102	127	135	144	113	121	162	104	130	136	98	61
20	102	123	127	143	116	119	153	139	112	126	88	62
21	99	119	123	140	165	116	146	120	129	120	84	60
22	98	117	122	137	184	117	148	107	106	115	83	60
23	99	126	451	133	156	193	164	104	97	111	131	60
24	103	191	364	126	158	180	143	100	91	106	95	58
25	99	295	249	128	148	156	137	97	88	100	87	58
26	96	201	203	128	140	143	134	95	90	95	83	63
27	98	168	174	125	136	143	137	93	163	91	81	67
28	97	158	156	119	338	1,230	128	94	164	91	80	61
29	99	140	150	124	---	453	126	95	167	113	80	62
30	100	131	146	141	---	298	133	96	305	105	94	58
31	96	---	141	142	---	238	---	92	---	138	101	---
TOTAL	3,391	5,605	5,889	4,584	3,955	6,165	5,278	3,378	4,011	7,908	3,009	1,968
MEAN	109	187	190	148	141	199	176	109	134	255	97.1	65.6
MAX	187	723	488	435	338	1,230	441	139	305	1,780	149	81
MIN	95	95	122	119	113	116	126	92	88	91	80	58
CFSM	1.27	2.17	2.20	1.72	1.64	2.31	2.04	1.26	1.55	2.96	1.13	0.76
IN.	1.46	2.42	2.54	1.98	1.71	2.66	2.28	1.46	1.73	3.41	1.30	0.85

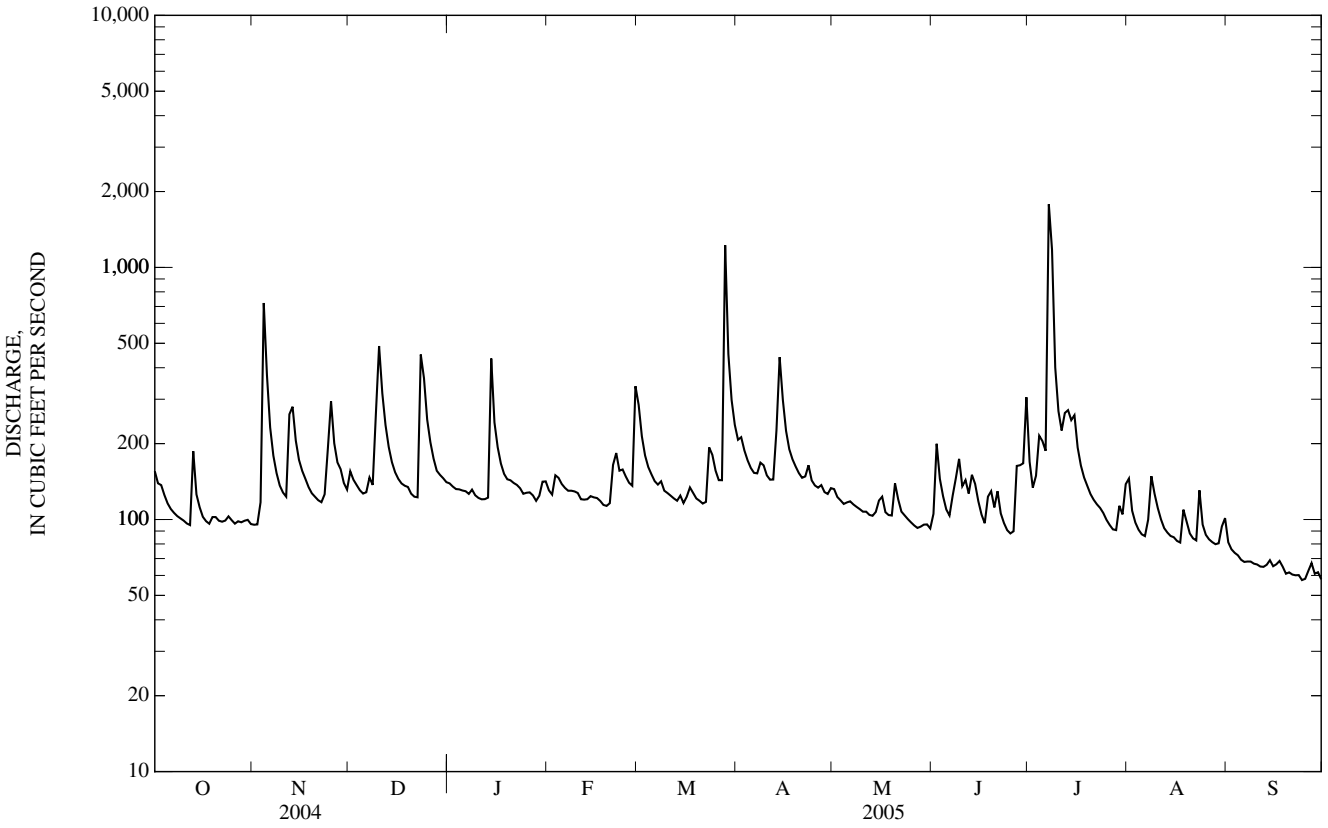
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	66.3	88.7	106	91.2	116	133	147	102	104	116	93.6	103
MAX	122	187	190	148	202	216	368	276	275	275	384	349
(WY)	(2004)	(2005)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	25.5	33.8	46.2	50.8	57.7	88.8	66.2	34.4	31.1	21.4	13.9	27.9
(WY)	(2001)	(2002)	(2002)	(2001)	(2001)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02150495 SECOND BROAD RIVER NEAR LOGAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	56,066		55,141			
ANNUAL MEAN	153		151		105	
HIGHEST ANNUAL MEAN					205	2003
LOWEST ANNUAL MEAN					46.2	2002
HIGHEST DAILY MEAN	3,320	Sep 8	1,780	Jul 7	3,320	Sep 8, 2004
LOWEST DAILY MEAN	65	Aug 9	58	Sep 24	6.6	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	69	Aug 5	60	Sep 19	8.0	Sep 7, 2002
MAXIMUM PEAK FLOW			4,300	Jul 7	4,450	Sep 8, 2004
MAXIMUM PEAK STAGE			15.71*	Jul 7	15.91	Sep 8, 2004
INSTANTANEOUS LOW FLOW			54*	Sep 25	6.1	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	1.78		1.75		1.22	
ANNUAL RUNOFF (INCHES)	24.20		23.80		16.62	
10 PERCENT EXCEEDS	243		214		181	
50 PERCENT EXCEEDS	108		127		75	
90 PERCENT EXCEEDS	79		83		28	

* See REMARKS.



02150495 SECOND BROAD RIVER NEAR LOGAN, NC—Continued

PRECIPITATION RECORDS

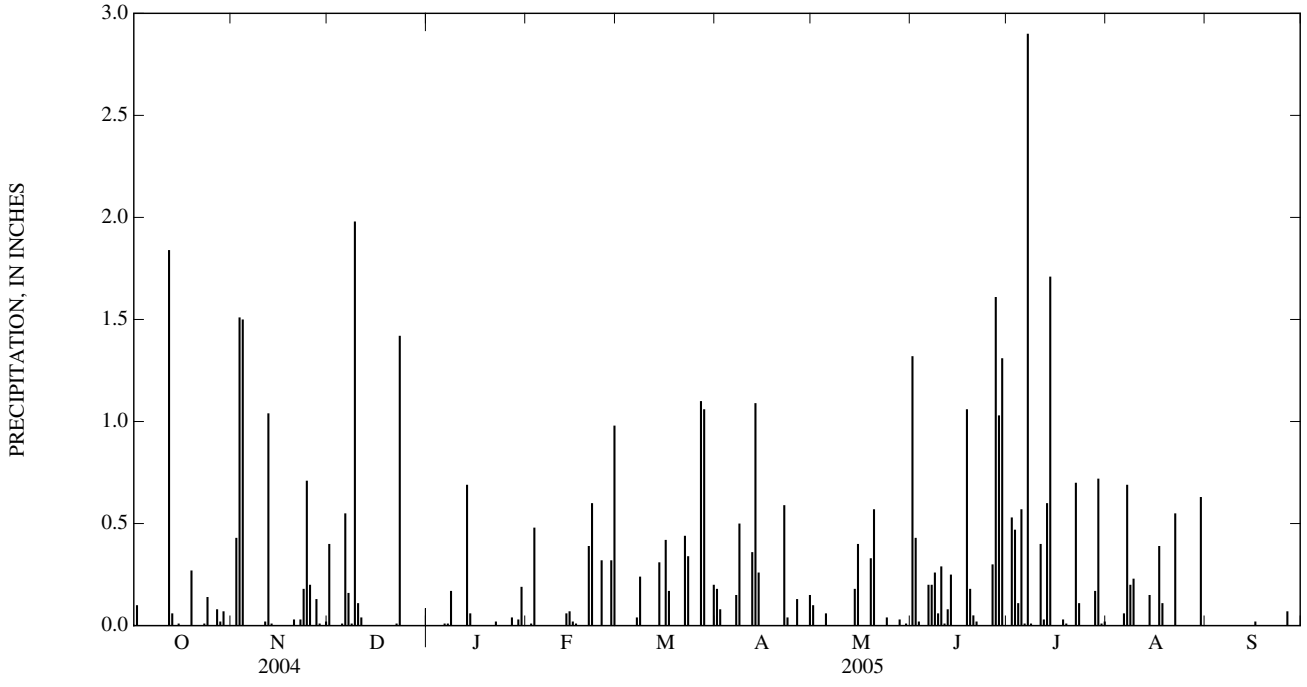
PERIOD OF RECORD.--November 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.40	0.00	0.00	0.00	0.18	0.10	1.32	0.00	0.00	0.00
2	0.10	0.43	0.00	0.00	0.01	0.00	0.08	0.00	0.43	0.53	0.00	0.00
3	0.00	1.51	0.00	0.00	0.48	0.00	0.00	0.00	0.02	0.47	0.00	0.00
4	0.00	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.57	0.00	0.00
6	0.00	0.00	0.55	0.01	0.00	0.00	0.00	0.00	0.20	0.01	0.06	0.00
7	0.00	0.00	0.16	0.01	0.00	0.04	0.15	0.00	0.20	2.90	0.69	0.00
8	0.00	0.00	0.01	0.17	0.00	0.24	0.50	0.00	0.26	0.01	0.20	0.00
9	0.00	0.00	1.98	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.23	0.00
10	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00
11	0.00	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.40	0.00	0.00
12	1.84	1.04	0.00	0.00	0.00	0.00	0.36	0.00	0.08	0.03	0.00	0.00
13	0.06	0.01	0.00	0.69	0.06	0.00	1.09	0.00	0.25	0.60	0.00	0.00
14	0.00	0.00	0.00	0.06	0.07	0.31	0.26	0.18	0.00	1.71	0.15	0.00
15	0.01	0.00	0.00	0.00	0.02	0.00	0.00	0.40	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.42	0.00	0.00	0.00	0.00	0.00	0.02
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.39	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	0.03	0.11	0.00
19	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.18	0.01	0.00	0.00
20	0.00	0.03	0.00	0.00	0.39	0.00	0.00	0.57	0.05	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.02	0.00	0.00	0.00
22	0.00	0.03	0.01	0.02	0.00	0.44	0.59	0.00	0.00	0.70	0.55	0.00
23	0.01	0.18	1.42	0.00	0.00	0.34	0.04	0.00	0.00	0.11	0.00	0.00
24	0.14	0.71	0.00	0.00	0.32	0.00	0.00	0.04	0.00	0.00	0.00	0.00
25	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.30	0.00	0.00	0.07
27	0.08	0.13	0.00	0.04	0.32	1.10	0.00	0.00	1.61	0.00	0.00	0.00
28	0.02	0.01	0.00	0.00	0.98	1.06	0.00	0.03	1.03	0.17	0.00	0.00
29	0.07	0.00	0.00	0.03	---	0.00	0.00	0.00	1.31	0.72	0.00	0.00
30	0.00	0.02	0.00	0.19	---	0.00	0.15	0.01	0.00	0.01	0.63	0.00
31	0.00	---	0.00	0.00	---	0.20	---	0.00	---	0.02	0.00	---
TOTAL	2.60	5.82	4.69	1.22	3.26	4.32	3.53	1.72	8.68	9.11	3.01	0.09



02151500 BROAD RIVER NEAR BOILING SPRINGS, NC

LOCATION.--Lat 35°12'39", long 81°41'51", Cleveland County, Hydrologic Unit 03050105, on right bank 0.5 mi upstream from Sandy Run Creek, 3 mi downstream of Second Broad River, and 3.5 mi southwest of Boiling Springs.

DRAINAGE AREA.--875 mi^2.

PERIOD OF RECORD.--June 1925 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area. WDR NC-88: 1986(m).

GAGE.--Water-stage recorder. Datum of gage is 639.92 ft above NGVD of 1929 (Duke Power Company bench mark). Prior to July 20, 1934, at site 500 ft upstream at 640.92 ft. Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation and some regulation caused by power plants upstream from station. Maximum discharge and gage height for period of record from former site, present datum.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,680	841	1,630	1,760	1,330	2,990	2,750	1,650	1,350	2,070	1,850	1,120
2	2,500	1,330	1,640	1,200	1,380	2,210	2,650	1,460	2,270	1,980	1,500	1,140
3	2,000	1,720	1,650	1,200	1,430	1,630	2,240	1,500	2,170	1,790	1,440	1,040
4	1,480	6,760	1,530	1,740	1,540	1,560	1,860	1,470	1,760	2,740	1,200	790
5	1,640	4,550	1,160	1,930	1,380	1,810	2,180	1,380	1,480	2,290	1,240	764
6	1,660	2,940	1,220	2,000	1,050	1,230	2,110	1,370	1,230	3,460	1,360	877
7	1,630	1,940	2,030	1,730	1,020	1,130	1,920	1,310	1,770	10,200	1,210	1,260
8	1,590	1,510	1,790	1,880	1,330	1,810	2,210	968	1,420	18,500	1,640	1,030
9	1,590	2,010	2,020	1,300	1,700	1,590	2,230	1,180	1,620	5,140	2,980	952
10	1,420	1,570	11,900	1,200	1,810	1,140	1,840	1,470	1,600	3,250	2,260	1,070
11	1,380	1,620	4,070	1,790	1,500	1,670	1,690	1,520	1,700	2,770	1,880	742
12	1,410	2,070	2,440	1,590	1,260	1,420	2,060	1,340	1,740	3,210	1,600	644
13	1,470	3,150	1,980	1,440	972	1,070	3,210	1,100	2,060	3,650	1,420	621
14	1,530	1,870	1,950	3,650	967	1,070	3,470	1,360	2,350	3,430	1,500	951
15	1,490	1,570	1,830	2,780	973	1,500	3,130	1,010	2,090	5,050	1,120	1,070
16	1,410	1,530	2,110	1,650	1,120	1,490	2,360	1,030	1,700	3,000	1,180	1,030
17	994	1,500	1,750	1,480	1,370	1,640	2,000	1,330	1,470	2,470	1,200	1,020
18	927	1,560	1,670	1,990	1,280	1,560	1,910	1,300	1,470	2,310	1,390	631
19	1,320	1,660	1,480	1,540	1,460	1,310	2,020	1,220	1,330	2,290	1,560	581
20	1,480	1,620	1,160	1,560	1,000	1,120	1,960	1,420	1,460	2,060	1,320	905
21	1,230	1,520	1,650	1,610	1,160	1,010	1,630	1,490	1,590	1,970	897	1,070
22	1,160	1,140	1,890	1,770	2,000	1,250	1,600	1,250	1,360	1,850	891	806
23	1,360	1,610	2,980	1,170	1,460	2,110	1,480	1,120	1,120	1,900	2,070	858
24	1,040	1,740	4,440	1,120	1,510	1,940	1,530	1,350	1,130	1,710	1,500	806
25	1,160	2,520	3,150	1,440	1,490	1,750	1,580	1,410	1,230	1,420	1,340	585
26	1,270	1,960	2,280	1,490	1,450	1,520	1,720	1,040	892	1,630	1,140	688
27	1,260	1,750	1,910	1,470	1,450	1,230	1,540	1,240	1,560	1,580	1,210	1,000
28	1,310	1,830	2,200	1,550	2,570	9,690	1,310	1,200	4,370	1,630	1,270	793
29	1,340	1,540	2,110	1,450	---	6,460	1,420	829	2,960	1,750	1,270	899
30	1,320	1,590	1,910	1,370	---	3,640	1,610	842	2,430	1,730	1,160	835
31	958	---	1,870	1,210	---	2,910	---	1,200	---	1,650	1,180	---
TOTAL	45,009	60,521	73,400	51,060	38,962	64,460	61,220	39,359	52,682	100,480	44,778	26,578
MEAN	1,452	2,017	2,368	1,647	1,392	2,079	2,041	1,270	1,756	3,241	1,444	886
MAX	2,680	6,760	11,900	3,650	2,570	9,690	3,470	1,650	4,370	18,500	2,980	1,260
MIN	927	841	1,160	1,120	967	1,010	1,310	829	892	1,420	891	581
CFSM	1.66	2.31	2.71	1.88	1.59	2.38	2.33	1.45	2.01	3.70	1.65	1.01
IN.	1.91	2.57	3.12	2.17	1.66	2.74	2.60	1.67	2.24	4.27	1.90	1.13

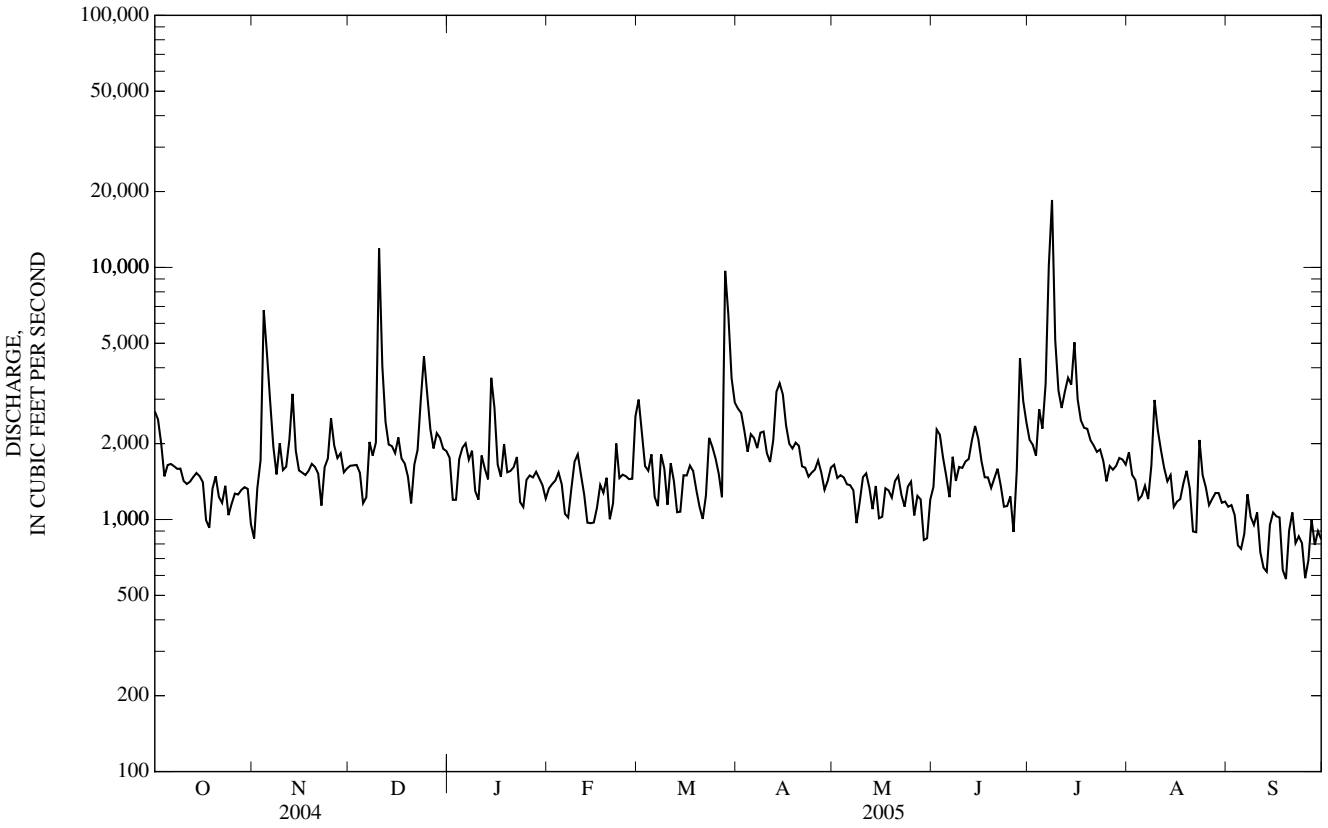
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	1,247	1,223	1,446	1,726	1,879	2,080	1,921	1,536	1,310	1,126	1,214	1,093
MAX	5,499	3,275	2,875	4,750	4,304	4,868	4,525	3,441	2,812	3,241	6,893	4,806
(WY)	(1965)	(1993)	(1984)	(1937)	(1960)	(1975)	(1936)	(1973)	(1973)	(2005)	(1928)	(2004)
MIN	237	407	449	422	641	783	821	505	420	305	175	288
(WY)	(1955)	(1955)	(1956)	(1956)	(2001)	(1988)	(1986)	(2001)	(1988)	(2002)	(2002)	(1954)

02151500 BROAD RIVER NEAR BOILING SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL TOTAL	605,875		658,509			
ANNUAL MEAN	1,655		1,804		1,484	
HIGHEST ANNUAL MEAN					2,328	1973
LOWEST ANNUAL MEAN					578	2002
HIGHEST DAILY MEAN	31,200	Sep 8	18,500	Jul 8	63,900	Aug 16, 1928
LOWEST DAILY MEAN	504	Jul 25	581	Sep 19	83	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	661	Aug 15	791	Sep 22	102	Sep 8, 2002
MAXIMUM PEAK FLOW			25,100	Jul 8	73,300*	Aug 16, 1928
MAXIMUM PEAK STAGE			14.03	Jul 8	24.30*	Aug 16, 1928
INSTANTANEOUS LOW FLOW			507	Sep 19	40	Oct 17, 1954
ANNUAL RUNOFF (CFSM)	1.89		2.06		1.70	
ANNUAL RUNOFF (INCHES)	25.76		28.00		23.04	
10 PERCENT EXCEEDS	2,400		2,660		2,490	
50 PERCENT EXCEEDS	1,180		1,520		1,170	
90 PERCENT EXCEEDS	741		1,020		555	

* See REMARKS.



02152100 FIRST BROAD RIVER NEAR CASAR, NC

LOCATION.--Lat 35°29'35", long 81°40'56", Cleveland County, Hydrologic Unit 03050105, on right bank 570 ft upstream from bridge on Secondary Road 1530, 0.5 mi upstream from No Business Creek, and 4.0 mi southwest of Casar.

DRAINAGE AREA.--60.5 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1949-5. March 1959 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 899.87 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1916 and August 1940 reached a stage of about 25 ft, from information by local resident.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	108	61	136	104	90	273	149	95	66	71	150	54
2	e98	62	124	101	87	172	159	86	116	74	88	51
3	e93	81	115	98	106	138	133	84	81	203	74	49
4	e84	747	106	97	103	123	124	82	72	215	67	47
5	76	332	98	96	97	117	116	83	64	115	65	46
6	72	167	97	95	92	110	110	83	61	90	66	45
7	71	125	107	93	90	105	112	80	60	1,620	66	44
8	68	107	98	97	90	112	137	78	71	683	95	44
9	68	95	286	90	88	98	141	75	91	221	97	43
10	67	86	761	89	86	94	126	75	126	135	87	42
11	65	83	343	87	82	92	117	74	99	114	75	41
12	63	260	217	87	82	90	113	71	80	123	66	40
13	219	257	168	98	81	88	200	69	84	119	62	40
14	95	157	137	385	83	88	476	85	76	109	60	39
15	81	126	123	182	83	83	282	84	65	145	66	39
16	72	113	115	139	84	89	183	83	59	106	57	38
17	67	103	111	121	79	96	145	71	56	92	98	39
18	66	97	107	110	75	89	132	70	96	84	223	38
19	72	93	104	106	74	85	123	68	172	81	109	36
20	71	91	96	105	e69	84	116	99	112	75	79	36
21	67	86	94	102	e95	82	110	80	90	73	68	36
22	66	83	93	97	e107	84	111	70	77	70	62	36
23	65	96	435	93	e96	154	131	69	69	79	90	36
24	70	135	315	88	111	137	106	65	65	69	72	35
25	66	226	192	91	103	115	102	62	62	64	64	34
26	63	144	152	91	95	105	99	62	64	61	60	38
27	64	123	132	86	92	101	103	60	134	58	58	41
28	63	126	120	82	347	1,100	94	59	102	57	56	37
29	65	108	116	86	---	421	92	59	88	106	55	37
30	65	101	112	104	---	234	97	59	83	77	62	35
31	64	---	107	100	---	175	---	58	---	150	70	---
TOTAL	2,394	4,471	5,317	3,400	2,767	4,934	4,239	2,298	2,541	5,339	2,467	1,216
MEAN	77.2	149	172	110	98.8	159	141	74.1	84.7	172	79.6	40.5
MAX	219	747	761	385	347	1,100	476	99	172	1,620	223	54
MIN	63	61	93	82	69	82	92	58	56	57	55	34
CFSM	1.28	2.46	2.83	1.81	1.63	2.63	2.34	1.23	1.40	2.85	1.32	0.67
IN.	1.47	2.75	3.27	2.09	1.70	3.03	2.61	1.41	1.56	3.28	1.52	0.75

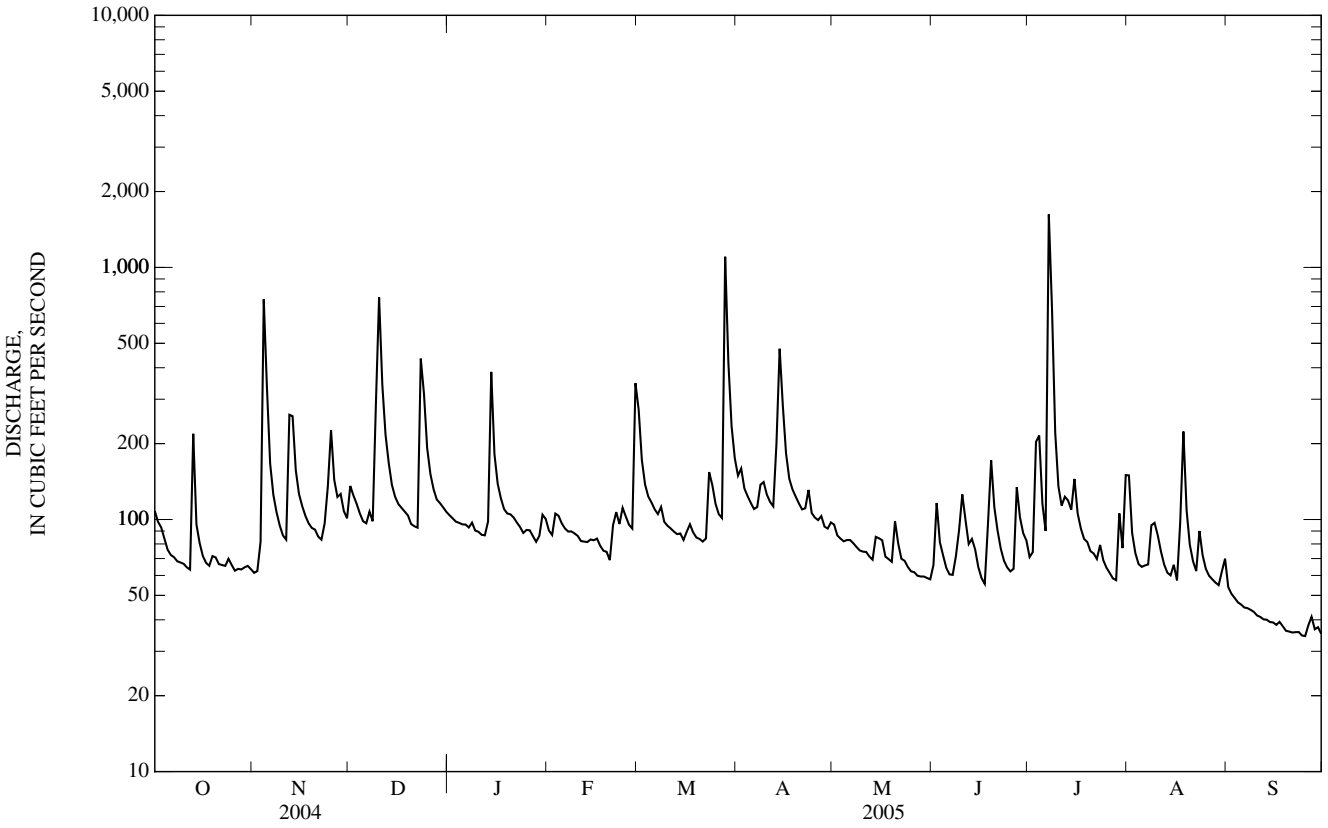
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2005, BY WATER YEAR (WY)

MEAN	71.9	68.8	84.2	101	120	136	126	96.4	81.7	67.4	67.7	59.8
MAX	318	191	185	273	286	386	300	254	261	243	262	348
(WY)	(1965)	(1978)	(1962)	(1995)	(1960)	(1975)	(2003)	(1975)	(2003)	(2003)	(1970)	(2004)
MIN	17.4	17.2	22.7	30.9	37.8	44.6	36.1	18.3	14.9	11.4	8.09	21.0
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(1988)	(2002)	(2001)	(2002)	(2002)	(2002)	(2002)

02152100 FIRST BROAD RIVER NEAR CASAR, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1959 - 2005	
ANNUAL TOTAL	44,306		41,383			
ANNUAL MEAN	121		113		90.0	
HIGHEST ANNUAL MEAN					152	2003
LOWEST ANNUAL MEAN					26.8	2002
HIGHEST DAILY MEAN	5,870	Sep 8	1,620	Jul 7	5,870	Sep 8, 2004
LOWEST DAILY MEAN	40	Aug 11	34	Sep 25	3.9	Aug 15, 2002
ANNUAL SEVEN-DAY MINIMUM	42	Aug 5	36	Sep 19	4.1	Aug 9, 2002
MAXIMUM PEAK FLOW			5,120	Jul 7	12,500	Sep 8, 2004
MAXIMUM PEAK STAGE			11.82	Jul 7	19.89	Sep 8, 2004
INSTANTANEOUS LOW FLOW			33	Sep 25	3.6	Aug 15, 2002
ANNUAL RUNOFF (CFSM)	2.00		1.87		1.49	
ANNUAL RUNOFF (INCHES)	27.24		25.45		20.21	
10 PERCENT EXCEEDS	181		158		148	
50 PERCENT EXCEEDS	69		90		63	
90 PERCENT EXCEEDS	52		58		31	

e Estimated.



351954080493445 CRN02

LOCATION.--Lat 35°19'54", long 80°49'35", Mecklenburg County, Hydrologic Unit 03050101, Fire Station 28, Old Statesville Road, Charlotte, NC.

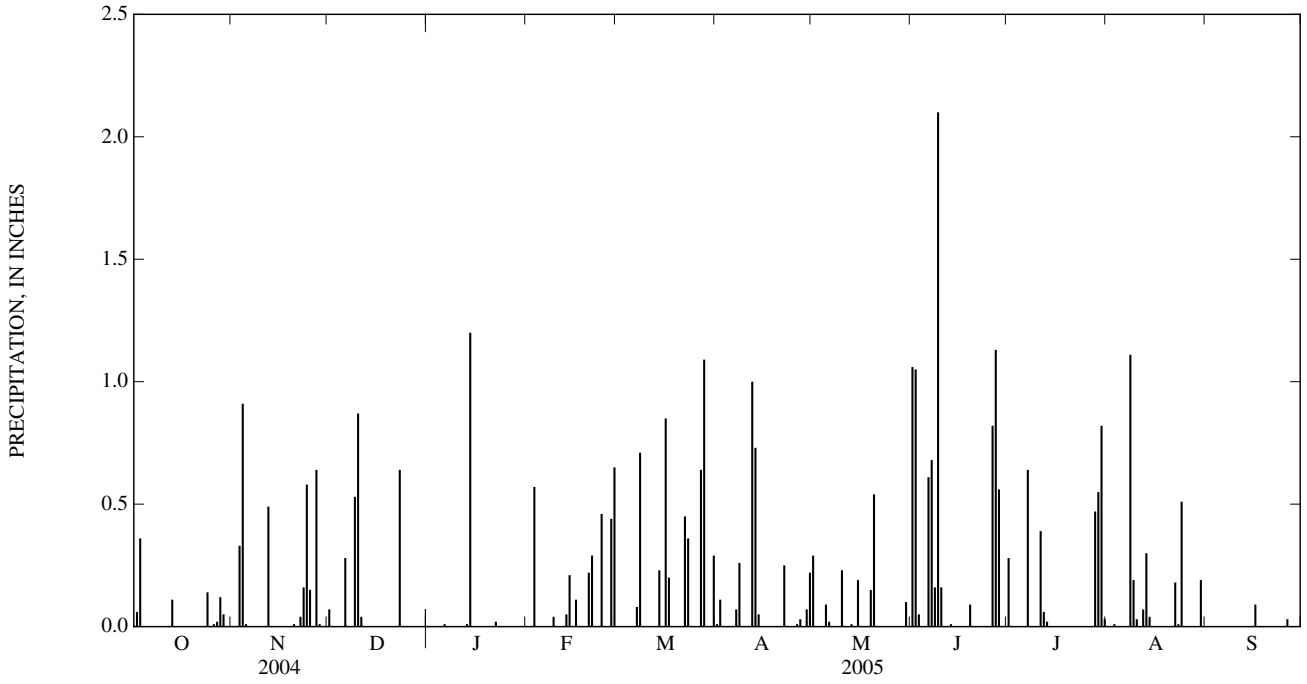
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67,and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.29	1.06	0.28	0.00	0.00
2	0.06	0.00	0.00	0.00	0.00	0.00	0.11	0.00	1.05	0.00	0.00	0.00
3	0.36	0.33	0.00	0.00	0.57	0.00	0.00	0.00	0.05	0.00	0.01	0.00
4	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.28	0.01	0.00	0.00	0.00	0.02	0.61	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.08	0.07	0.00	0.68	0.64	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.71	0.26	0.00	0.16	0.00	1.11	0.00
9	0.00	0.00	0.53	0.00	0.04	0.00	0.00	0.00	2.10	0.00	0.19	0.00
10	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.23	0.16	0.00	0.03	0.00
11	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.39	0.00	0.00
12	0.00	0.49	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.06	0.07	0.00
13	0.11	0.00	0.00	0.01	0.05	0.00	0.73	0.01	0.01	0.02	0.30	0.00
14	0.00	0.00	0.00	1.20	0.21	0.23	0.05	0.00	0.00	0.00	0.04	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.11	0.85	0.00	0.00	0.00	0.00	0.00	0.09
17	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.09	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.22	0.00	0.00	0.54	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.00	0.45	0.25	0.00	0.00	0.00	0.18	0.00
23	0.00	0.16	0.64	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.01	0.00
24	0.14	0.58	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.51	0.00
25	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.82	0.00	0.00	0.03
27	0.02	0.64	0.00	0.00	0.44	0.64	0.03	0.00	1.13	0.00	0.00	0.00
28	0.12	0.01	0.00	---	0.65	1.09	0.00	0.00	0.56	0.47	0.00	0.00
29	0.05	0.00	0.00	---	---	0.00	0.07	0.00	0.00	0.55	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.22	0.10	0.00	0.82	0.19	0.00
31	0.00	---	0.00	0.00	---	0.29	---	0.00	---	0.03	0.00	---
TOTAL	0.87	3.33	2.43	---	3.04	4.90	2.81	1.62	8.48	3.26	2.64	0.12



351132080562345 CRN04

LOCATION.--Lat 35°11'34", long 80°56'09", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 30, Belle Oaks Road, Charlotte, NC.

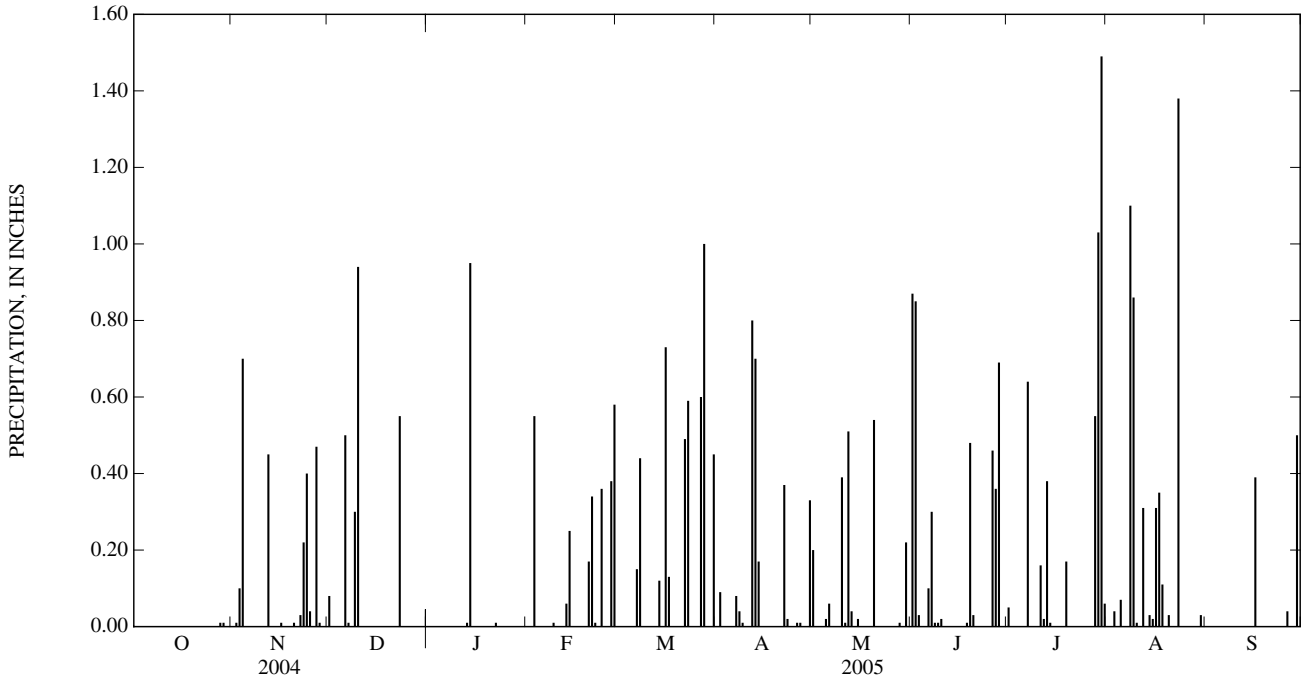
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.08	0.00	0.00	0.00	0.00	0.20	0.87	0.05	0.00	0.00
2	---	0.01	0.00	0.00	0.00	0.00	0.09	0.00	0.85	0.00	0.00	0.00
3	---	0.10	0.00	0.00	0.55	0.00	0.00	0.00	0.03	0.00	0.04	0.00
4	---	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.07	0.00
6	---	0.00	0.50	0.00	0.00	0.00	0.00	0.06	0.10	0.00	0.00	0.00
7	---	0.00	0.01	0.00	0.00	0.15	0.08	0.00	0.30	0.64	0.00	0.00
8	---	0.00	0.00	0.00	0.00	0.44	0.04	0.00	0.01	0.00	1.10	0.00
9	---	0.00	0.30	0.00	0.01	0.00	0.01	0.00	0.01	0.00	0.86	0.00
10	---	0.00	0.94	0.00	0.00	0.00	0.00	0.39	0.02	0.00	0.01	0.00
11	---	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.16	0.00	0.00
12	---	0.45	0.00	0.00	0.00	0.00	0.80	0.51	0.00	0.02	0.31	0.00
13	---	0.00	0.00	0.01	0.06	0.00	0.70	0.04	0.00	0.38	0.00	0.00
14	---	0.00	0.00	0.95	0.25	0.12	0.17	0.00	0.00	0.01	0.03	0.00
15	---	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00
16	---	0.01	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.31	0.39
17	---	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.35	0.00
18	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.11	0.00
19	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.17	0.00	0.00
20	---	0.01	0.00	0.00	0.17	0.00	0.00	0.54	0.03	0.00	0.03	0.00
21	---	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	---	0.03	0.00	0.01	0.01	0.49	0.37	0.00	0.00	0.00	0.00	0.00
23	---	0.22	0.55	0.00	0.00	0.59	0.02	0.00	0.00	0.00	1.38	0.00
24	---	0.40	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.46	0.00	0.00	0.04
27	0.00	0.47	0.00	0.00	0.38	0.60	0.01	0.00	0.36	0.00	0.00	0.00
28	0.01	0.01	0.00	---	0.58	1.00	0.00	0.01	0.69	0.55	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.03	0.00	0.50
30	0.00	0.00	0.00	---	---	0.00	0.33	0.22	0.00	1.49	0.03	0.00
31	0.00	---	0.00	---	---	0.45	---	0.00	---	0.06	0.00	---
TOTAL	---	2.45	2.38	---	2.71	4.70	2.63	2.02	4.22	4.56	4.65	0.93



351642080533445 CRN05

LOCATION.--Lat 35°16'42", long 80°53'34", Mecklenburg County, Hydrologic Unit 03050103, CMUD Administration Building, Brookshire Boulevard, Charlotte, NC.

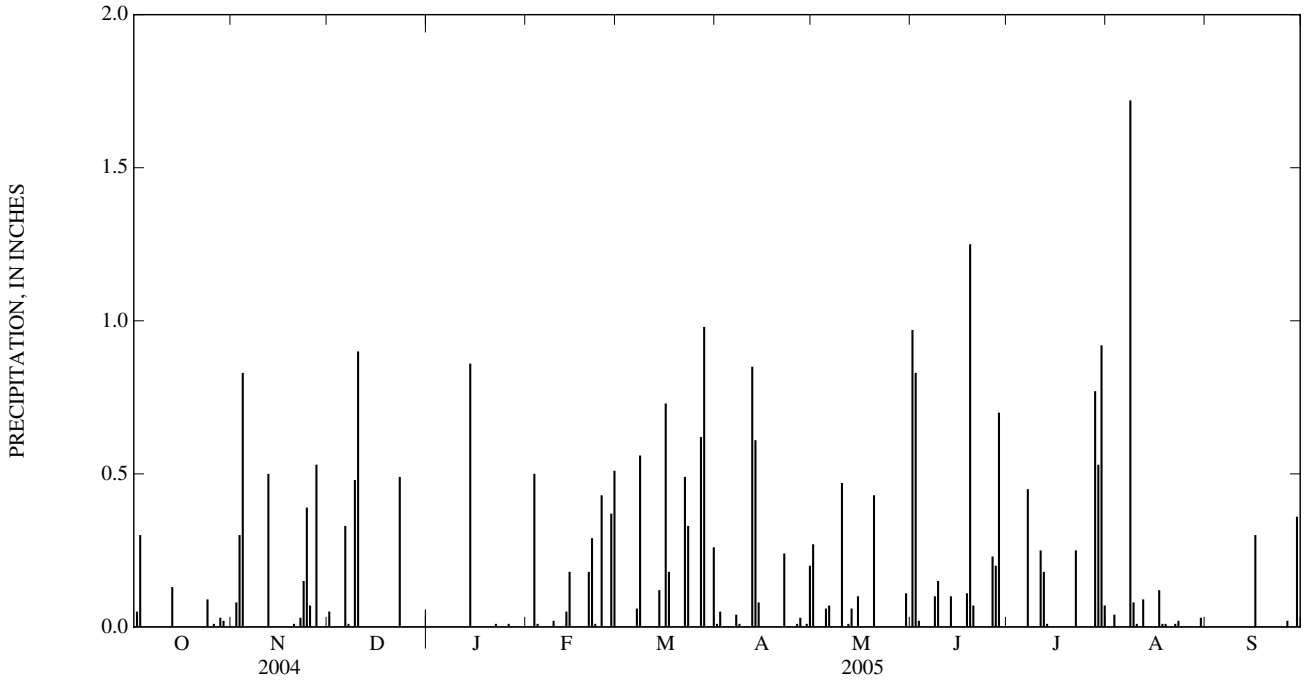
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.00	0.01	0.27	0.97	0.00	0.00	0.00
2	0.05	0.08	0.00	0.00	0.00	0.00	0.05	0.00	0.83	0.00	0.00	0.00
3	0.30	0.30	0.00	0.00	0.50	0.00	0.00	0.00	0.02	0.00	0.04	0.00
4	0.00	0.83	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.06	0.04	0.00	0.00	0.45	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.56	0.01	0.00	0.10	0.00	1.72	0.00
9	0.00	0.00	0.48	0.00	0.02	0.00	0.00	0.00	0.15	0.00	0.08	0.00
10	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.01	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00
12	0.00	0.50	0.00	0.00	0.00	0.00	0.85	0.01	0.00	0.18	0.09	0.00
13	0.13	0.00	0.00	0.00	0.05	0.00	0.61	0.06	0.10	0.01	0.00	0.00
14	0.00	0.00	0.00	0.86	0.18	0.12	0.08	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.00	0.30
17	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.12	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.01	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.25	0.00	0.01	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.43	0.07	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.01	0.01	0.49	0.24	0.00	0.00	0.25	0.01	0.00
23	0.00	0.15	0.49	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.02	0.00
24	0.09	0.39	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.23	0.00	0.00	0.02
27	0.00	0.53	0.00	0.00	0.37	0.62	0.03	0.00	0.20	0.00	0.00	0.00
28	0.03	0.00	0.00	---	0.51	0.98	0.00	0.00	0.70	0.77	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.53	0.00	0.36
30	0.00	0.00	0.00	---	---	0.00	0.20	0.11	0.00	0.92	0.03	0.00
31	0.00	---	0.00	0.00	---	0.26	---	0.00	---	0.07	0.00	---
TOTAL	0.63	2.89	2.26	---	2.55	4.33	2.14	1.58	4.73	3.43	2.14	0.68



350351080454145 CRN07

LOCATION.--Lat 35°03'51", long 80°45'41", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 9, McKee Road, Charlotte, NC.

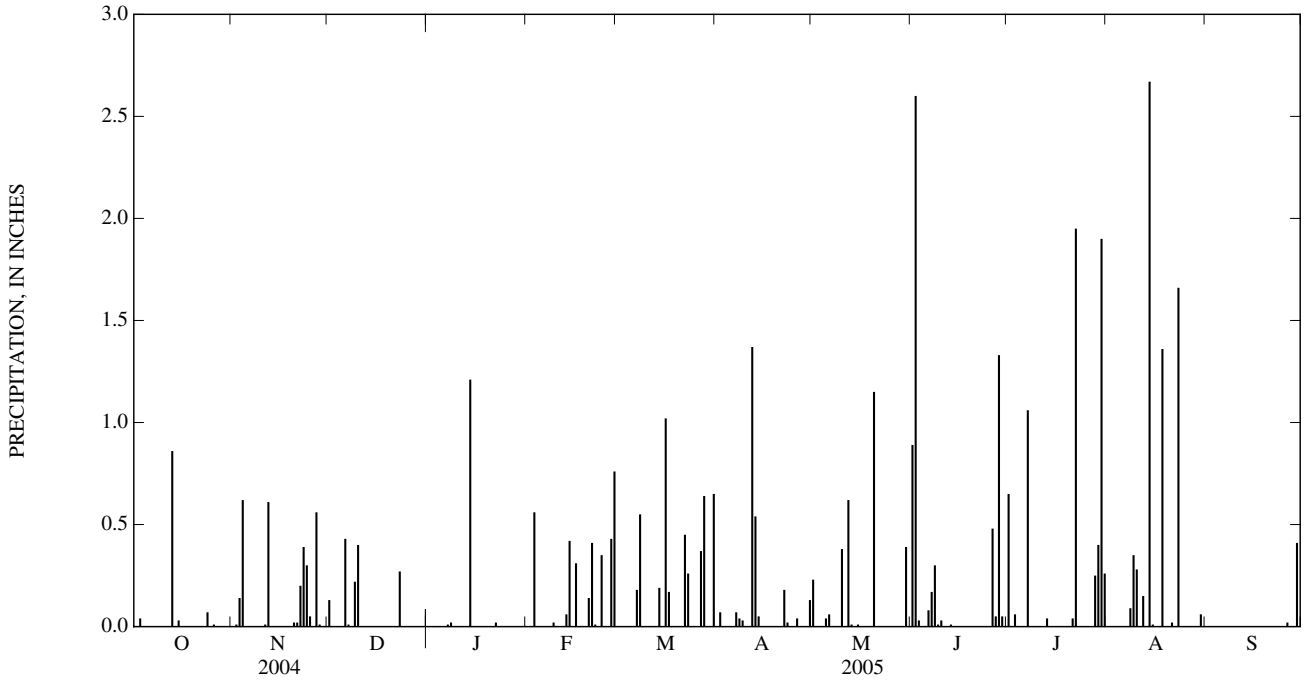
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.23	0.89	0.65	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.00	2.60	0.00	0.00	0.00
3	0.04	0.14	0.00	0.00	0.56	0.00	0.00	0.00	0.03	0.06	0.00	0.00
4	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.06	0.08	0.00	0.00	0.00
7	0.00	0.00	0.01	0.01	0.00	0.18	0.07	0.00	0.17	1.06	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.55	0.04	0.00	0.30	0.00	0.09	0.00
9	0.00	0.00	0.22	0.00	0.02	0.00	0.03	0.00	0.01	0.00	0.35	---
10	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.38	0.03	0.00	0.28	---
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---
12	0.00	0.61	0.00	0.00	0.00	0.00	1.37	0.62	0.00	0.00	0.15	---
13	0.86	0.00	0.00	0.00	0.06	0.00	0.54	0.01	0.01	0.04	0.00	---
14	0.00	0.00	0.00	1.21	0.42	0.19	0.05	0.00	0.00	0.00	2.67	---
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.31	1.02	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.14	0.00	0.00	1.15	0.00	0.00	0.00	0.00
21	0.00	0.02	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.04	0.02	0.00
22	0.00	0.20	0.00	0.02	0.01	0.45	0.18	0.00	0.00	1.95	0.00	0.00
23	0.00	0.39	0.27	0.00	0.00	0.26	0.02	0.00	0.00	0.00	1.66	0.00
24	0.07	0.30	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.48	0.00	0.00	0.02
27	0.00	0.56	0.00	0.00	0.43	0.37	0.00	0.00	0.05	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.76	0.64	0.00	0.00	1.33	0.25	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.05	0.40	0.00	0.41
30	0.00	0.00	0.00	---	---	0.00	0.13	0.39	0.00	1.90	0.06	0.00
31	0.00	---	0.00	0.00	---	0.65	---	0.00	---	0.26	0.00	---
TOTAL	1.01	2.94	1.46	---	3.47	4.48	2.54	2.89	6.03	6.61	6.65	---



350314080484945 CRN08

LOCATION.--Lat 35°03'22", long 80°48'51", Mecklenburg County, Hydrologic Unit 03050103, St. Matthews Catholic Church, Ballantyne Commons Parkway, Charlotte, NC.

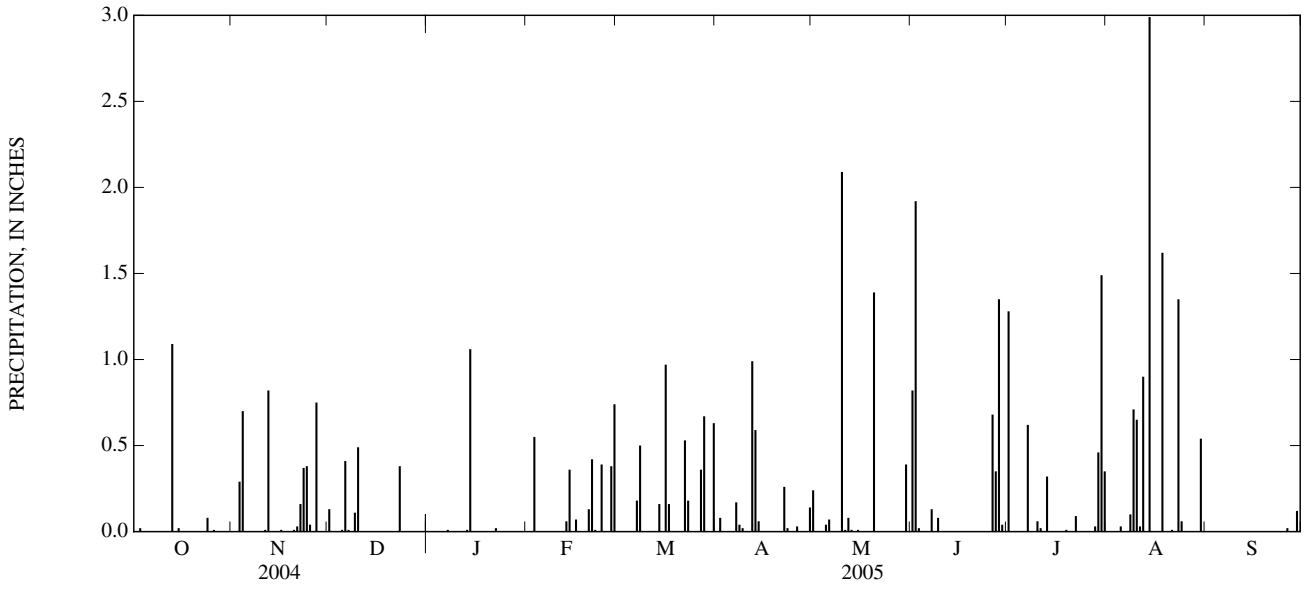
PERIOD OF RECORD.--October 1992 to current year. Records for period October 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273. Records for August 4, 1994 to August 15, 2001 at site Tipton Rest Home, Charlotte, NC. Records for October 1992 to August 4, 1994 at site McAlpine Creek Elementary School, Charlotte, NC (station 350458080493245).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station. Prior to August 16, 2001, gage located on Elm Lane at intersection of Providence Road West, Charlotte.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.24	0.82	1.28	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.92	0.00	0.00	0.00
3	0.02	0.29	0.00	0.00	0.55	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.00
6	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.01	0.00	0.18	0.17	0.00	0.13	0.62	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.50	0.04	0.00	0.00	0.00	0.10	0.00
9	0.00	0.00	0.11	0.00	0.00	0.00	0.02	0.00	0.08	0.00	0.71	0.00
10	0.00	0.00	0.49	0.00	0.00	0.00	0.00	2.09	0.00	0.06	0.65	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.03	0.00
12	0.00	0.82	0.00	0.00	0.00	0.00	0.99	0.08	0.00	0.00	0.90	0.00
13	1.09	0.00	0.00	0.01	0.06	0.00	0.59	0.01	0.00	0.32	0.00	0.00
14	0.00	0.00	0.00	1.06	0.36	0.16	0.06	0.00	0.00	0.00	2.99	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.07	0.97	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.62	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
20	0.00	0.01	0.00	0.00	0.13	0.00	0.00	1.39	0.00	0.00	0.00	0.00
21	0.00	0.03	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.16	0.00	0.02	0.01	0.53	0.26	0.00	0.00	0.09	0.00	0.00
23	0.00	0.37	0.38	0.00	0.00	0.18	0.02	0.00	0.00	0.00	1.35	0.00
24	0.08	0.38	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.06	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.68	0.00	0.00	0.02
27	0.00	0.75	0.00	0.00	0.38	0.36	0.00	0.00	0.35	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.74	0.67	0.00	0.00	1.35	0.03	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.04	0.46	0.00	0.12
30	0.00	0.00	0.00	---	---	0.00	0.14	0.39	0.00	1.49	0.54	0.00
31	0.00	---	0.00	0.00	---	0.63	---	0.00	---	0.35	0.00	---
TOTAL	1.22	3.57	1.54	---	3.11	4.34	2.40	4.33	5.39	4.73	8.99	0.14



351414080463245 CRN09

LOCATION.--Lat 35°14'15", long 80°46'31", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 15, Frontenac Road, Charlotte, NC.

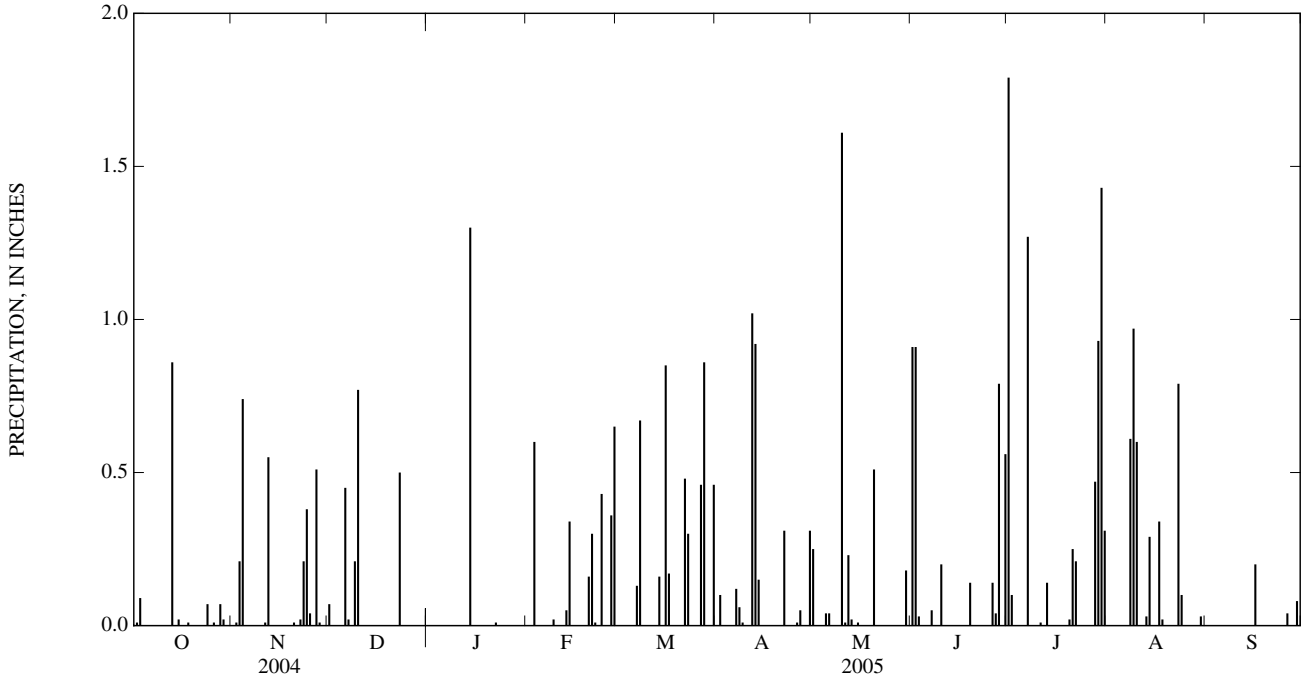
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.25	0.91	1.79	0.00	0.00
2	0.01	0.01	0.00	0.00	0.00	0.00	0.10	0.00	0.91	0.10	0.00	0.00
3	0.09	0.21	0.00	0.00	0.60	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.13	0.12	0.00	0.05	1.27	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.67	0.06	0.00	0.00	0.00	0.61	0.00
9	0.00	0.00	0.21	0.00	0.02	0.00	0.01	0.00	0.00	0.00	0.97	0.00
10	0.00	0.00	0.77	0.00	0.00	0.00	0.00	1.61	0.20	0.00	0.60	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00
12	0.00	0.55	0.00	0.00	0.00	0.00	1.02	0.23	0.00	0.00	0.00	0.00
13	0.86	0.00	0.00	0.00	0.05	0.00	0.92	0.02	0.00	0.14	0.03	0.00
14	0.00	0.00	0.00	1.30	0.34	0.16	0.15	0.00	0.00	0.00	0.29	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.20
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.34	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.16	0.00	0.00	0.51	0.00	0.02	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.25	0.00	0.00
22	0.00	0.02	0.00	0.01	0.01	0.48	0.31	0.00	0.00	0.21	0.00	0.00
23	0.00	0.21	0.50	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.79	0.00
24	0.07	0.38	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.10	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.00	0.00	0.04
27	0.00	0.51	0.00	0.00	0.36	0.46	0.05	0.00	0.04	0.00	0.00	0.00
28	0.07	0.01	0.00	0.00	0.65	0.86	0.00	0.00	0.79	0.47	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.93	0.00	0.08
30	0.00	0.00	0.00	---	---	0.00	0.31	0.18	0.56	1.43	0.03	0.00
31	0.00	---	0.00	0.00	---	0.46	---	0.00	---	0.31	0.00	---
TOTAL	1.16	2.70	2.02	---	2.92	4.54	3.06	2.90	3.77	6.93	3.78	0.32



351331080525945 CRN11

LOCATION.--Lat 35°13'29", long 80°53'14", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 10, Wilkinson Boulevard, Charlotte, NC.

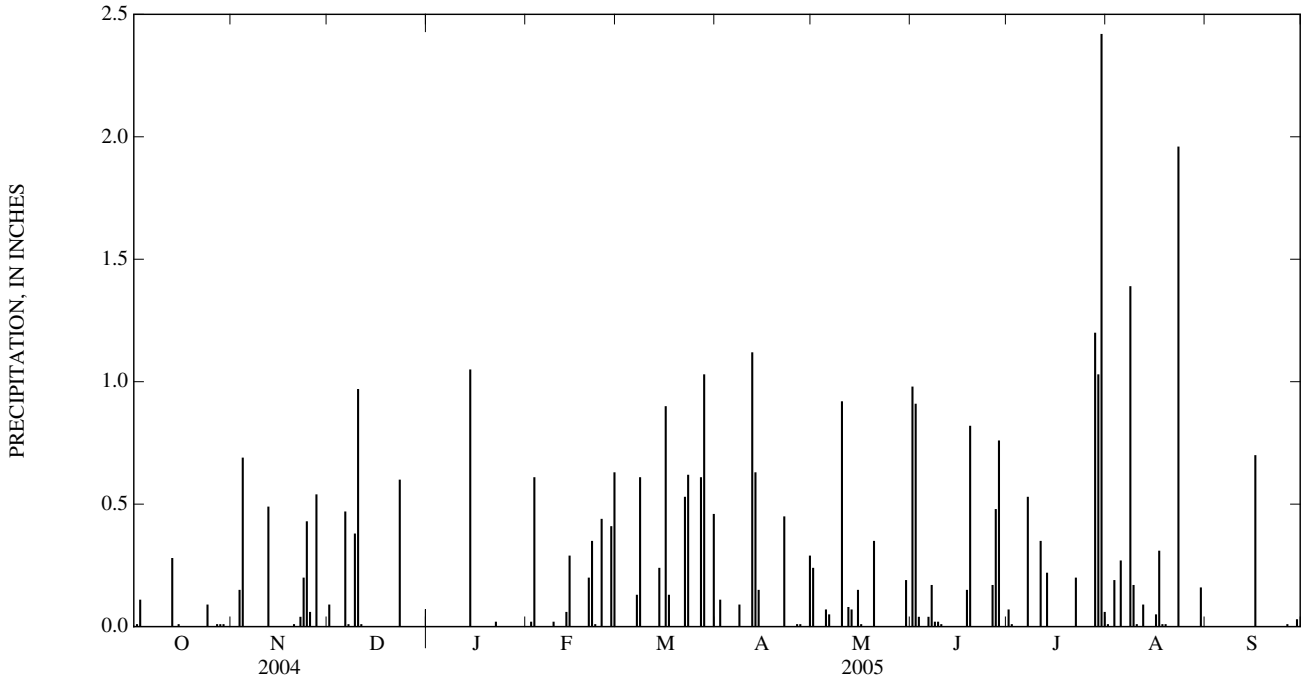
PERIOD OF RECORD.--November 1992 to current year. Records for period November 1992 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.24	0.98	0.07	0.01	0.00
2	0.01	0.00	0.00	0.00	0.02	0.00	0.11	0.00	0.91	0.01	0.00	0.00
3	0.11	0.15	0.00	0.00	0.61	0.00	0.00	0.00	0.04	0.00	0.19	0.00
4	0.00	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.27	0.00
6	0.00	0.00	0.47	0.00	0.00	0.00	---	0.05	0.04	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.13	---	0.00	0.17	0.53	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.61	0.09	0.00	0.02	0.00	1.39	0.00
9	0.00	0.00	0.38	0.00	0.02	0.00	0.00	0.00	0.02	0.00	0.17	0.00
10	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.92	0.01	0.00	0.01	0.00
11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.00
12	0.00	0.49	0.00	0.00	0.00	0.00	1.12	0.08	0.00	0.00	0.09	0.00
13	0.28	0.00	0.00	0.00	0.06	0.00	0.63	0.07	0.00	0.22	0.00	0.00
14	0.00	0.00	0.00	1.05	0.29	0.24	0.15	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.01	0.00	0.00	0.05	0.70
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.31	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.01	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.01	0.00
20	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.35	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.01	0.53	0.45	0.00	0.00	0.20	0.00	0.00
23	0.00	0.20	0.60	0.00	0.00	0.62	0.00	0.00	0.00	0.00	1.96	0.00
24	0.09	0.43	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.17	0.00	0.00	0.01
27	0.01	0.54	0.00	0.00	0.41	0.61	0.01	0.00	0.48	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.63	1.03	0.00	0.00	0.76	1.20	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.03	0.00	0.03
30	0.00	0.00	0.00	---	---	0.00	0.29	0.19	0.00	2.42	0.16	0.00
31	0.00	---	0.00	0.00	---	0.46	---	0.00	---	0.06	0.00	---
TOTAL	0.53	2.61	2.53	---	3.04	5.26	---	2.13	4.57	6.09	4.63	0.74



350823080505345 CRN12

LOCATION.--Lat 35°08'24", long 80°50'51", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 16, Park South Drive, Charlotte, NC.

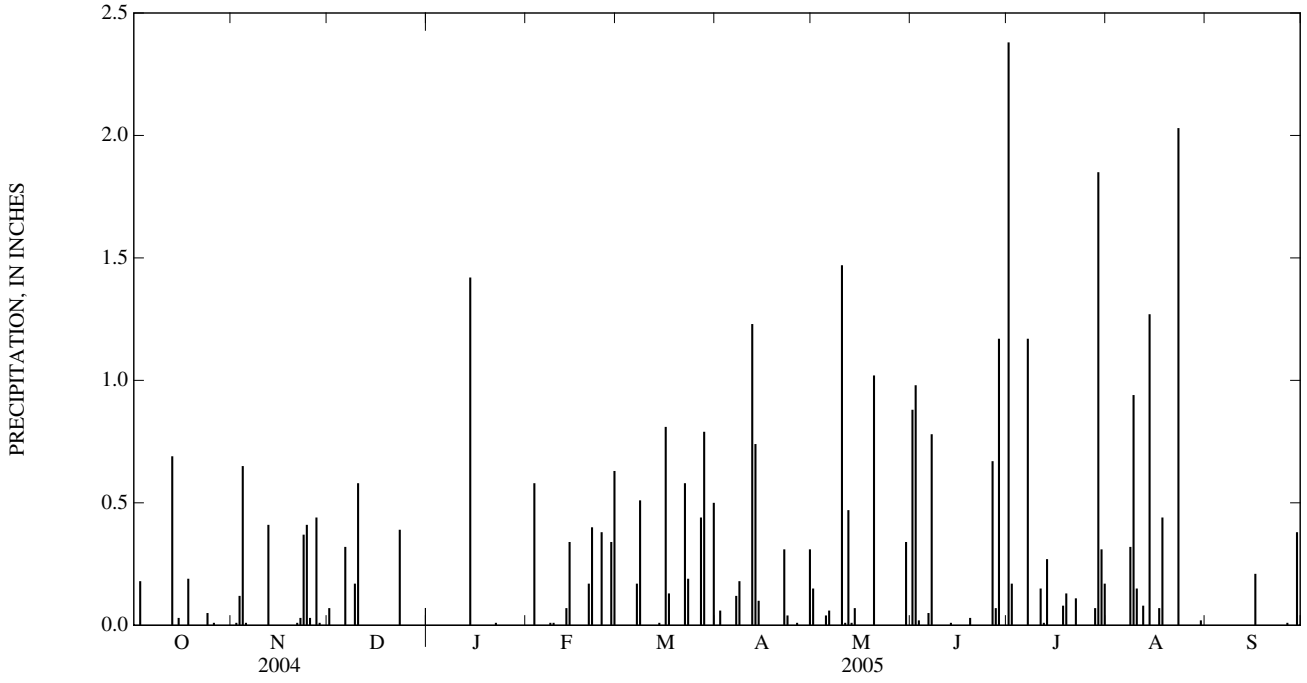
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.15	0.88	2.38	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.98	0.17	0.00	0.00
3	0.18	0.12	0.00	0.00	0.58	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.06	0.05	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.17	0.12	0.00	0.78	1.17	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.51	0.18	0.00	0.00	0.00	0.32	0.00
9	0.00	0.00	0.17	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.94	0.00
10	0.00	0.00	0.58	0.00	0.00	0.00	0.00	1.47	0.00	0.00	0.15	0.00
11	0.00	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.15	0.00	0.00
12	0.00	0.41	0.00	0.00	0.00	0.00	1.23	0.47	0.00	0.01	0.08	0.00
13	0.69	0.00	0.00	0.00	0.07	0.00	0.74	0.01	0.01	0.27	0.00	0.00
14	0.00	0.00	0.00	1.42	0.34	0.01	0.10	0.07	0.00	0.00	1.27	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.21
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.07	0.00
18	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.44	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.13	0.00	0.00
20	0.00	0.00	0.00	0.00	0.17	0.00	0.00	1.02	0.00	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.01	0.00	0.58	0.31	0.00	0.00	0.11	0.00	0.00
23	0.00	0.37	0.39	0.00	0.00	0.19	0.04	0.00	0.00	0.00	2.03	0.00
24	0.05	0.41	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.67	0.00	0.00	0.01
27	0.00	0.44	0.00	0.00	0.34	0.44	0.00	0.00	0.07	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.63	0.79	0.00	0.00	1.17	0.07	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.85	0.00	0.38
30	0.00	0.00	0.00	---	---	0.00	0.31	0.34	0.00	0.31	0.02	0.00
31	0.00	---	0.00	0.00	---	0.50	---	0.00	---	0.17	0.00	---
TOTAL	1.15	---	1.53	---	2.93	4.13	3.10	3.64	4.66	6.87	5.32	0.60



350947080524945 CRN13

LOCATION.--Lat 35°09'47", long 80°52'49", Mecklenburg County, Hydrologic Unit 03050103, U.S. Geological Survey Office, Tyvola Road, Charlotte, NC.

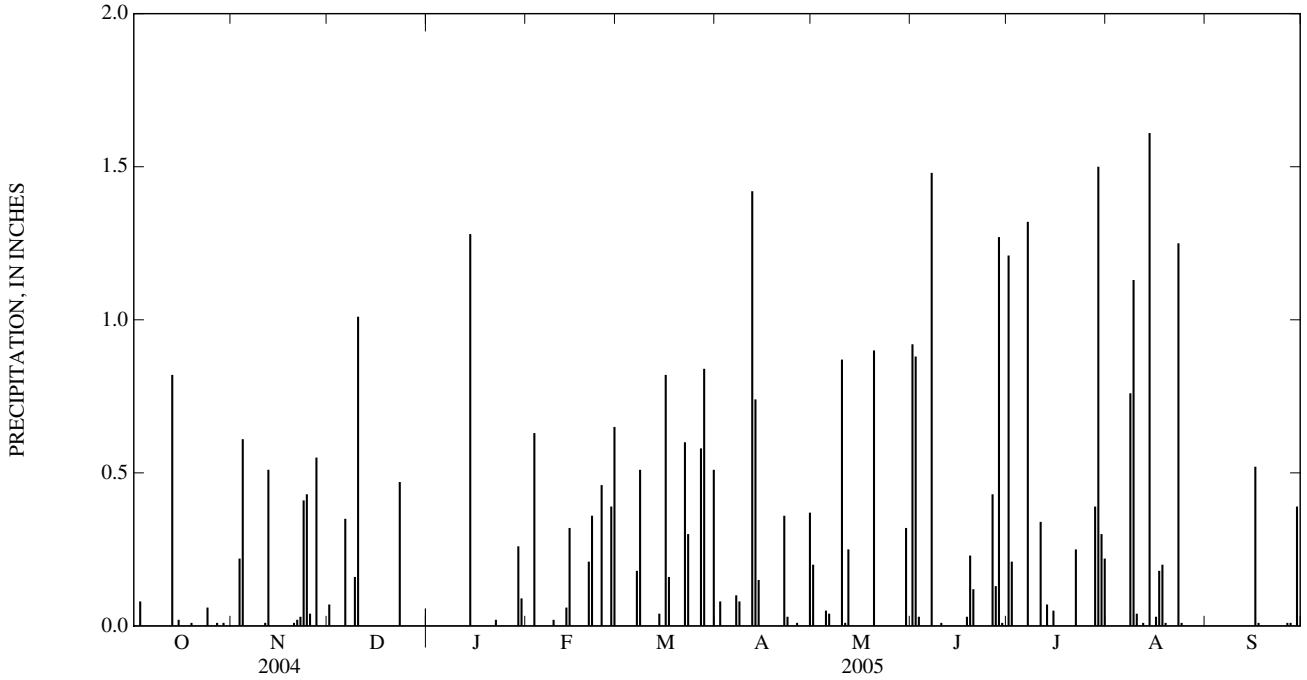
PERIOD OF RECORD.--May 1993 to current year. Records for period May 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Heated tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.20	0.92	1.21	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.88	0.21	0.00	0.00
3	0.08	0.22	0.00	0.00	0.63	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.18	0.10	0.00	1.48	1.32	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.51	0.08	0.00	0.00	0.00	0.76	0.00
9	0.00	0.00	0.16	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.13	0.00
10	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.87	0.01	0.00	0.04	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.34	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	1.42	0.25	0.00	0.00	0.01	0.00
13	0.82	0.00	0.00	0.00	0.06	0.00	0.74	0.00	0.00	0.07	0.00	0.00
14	0.00	0.00	0.00	1.28	0.32	0.04	0.15	0.00	0.00	0.00	1.61	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.82	0.00	0.00	0.00	0.00	0.03	0.52
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.18	0.01
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.20	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.01	0.00
20	0.00	0.01	0.00	0.00	0.21	0.00	0.00	0.90	0.12	0.00	0.00	0.00
21	0.00	0.02	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.02	0.00	0.60	0.36	0.00	0.00	0.25	0.00	0.00
23	0.00	0.41	0.47	0.00	0.00	0.30	0.03	0.00	0.00	0.00	1.25	0.00
24	0.06	0.43	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.43	0.00	0.00	0.01
27	0.01	0.55	0.00	0.00	0.39	0.58	0.00	0.00	0.13	0.00	0.00	0.01
28	0.00	0.00	0.00	0.00	0.65	0.84	0.00	0.00	1.27	0.39	0.00	0.00
29	0.01	0.00	0.00	0.26	---	0.00	0.00	0.00	0.01	1.50	0.00	0.39
30	0.00	0.00	0.00	0.09	---	0.00	0.37	0.32	0.00	0.30	0.00	0.00
31	0.00	---	0.00	0.00	---	0.51	---	0.00	---	0.22	0.00	---
TOTAL	1.01	2.84	2.06	1.65	3.10	4.54	3.34	2.64	5.54	5.86	5.23	0.94



351553080562645 CRN14

LOCATION.--Lat 35°15'53", long 80°56'23", Mecklenburg County, Hydrologic Unit 03050101, Fire Station 21, Little Rock Road, Charlotte, NC.

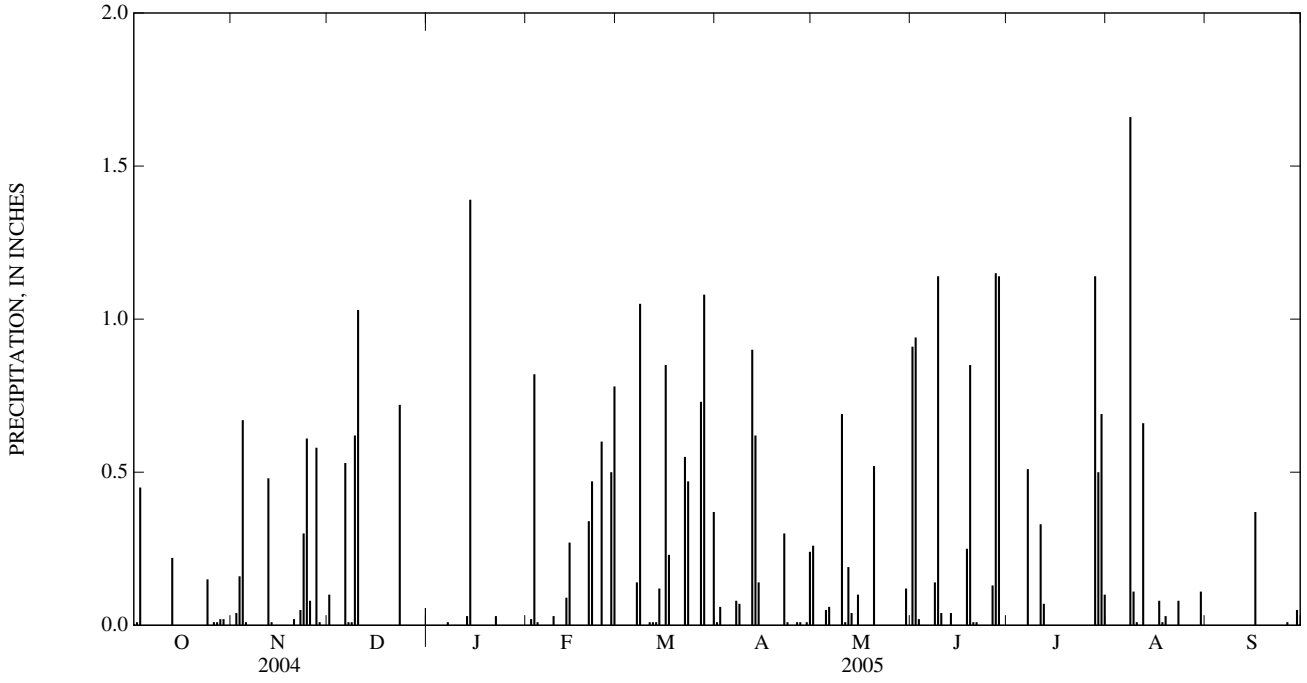
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.26	0.91	0.00	0.00	0.00
2	0.01	0.04	0.00	0.00	0.02	0.00	0.06	0.00	0.94	0.00	0.00	0.00
3	0.45	0.16	0.00	0.00	0.82	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.67	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.01	0.00	0.14	0.08	0.00	0.00	0.51	0.00	0.00
8	0.00	0.00	0.01	0.00	0.00	1.05	0.07	0.00	0.14	0.00	1.66	0.00
9	0.00	0.00	0.62	0.00	0.03	0.00	0.00	0.00	1.14	0.00	0.11	0.00
10	0.00	0.00	1.03	0.00	0.00	0.00	0.00	0.69	0.04	0.00	0.01	0.00
11	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.33	0.00	0.00
12	0.00	0.48	0.00	0.00	0.00	0.01	0.90	0.19	0.00	0.07	0.66	0.00
13	0.22	0.01	0.00	0.03	0.09	0.01	0.62	0.04	0.04	0.00	0.00	0.00
14	0.00	0.00	0.00	1.39	0.27	0.12	0.14	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.37
17	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.08	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.01	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.03	0.00
20	0.00	0.02	0.00	0.00	0.34	0.00	0.00	0.52	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.01	0.00	0.00	0.00
22	0.00	0.05	0.00	0.03	0.00	0.55	0.30	0.00	0.00	0.00	0.00	0.00
23	0.00	0.30	0.72	0.00	0.00	0.47	0.01	0.00	0.00	0.00	0.08	0.00
24	0.15	0.61	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00	0.01
27	0.01	0.58	0.00	0.00	0.50	0.73	0.01	0.00	1.15	0.00	0.00	0.00
28	0.02	0.01	0.00	0.00	0.78	1.08	0.00	0.00	1.14	1.14	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.50	0.00	0.05
30	0.00	0.00	0.00	---	---	0.00	0.24	0.12	0.00	0.69	0.11	0.00
31	0.00	---	0.00	---	---	0.37	---	0.00	---	0.10	0.00	---
TOTAL	0.89	3.02	3.02	---	3.93	5.62	2.46	2.04	6.77	3.34	2.75	0.43



351320080502645 CRN15

LOCATION.--Lat 35°13'17", long 80°50'23", Mecklenburg County, Hydrologic Unit 03050103, Charlotte Mecklenburg Government Center, East Fourth Street, Charlotte, NC.

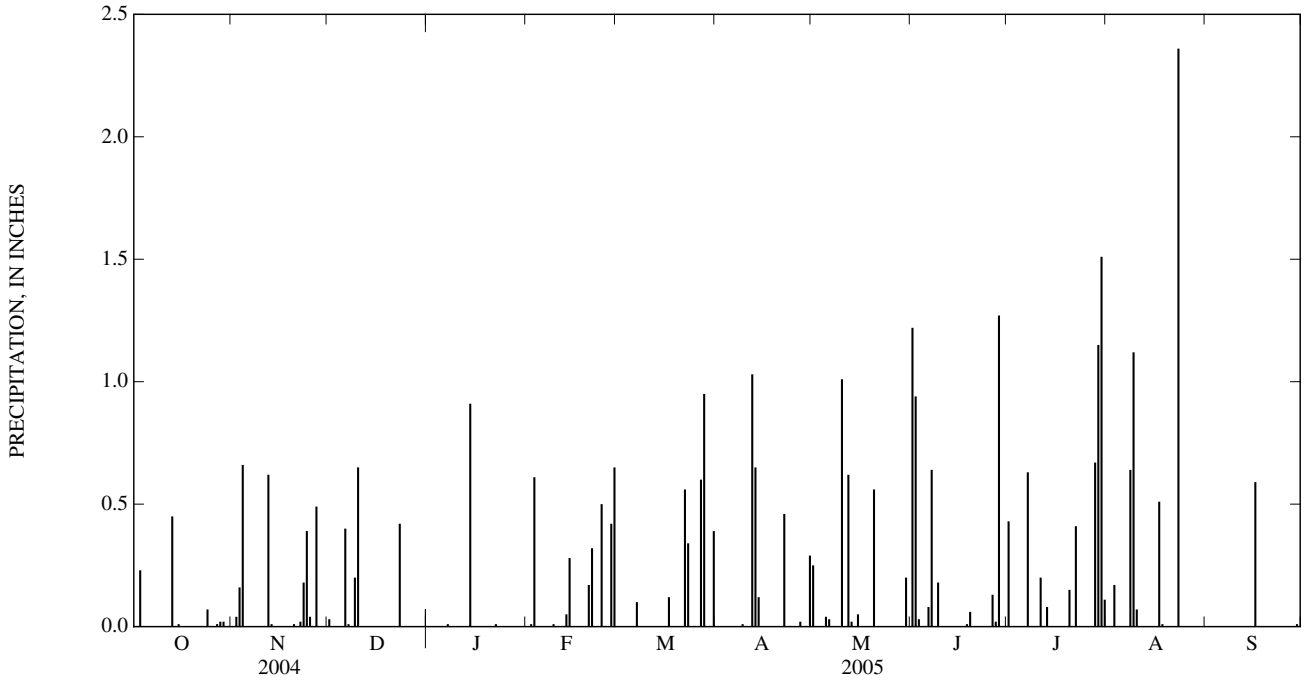
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.03	0.00	0.00	0.00	---	0.25	1.22	0.43	0.00	0.00
2	0.00	0.04	0.00	0.00	0.01	0.00	---	0.00	0.94	0.00	0.00	0.00
3	0.23	0.16	0.00	0.00	0.61	0.00	---	0.00	0.03	0.00	0.17	0.00
4	0.00	0.66	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.40	0.00	0.00	0.00	---	0.03	0.08	0.00	0.00	0.00
7	0.00	0.00	0.01	0.01	0.00	0.10	---	0.00	0.64	0.63	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.64	0.00
9	0.00	0.00	0.20	0.00	0.01	---	0.01	0.00	0.18	0.00	1.12	0.00
10	0.00	0.00	0.65	0.00	0.00	---	0.00	1.01	0.00	0.00	0.07	0.00
11	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.20	0.00	0.00
12	0.00	0.62	0.00	0.00	0.00	---	1.03	0.62	0.00	0.00	0.00	0.00
13	0.45	0.01	0.00	0.00	0.05	---	0.65	0.02	0.00	0.08	0.00	0.00
14	0.00	0.00	0.00	0.91	0.28	---	0.12	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	---	0.00	0.05	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.59
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.51	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.17	0.00	0.00	0.56	0.00	0.15	0.00	0.00
21	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.56	0.46	0.00	0.00	0.41	0.00	0.00
23	0.00	0.18	0.42	0.00	0.00	0.34	0.00	0.00	0.00	0.00	2.36	0.00
24	0.07	0.39	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00
27	0.01	0.49	0.00	0.00	0.42	0.60	0.02	0.00	0.02	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.65	0.95	0.00	0.00	1.27	0.67	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.15	0.00	0.01
30	0.00	0.00	0.00	---	---	0.00	0.29	0.20	0.00	1.51	0.00	0.00
31	0.00	---	0.00	0.00	---	0.39	---	0.00	---	0.11	0.00	---
TOTAL	0.81	2.62	1.71	---	3.02	---	---	2.78	4.58	5.34	4.88	0.60



351023080435745 CRN17

LOCATION.--Lat 35°10'25", long 80°43'50", Mecklenburg County, Hydrologic Unit 03050103, Piney Grove Elementary School, Eaglewind Drive, Charlotte, NC.

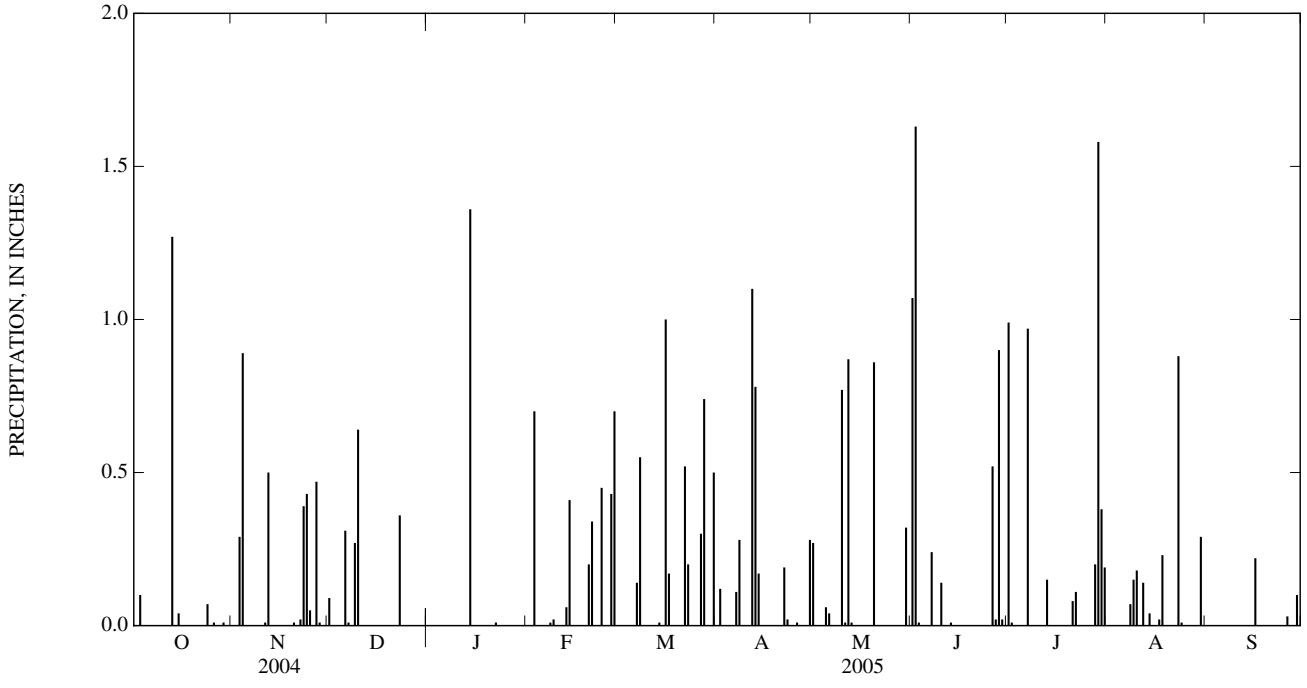
PERIOD OF RECORD.--March 1993 to current year. Records for period March 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.27	1.07	0.99	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	1.63	0.01	0.00	0.00
3	0.10	0.29	0.00	0.00	0.70	0.00	0.00	0.00	0.01	0.00	0.00	0.00
4	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.14	0.11	0.00	0.24	0.97	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.55	0.28	0.00	0.00	0.00	0.07	0.00
9	0.00	0.00	0.27	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.15	0.00
10	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.77	0.14	0.00	0.18	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
12	0.00	0.50	0.00	0.00	0.00	0.00	1.10	0.87	0.00	0.00	0.14	0.00
13	1.27	0.00	0.00	0.00	0.06	0.00	0.78	0.01	0.01	0.15	0.00	0.00
14	0.00	0.00	0.00	1.36	0.41	0.01	0.17	0.00	0.00	0.00	0.04	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.22
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.02	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.86	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.08	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.52	0.19	0.00	0.00	0.11	0.00	0.00
23	0.00	0.39	0.36	0.00	0.00	0.20	0.02	0.00	0.00	0.00	0.88	0.00
24	0.07	0.43	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.52	0.00	0.00	0.03
27	0.00	0.47	0.00	0.00	0.43	0.30	0.00	0.00	0.02	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.70	0.74	0.00	0.00	0.90	0.20	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.02	1.58	0.00	0.10
30	0.00	0.00	0.00	---	---	0.00	0.28	0.32	0.00	0.38	0.29	0.00
31	0.00	---	0.00	0.00	---	0.50	---	0.00	---	0.19	0.00	---
TOTAL	1.50	3.07	1.68	---	3.32	4.13	3.06	3.21	4.56	4.66	2.01	0.35



351132080504145 CRN19

LOCATION.--Lat 35°11'33", long 80°50'41", Mecklenburg County, Hydrologic Unit 03050103, Freedom Park, Cumberland Drive, Charlotte, NC.

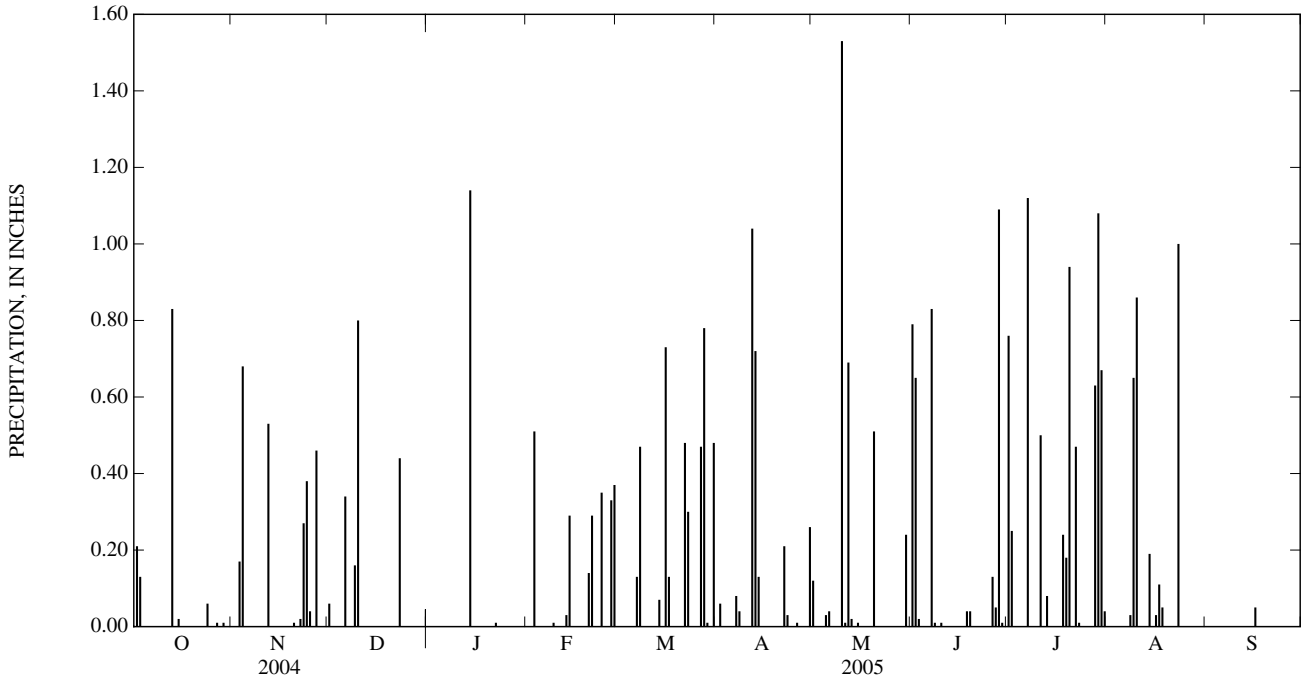
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.12	0.79	0.76	0.00	0.00
2	0.21	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.65	0.25	0.00	0.00
3	0.13	0.17	0.00	0.00	0.51	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
6	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.13	0.08	0.00	0.83	1.12	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.47	0.04	0.00	0.01	0.00	0.03	0.00
9	0.00	0.00	0.16	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.65	0.00
10	0.00	0.00	0.80	0.00	0.00	0.00	0.00	1.53	0.01	0.00	0.86	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.50	0.00	0.00
12	0.00	0.53	0.00	0.00	0.00	0.00	1.04	0.69	0.00	0.00	0.00	0.00
13	0.83	0.00	0.00	0.00	0.03	0.00	0.72	0.02	0.00	0.08	0.00	0.00
14	0.00	0.00	0.00	1.14	0.29	0.07	0.13	0.00	0.00	0.00	0.19	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00	0.00	0.03	0.05
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.11	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.24	0.05	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.18	0.00	0.00
20	0.00	0.01	0.00	0.00	0.14	0.00	0.00	0.51	0.00	0.94	0.00	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.48	0.21	0.00	0.00	0.47	0.00	0.00
23	0.00	0.27	0.44	0.00	0.00	0.30	0.03	0.00	0.00	0.01	1.00	0.00
24	0.06	0.38	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.13	0.00	0.00	0.00
27	0.01	0.46	0.00	0.00	0.33	0.47	0.00	0.00	0.05	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.37	0.78	0.00	0.00	1.09	0.63	0.00	0.00
29	0.01	0.00	0.00	---	---	0.01	0.00	0.00	0.01	1.08	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.26	0.24	0.00	0.67	0.00	0.00
31	0.00	---	0.00	0.00	---	0.48	---	0.00	---	0.04	0.00	---
TOTAL	1.27	2.56	1.80	---	2.32	4.05	2.58	3.20	3.67	6.97	2.92	0.05



351032080475245 CRN20

LOCATION.--Lat 35°10'33", long 80°47'51", Mecklenburg County, Hydrologic Unit 03050103, Fire Station 14, North Sharon Amity Road, Charlotte, NC.

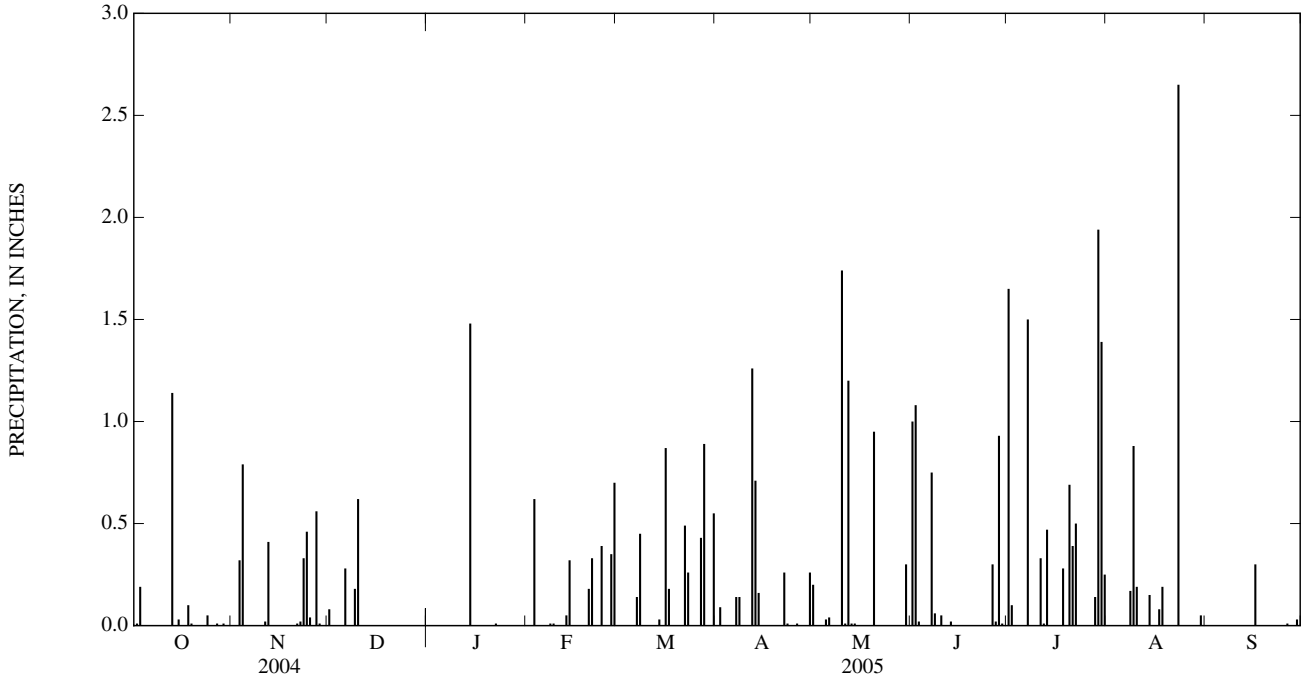
PERIOD OF RECORD.--September 1993 to current year. Records for period September 1993 to September 1998 published in USGS OFR 96-150, 98-67, and 99- 273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.20	1.00	1.65	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	1.08	0.10	0.00	0.00
3	0.19	0.32	0.00	0.00	0.62	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
6	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.14	0.14	0.00	0.75	1.50	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.45	0.14	0.00	0.06	0.00	0.17	0.00
9	0.00	0.00	0.18	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.88	0.00
10	0.00	0.00	0.62	0.00	0.00	0.00	0.00	1.74	0.05	0.00	0.19	0.00
11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.33	0.00	0.00
12	0.00	0.41	0.00	0.00	0.00	0.00	1.26	1.20	0.00	0.01	0.00	0.00
13	1.14	0.00	0.00	0.00	0.05	0.00	0.71	0.01	0.02	0.47	0.00	0.00
14	0.00	0.00	0.00	1.48	0.32	0.03	0.16	0.01	0.00	0.00	0.15	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.87	0.00	0.00	0.00	0.00	0.00	0.30
17	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.08	0.00
18	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.19	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.95	0.00	0.69	0.00	0.00
21	0.00	0.01	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.39	0.00	0.00
22	0.00	0.02	---	0.01	0.00	0.49	0.26	0.00	0.00	0.50	0.00	0.00
23	0.00	0.33	---	0.00	0.00	0.26	0.01	0.00	0.00	0.00	2.65	0.00
24	0.05	0.46	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.30	0.00	0.00	0.01
27	0.01	0.56	0.00	0.00	0.35	0.43	0.00	0.00	0.02	0.00	0.00	0.00
28	0.00	0.01	0.00	0.00	0.70	0.89	0.00	0.00	0.93	0.14	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.01	1.94	0.00	0.03
30	0.00	0.00	0.00	---	---	0.00	0.26	0.30	0.00	1.39	0.05	0.00
31	0.00	---	0.00	0.00	---	0.55	---	0.00	---	0.25	0.00	---
TOTAL	1.55	2.97	---	---	2.96	4.29	3.04	4.49	4.24	9.64	4.36	0.34



350842080572801 CRN21

LOCATION.--Lat 35°09'13", long 80°57'21", Mecklenburg County, Hydrologic Unit 03050103, Kennedy Junior High School, Gallant Lane, Charlotte, NC.

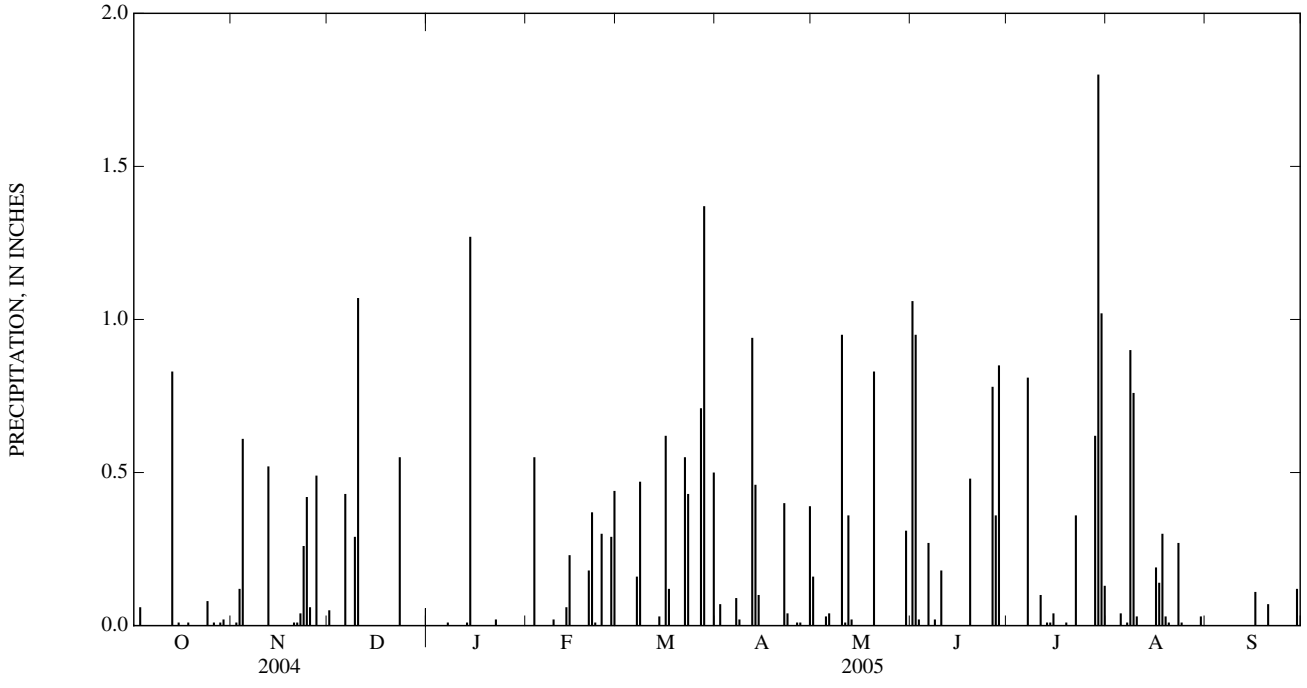
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.16	1.06	0.00	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.07	0.00	0.95	0.00	0.00	0.00
3	0.06	0.12	0.00	0.00	0.55	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.04	0.00
6	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.04	0.27	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.16	0.09	0.00	0.00	0.81	0.01	0.00
8	0.00	0.00	0.00	0.00	0.00	0.47	0.02	0.00	0.02	0.00	0.90	0.00
9	0.00	0.00	0.29	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.76	0.00
10	0.00	0.00	1.07	0.00	0.00	0.00	0.00	0.95	0.18	0.00	0.03	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.10	0.00	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	0.94	0.36	0.00	0.00	0.00	0.00
13	0.83	0.00	0.00	0.01	0.06	0.00	0.46	0.02	0.00	0.01	0.00	0.00
14	0.00	0.00	0.00	1.27	0.23	0.03	0.10	0.00	0.00	0.01	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.19	0.11
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.14	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.01	0.03	0.00
20	0.00	0.01	0.00	0.00	0.18	0.00	0.00	0.83	0.00	0.00	0.01	0.07
21	0.00	0.01	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.01	0.55	0.40	0.00	0.00	0.36	0.00	0.00
23	0.00	0.26	0.55	0.00	0.00	0.43	0.04	0.00	0.00	0.00	0.27	0.00
24	0.08	0.42	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.78	0.00	0.00	0.00
27	0.00	0.49	0.00	0.00	0.29	0.71	0.01	0.00	0.36	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.44	1.37	0.00	0.00	0.85	0.62	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.80	0.00	0.12
30	0.00	0.00	0.00	---	---	0.00	0.39	0.31	0.00	1.02	0.03	0.00
31	0.00	---	0.00	0.00	---	0.50	---	0.00	---	0.13	0.00	---
TOTAL	1.03	2.55	2.39	---	2.45	4.96	2.53	2.71	4.97	4.91	2.72	0.30



350623080583801 CRN22

LOCATION.--Lat 35°06'54", long 80°58'18", Mecklenburg County, Hydrologic Unit 03050103, Lake Wylie Elementary School, Erwin Road, Charlotte, NC.

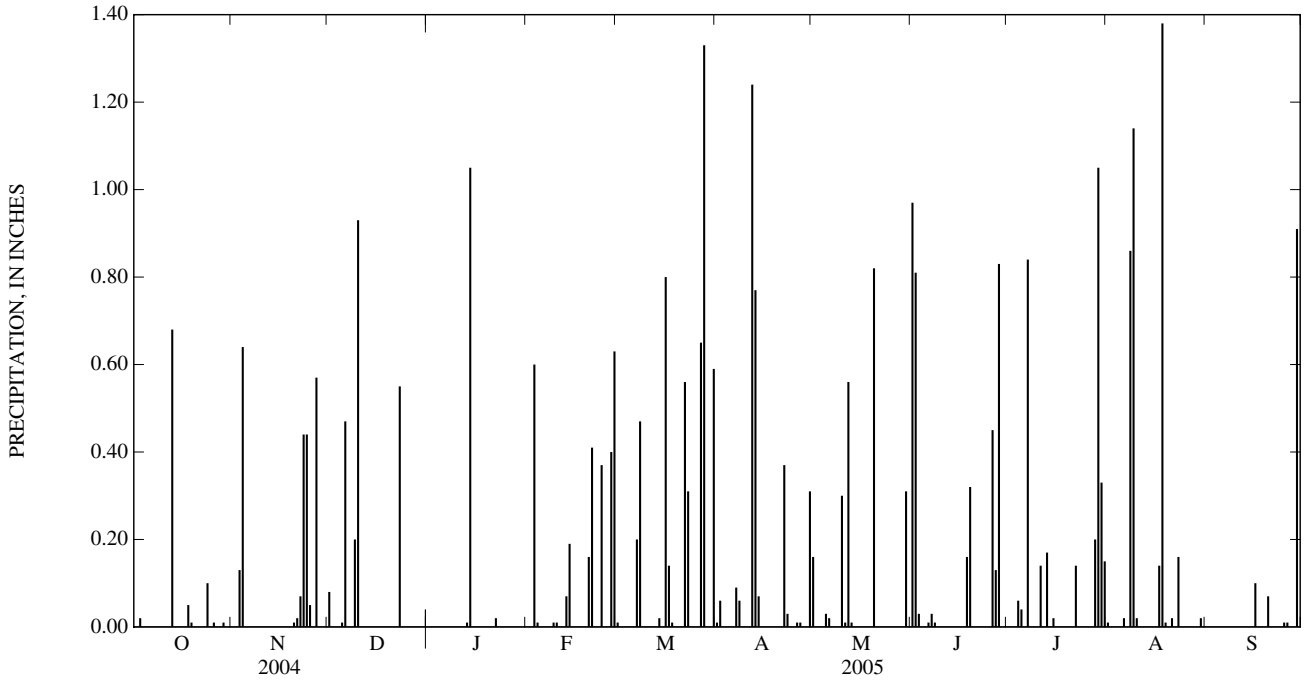
PERIOD OF RECORD.--September 1990 to current year. Records for period September 1990 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station. Prior to Aug. 23, 2000 gage located at private residence, Choate Circle, Charlotte, NC.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	---	0.08	0.00	0.00	0.01	0.01	0.16	0.97	0.00	0.01	0.00
2	0.00	---	0.00	0.00	0.00	0.00	0.06	0.00	0.81	0.00	0.00	0.00
3	0.02	0.13	0.00	0.00	0.60	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.64	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.00	0.00
6	0.00	---	0.47	0.00	0.00	0.00	0.00	0.02	0.01	0.00	0.02	0.00
7	0.00	---	0.00	0.00	0.00	0.20	0.09	0.00	0.03	0.84	0.00	0.00
8	0.00	---	0.00	0.00	0.00	0.47	0.06	0.00	0.01	0.00	0.86	0.00
9	0.00	---	0.20	0.00	0.01	0.00	0.00	0.00	0.00	0.00	1.14	0.00
10	0.00	---	0.93	0.00	0.01	0.00	0.00	0.30	0.00	0.00	0.02	0.00
11	0.00	---	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.00	0.00
12	0.00	---	0.00	0.00	0.00	0.00	1.24	0.56	0.00	0.00	0.00	0.00
13	0.68	---	0.00	0.01	0.07	0.00	0.77	0.01	0.00	0.17	0.00	0.00
14	0.00	---	0.00	1.05	0.19	0.02	0.07	0.00	0.00	0.00	0.00	0.00
15	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
16	0.00	---	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	0.10
17	0.00	---	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.14	0.00
18	0.05	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.16	0.00	1.38	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.01	0.00
20	0.00	0.01	0.00	0.00	0.16	0.00	0.00	0.82	0.00	0.00	0.00	0.07
21	0.00	0.02	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.02	0.00
22	0.00	0.07	0.00	0.02	0.00	0.56	0.37	0.00	0.00	0.14	0.00	0.00
23	0.00	0.44	0.55	0.00	0.00	0.31	0.03	0.00	0.00	0.00	0.16	0.00
24	0.10	0.44	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.45	0.00	0.00	0.01
27	0.00	0.57	0.00	0.00	0.40	0.65	0.01	0.00	0.13	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.63	1.33	0.00	0.00	0.83	0.20	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.05	0.00	0.91
30	---	0.00	0.00	---	---	0.00	0.31	0.31	0.00	0.33	0.02	0.00
31	---	---	0.00	0.00	---	0.59	---	0.00	---	0.15	0.00	---
TOTAL	---	---	2.24	---	2.86	5.09	3.03	2.22	3.75	3.14	3.78	1.10



351604080470845 CRN27

LOCATION.--Lat 35°16'04", long 80°47'08", Mecklenburg County, Hydrologic Unit 03050103, Hidden Valley Elementary School, Snow White Lane, Charlotte, NC.

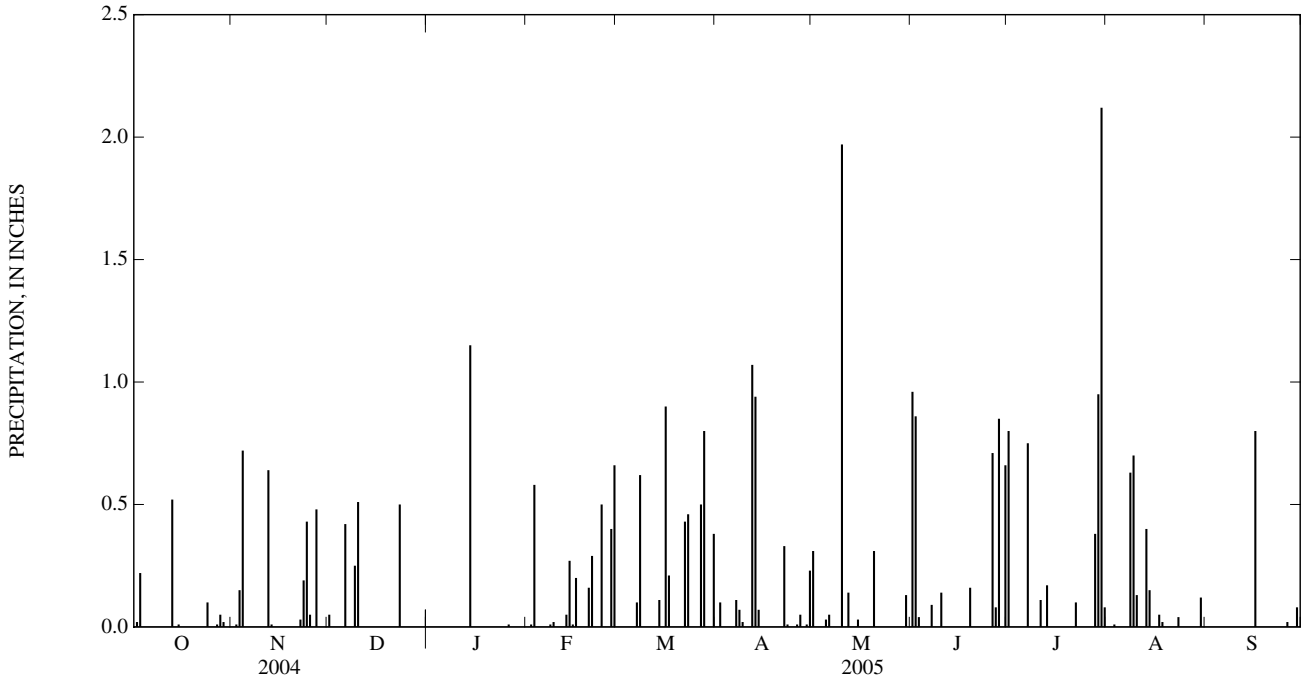
PERIOD OF RECORD.--October 1994 to current year. Records for period October 1994 to September 1998 published in USGS OFR 96-150, 98-67, and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.31	0.96	0.80	0.00	0.00
2	0.02	0.01	0.00	0.00	0.01	0.00	0.10	0.00	0.86	0.00	0.00	0.00
3	0.22	0.15	0.00	0.00	0.58	0.00	0.00	0.00	0.04	0.00	0.01	0.00
4	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
6	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.10	0.11	0.00	0.09	0.75	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.62	0.07	0.00	0.00	0.00	0.63	0.00
9	0.00	0.00	0.25	0.00	0.02	0.00	0.02	0.00	0.00	0.00	0.70	0.00
10	0.00	0.00	0.51	0.00	0.00	0.00	0.00	1.97	0.14	0.00	0.13	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00
12	0.00	0.64	0.00	0.00	0.00	0.00	1.07	0.14	0.00	0.00	0.00	0.00
13	0.52	0.01	0.00	0.00	0.05	0.00	0.94	0.00	0.00	0.17	0.40	0.00
14	0.00	0.00	0.00	1.15	0.27	0.11	0.07	0.00	0.00	0.00	0.15	0.00
15	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.20	0.90	0.00	0.00	0.00	0.00	0.00	0.80
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.05	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.31	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.00	0.00	0.43	0.33	0.00	0.00	0.10	0.00	0.00
23	0.00	0.19	0.50	0.00	0.00	0.46	0.01	0.00	0.00	0.00	0.04	0.00
24	0.10	0.43	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.71	0.00	0.00	0.02
27	0.01	0.48	0.00	0.00	0.40	0.50	0.05	0.00	0.08	0.00	0.00	0.00
28	0.05	0.00	0.00	0.00	0.66	0.80	0.00	0.00	0.85	0.38	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.95	0.00	0.08
30	0.00	0.00	0.00	---	---	0.00	0.23	0.13	0.66	2.12	0.12	0.00
31	0.00	---	0.00	0.00	---	0.38	---	0.00	---	0.08	0.00	---
TOTAL	0.95	2.71	1.73	---	3.16	4.51	3.02	2.97	4.55	5.46	2.25	0.90



350110080502045 CRN31

LOCATION.--Lat 35°01'11", long 80°50'17", Mecklenburg County, Hydrologic Unit 03050103, Elon Homes for Children, Ardrey-Kell Road, Charlotte, NC.

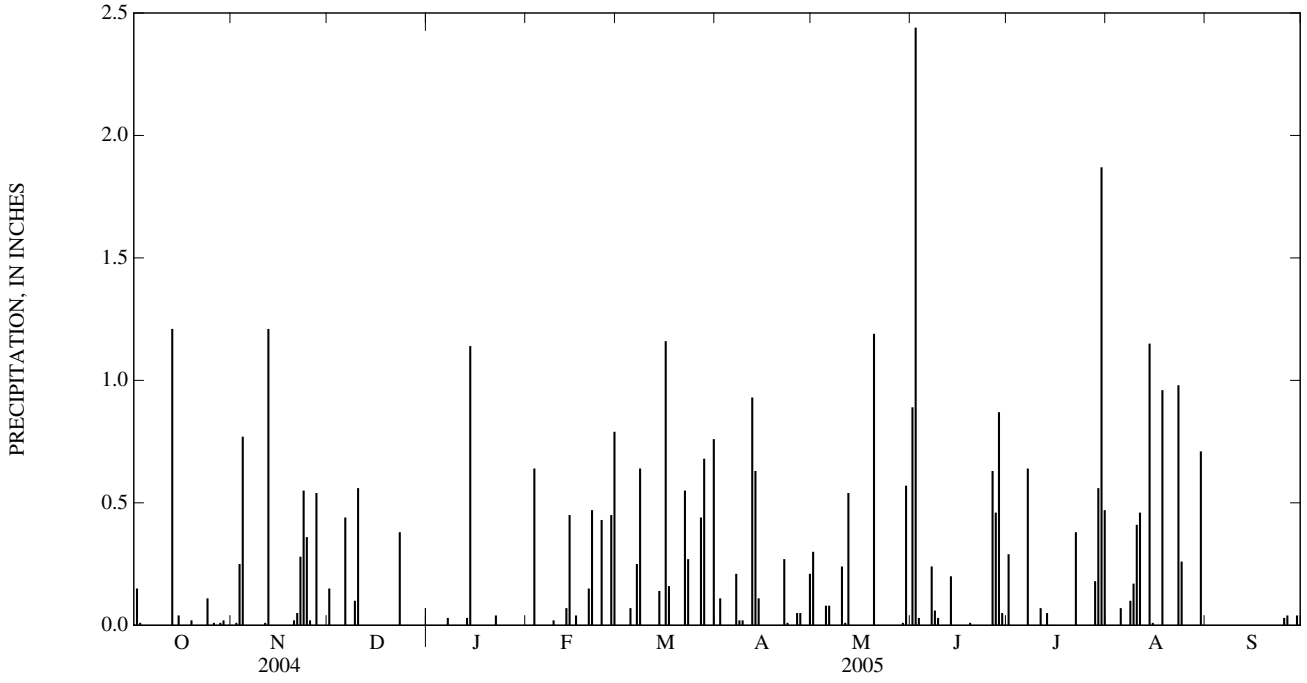
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.30	0.89	0.29	0.00	0.00
2	0.15	0.01	0.00	0.00	0.00	0.00	0.11	0.00	2.44	0.00	0.00	0.00
3	0.01	0.25	0.00	0.00	0.64	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.08	0.00	0.00	0.07	0.00
6	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.03	0.00	0.25	0.21	0.00	0.24	0.64	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.64	0.02	0.00	0.06	0.00	0.10	0.00
9	0.00	0.00	0.10	0.00	0.02	0.00	0.02	0.00	0.03	0.00	0.17	0.00
10	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.41	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.46	0.00
12	0.00	1.21	0.00	0.00	0.00	0.00	0.93	0.54	0.00	0.00	0.00	0.00
13	1.21	0.00	0.00	0.03	0.07	0.00	0.63	0.00	0.20	0.05	0.00	0.00
14	0.00	0.00	0.00	1.14	0.45	0.14	0.11	0.00	0.00	0.00	1.15	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.04	1.16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00
19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.15	0.00	0.00	1.19	0.00	0.00	0.00	0.00
21	0.00	0.05	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.28	0.00	0.04	0.00	0.55	0.27	0.00	0.00	0.38	0.00	0.00
23	0.00	0.55	0.38	0.00	0.00	0.27	0.01	0.00	0.00	0.00	0.98	0.00
24	0.11	0.36	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.26	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
26	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.63	0.00	0.00	0.04
27	0.00	0.54	0.00	0.00	0.45	0.44	0.05	0.00	0.46	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.79	0.68	0.00	0.00	0.87	0.18	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.01	0.05	0.56	0.00	0.04
30	0.00	0.00	0.00	---	---	0.00	0.21	0.57	0.00	1.87	0.71	0.00
31	0.00	---	0.00	0.00	---	0.76	---	0.00	---	0.47	0.00	---
TOTAL	1.58	4.07	1.63	---	3.51	5.12	2.62	3.02	5.91	4.51	5.28	0.11



352555080574445 CRN34

LOCATION.--Lat 35°25'52", long 80°57'45", Lincoln County, Hydrologic Unit 03050101, Cowans Ford Dam warehouse, Duke Lane, Huntersville, NC.

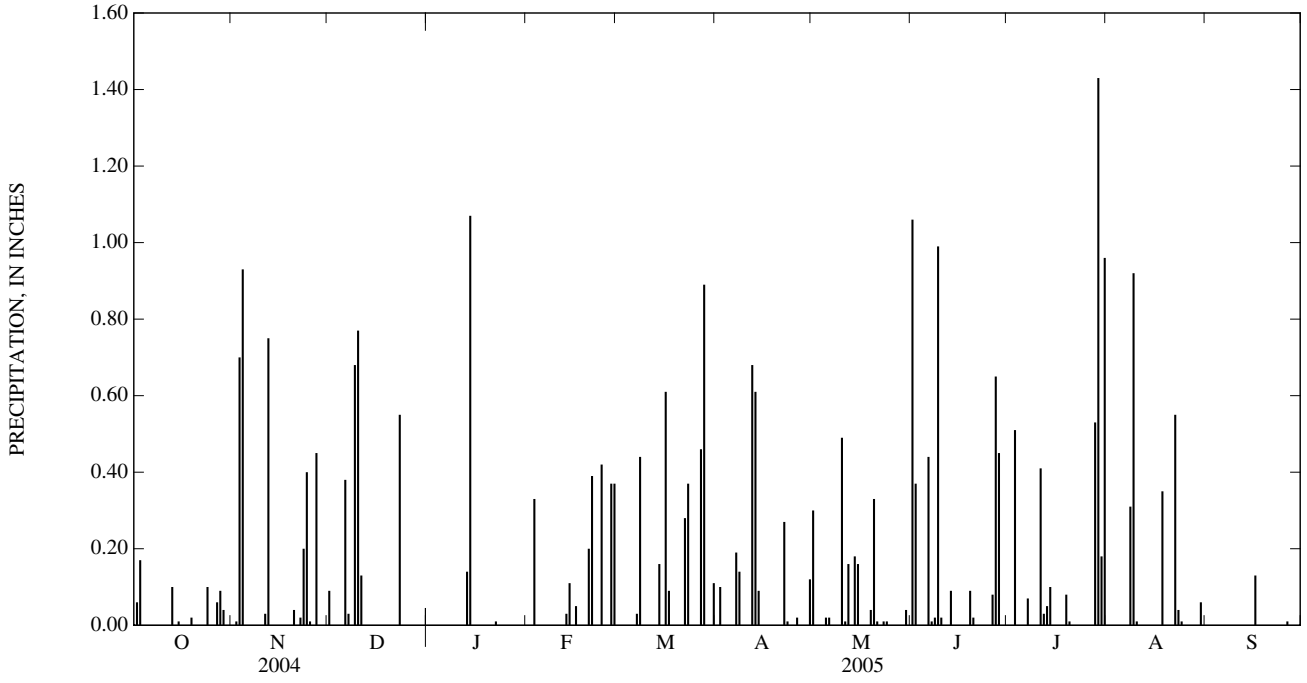
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.30	1.06	0.00	0.00	0.00
2	0.06	0.01	0.00	0.00	0.00	0.00	0.10	0.00	0.37	0.00	0.00	0.00
3	0.17	0.70	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.51	0.00	0.00
4	0.00	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
6	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.02	0.44	0.00	0.00	0.00
7	0.00	0.00	0.03	0.00	0.00	0.03	0.19	0.00	0.01	0.07	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.44	0.14	0.00	0.02	0.00	0.31	0.00
9	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.92	0.00
10	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.49	0.02	0.00	0.01	0.00
11	0.00	0.03	0.13	0.00	0.00	0.00	0.00	0.01	0.00	0.41	0.00	0.00
12	0.00	0.75	0.00	0.00	0.00	0.00	0.68	0.16	0.00	0.03	0.00	0.00
13	0.10	0.00	0.00	0.14	0.03	0.00	0.61	0.00	0.09	0.05	0.00	0.00
14	0.00	0.00	0.00	1.07	0.11	0.16	0.09	0.18	0.00	0.10	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.05	0.61	0.00	0.00	0.00	0.00	0.00	0.13
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00
19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.09	0.08	0.00	0.00
20	0.00	0.04	0.00	0.00	0.20	0.00	0.00	0.33	0.02	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.01	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.01	0.00	0.28	0.27	0.00	0.00	0.00	0.55	0.00
23	0.00	0.20	0.55	0.00	0.00	0.37	0.01	0.01	0.00	0.00	0.04	0.00
24	0.10	0.40	0.00	0.00	0.42	0.00	0.00	0.01	0.00	0.00	0.01	0.00
25	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.08	0.00	0.00	0.01
27	0.06	0.45	0.00	0.00	0.37	0.46	0.00	0.00	0.65	0.00	0.00	0.00
28	0.09	0.00	0.00	0.00	0.37	0.89	0.00	0.00	0.45	0.53	0.00	0.00
29	0.04	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.43	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.12	0.04	0.00	0.18	0.06	0.00
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	0.96	0.00	---
TOTAL	0.65	3.54	2.63	---	2.27	3.44	2.23	1.78	4.29	4.36	2.25	0.14



351247080592745 CRN37

LOCATION.--Lat 35°12'47", long 80°59'26", Mecklenburg County, Hydrologic Unit 03050101, Berryhill Elementary School, Walkers Ferry Road, Charlotte, NC.

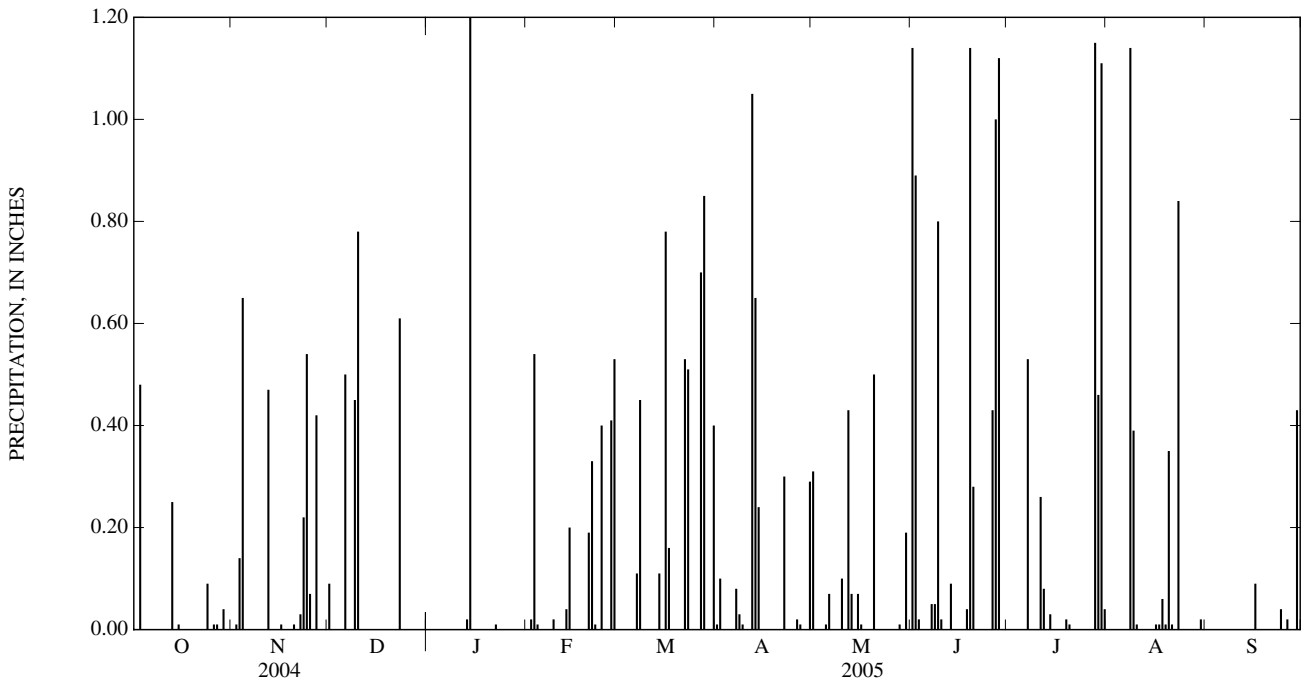
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.01	0.31	1.14	0.00	0.00	0.00
2	0.00	0.01	0.00	0.00	0.02	0.00	0.10	0.00	0.89	0.00	0.00	0.00
3	0.48	0.14	0.00	0.00	0.54	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.65	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
6	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.11	0.08	0.00	0.05	0.53	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.45	0.03	0.00	0.05	0.00	1.14	0.00
9	0.00	0.00	0.45	0.00	0.02	0.00	0.01	0.00	0.80	0.00	0.39	0.00
10	0.00	0.00	0.78	0.00	0.00	0.00	0.00	0.10	0.02	0.00	0.01	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
12	0.00	0.47	0.00	0.00	0.00	0.00	1.05	0.43	0.00	0.08	0.00	0.00
13	0.25	0.00	0.00	0.02	0.04	0.00	0.65	0.07	0.09	0.00	0.00	0.00
14	0.00	0.00	0.00	1.20	0.20	0.11	0.24	0.00	0.00	0.03	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.78	0.00	0.01	0.00	0.00	0.01	0.09
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.06	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	0.02	0.01	0.00
20	0.00	0.01	0.00	0.00	0.19	0.00	0.00	0.50	0.28	0.01	0.35	0.00
21	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.03	0.00	0.01	0.01	0.53	0.30	0.00	0.00	0.00	0.00	0.00
23	0.00	0.22	0.61	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.84	0.00
24	0.09	0.54	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.04
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.43	0.00	0.00	0.02
27	0.01	0.42	0.00	0.00	0.41	0.70	0.01	0.00	1.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.53	0.85	0.00	0.01	1.12	1.15	0.00	0.00
29	0.04	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.46	0.00	0.43
30	0.00	0.00	0.00	---	---	0.00	0.29	0.19	0.00	1.11	0.02	0.00
31	0.00	---	0.00	---	---	0.40	---	0.00	---	0.04	0.00	---
TOTAL	0.89	2.57	2.43	---	2.70	4.60	2.79	1.77	7.07	3.69	2.85	0.58



350200081020345 CRN38

LOCATION.--Lat 35°02'00", long 81°02'06", York County, South Carolina, Hydrologic Unit 03050101, Tega Cay Town Hall, Tega Cay Drive, Tega Cay, SC.

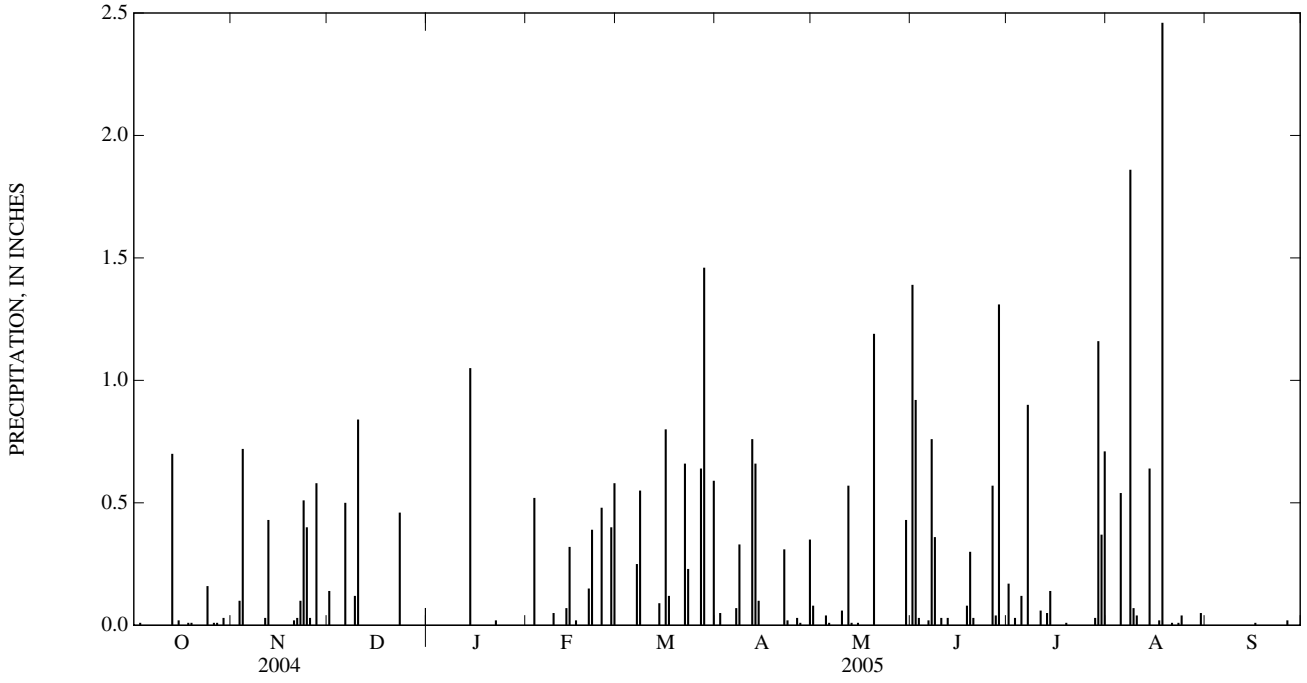
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.08	1.39	0.17	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.92	0.00	0.00	0.00
3	0.01	0.10	0.00	0.00	0.52	0.00	0.00	0.00	0.03	0.03	0.00	0.00
4	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.12	0.54	0.00
6	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.25	0.07	0.00	0.76	0.90	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.55	0.33	0.00	0.36	0.00	1.86	0.00
9	0.00	0.00	0.12	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.07	0.00
10	0.00	0.00	0.84	0.00	0.00	0.00	0.00	0.06	0.03	0.00	0.04	0.00
11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
12	0.00	0.43	0.00	0.00	0.00	0.00	0.76	0.57	0.03	0.00	0.00	0.00
13	0.70	0.00	0.00	0.00	0.07	0.00	0.66	0.01	0.00	0.05	0.00	0.00
14	0.00	0.00	0.00	1.05	0.32	0.09	0.10	0.00	0.00	0.14	0.64	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.02	0.80	0.00	0.00	0.00	0.00	0.00	0.01
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.02	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	2.46	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.01	0.00	0.00
20	0.00	0.02	0.00	0.00	0.15	0.00	0.00	1.19	0.03	0.00	0.00	0.00
21	0.00	0.03	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.10	0.00	0.02	0.00	0.66	0.31	0.00	0.00	0.00	0.00	0.00
23	0.00	0.51	0.46	0.00	0.00	0.23	0.02	0.00	0.00	0.00	0.01	0.00
24	0.16	0.40	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.04	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.57	0.00	0.00	0.02
27	0.01	0.58	0.00	0.00	0.40	0.64	0.01	0.00	0.04	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.58	1.46	0.00	0.00	1.31	0.03	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.16	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.35	0.43	0.00	0.37	0.05	0.00
31	0.00	---	0.00	0.00	---	0.59	---	0.00	---	0.71	0.00	---
TOTAL	0.96	2.95	2.06	---	2.98	5.39	2.69	2.40	5.87	3.75	5.74	0.03



353003080591745 CRN40

LOCATION.--Lat 35°29'56", long 80°59'12", Lincoln County, Hydrologic Unit 03050101, Westport Golf Course driving range, Denver, NC.

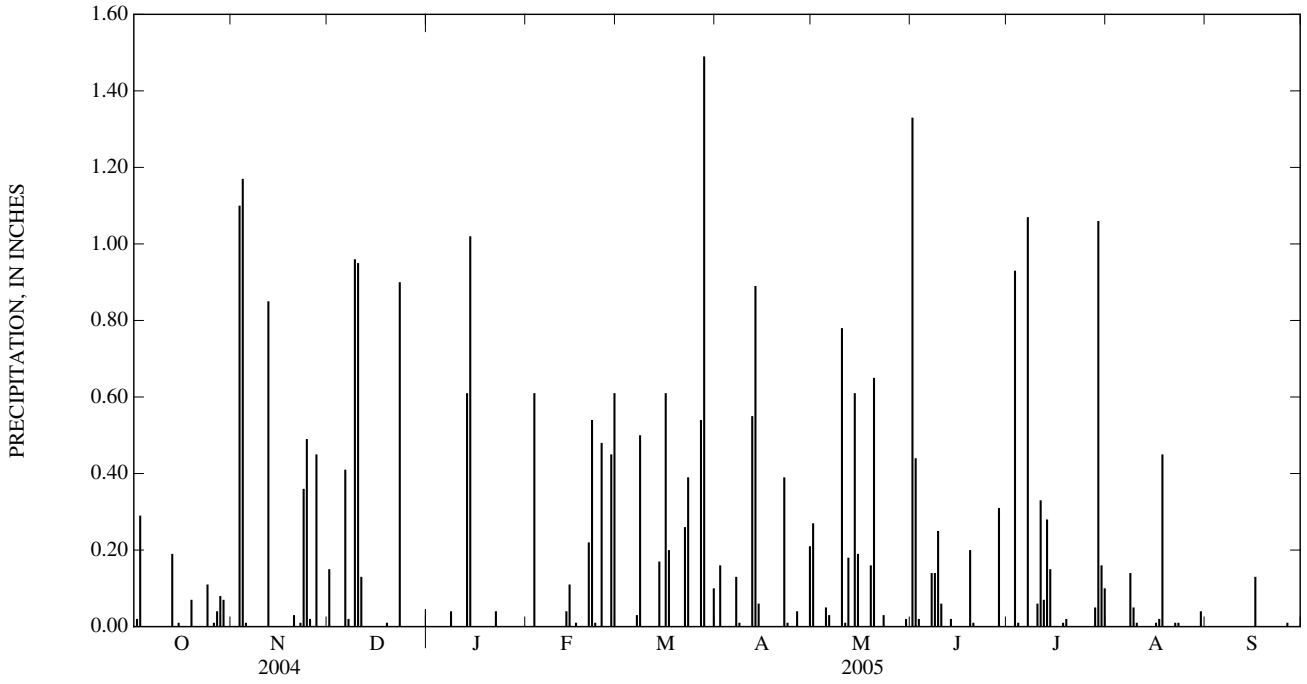
PERIOD OF RECORD.--February 1996 to current year. Records for period February 1996 to September 1998 published in USGS OFR 98-67 and 99-273. Records for February 1996 to June 1996 at site Lake Norman Fire Department, Mooresville, NC (station 353402080543145).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.27	1.33	0.00	0.00	0.00
2	0.02	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.44	0.00	0.00	0.00
3	0.29	1.10	0.00	0.00	0.61	0.00	0.00	0.00	0.02	0.93	0.00	0.00
4	0.00	1.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.03	0.13	0.00	0.14	1.07	0.00	0.00
8	0.00	0.00	0.00	0.04	0.00	0.50	0.01	0.00	0.14	0.00	0.14	0.00
9	0.00	0.00	0.96	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.05	0.00
10	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.78	0.06	0.06	0.01	0.00
11	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.01	0.00	0.33	0.00	0.00
12	0.00	0.85	0.00	0.00	0.00	0.00	0.55	0.18	0.00	0.07	0.00	0.00
13	0.19	0.00	0.00	0.61	0.04	0.00	0.89	0.00	0.02	0.28	0.00	0.00
14	0.00	0.00	0.00	1.02	0.11	0.17	0.06	0.61	0.00	0.15	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.61	0.00	0.00	0.00	0.00	0.01	0.13
17	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.02	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.45	0.00
19	0.07	0.00	0.01	0.00	0.00	0.00	0.00	0.16	0.20	0.02	0.00	0.00
20	0.00	0.03	0.00	0.00	0.22	0.00	0.00	0.65	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.04	0.01	0.26	0.39	0.00	0.00	0.00	0.01	0.00
23	0.00	0.36	0.90	0.00	0.00	0.39	0.01	0.03	0.00	0.00	0.01	0.00
24	0.11	0.49	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.01
27	0.04	0.45	0.00	0.00	0.45	0.54	0.00	0.00	0.00	0.00	0.00	0.00
28	0.08	0.00	0.00	0.00	0.61	1.49	0.00	0.00	0.31	0.05	0.00	0.00
29	0.07	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.06	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.21	0.02	0.00	0.16	0.04	0.00
31	0.00	---	0.00	0.00	---	0.10	---	0.00	---	0.10	0.00	---
TOTAL	0.89	4.49	3.53	---	3.08	4.29	2.45	2.98	2.92	4.30	0.74	0.14



353014080524945 CRN42

LOCATION.--Lat 35°30'16", long 80°52'47", Mecklenburg County, Hydrologic Unit 03050101, private residence, Norman Shores Drive, Cornelius, NC.

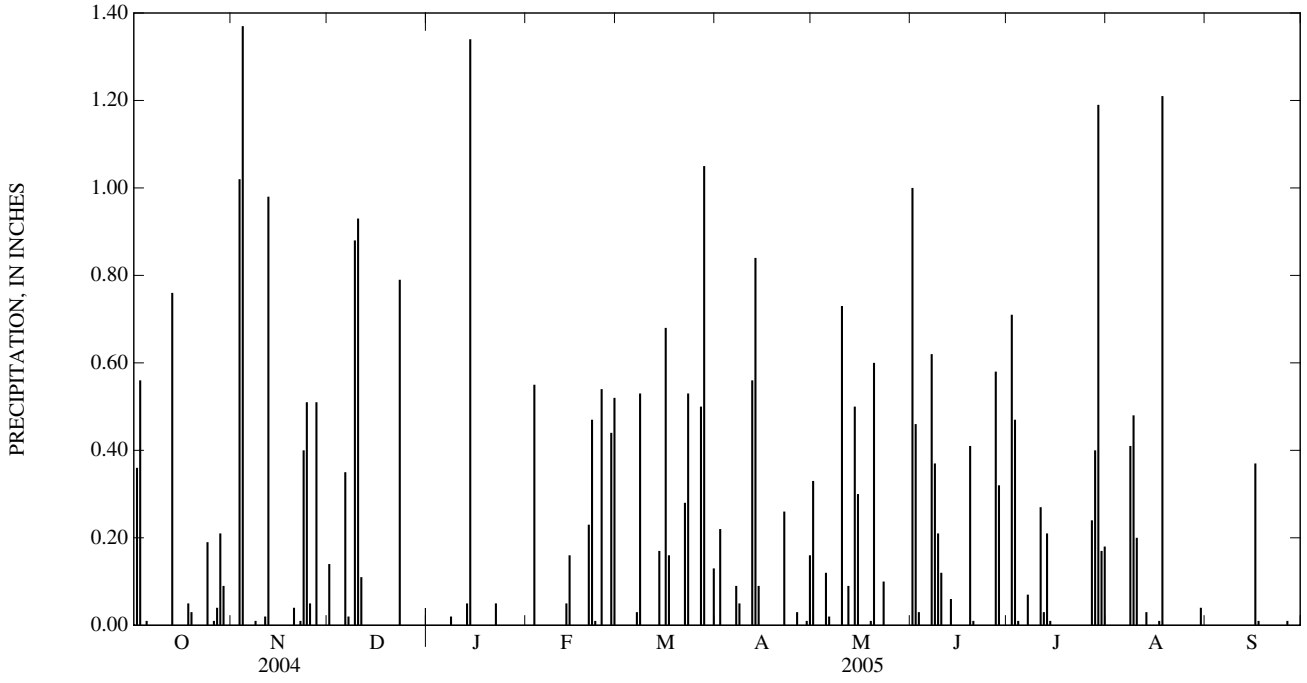
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.33	1.00	0.00	0.00	0.00
2	0.36	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.46	0.71	0.00	0.00
3	0.56	1.02	0.00	0.00	0.55	0.00	0.00	0.00	0.03	0.47	0.00	0.00
4	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
6	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
7	0.00	0.00	0.02	0.00	0.00	0.03	0.09	0.00	0.62	0.07	0.00	0.00
8	0.00	0.01	0.00	0.02	0.00	0.53	0.05	0.00	0.37	0.00	0.41	0.00
9	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.48	0.00
10	0.00	0.00	0.93	0.00	0.00	0.00	0.00	0.73	0.12	0.00	0.20	0.00
11	0.00	0.02	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00
12	0.00	0.98	0.00	0.00	0.00	0.00	0.56	0.09	0.00	0.03	0.00	0.00
13	0.76	0.00	0.00	0.05	0.05	0.00	0.84	0.00	0.06	0.21	0.03	0.00
14	0.00	0.00	0.00	1.34	0.16	0.17	0.09	0.50	0.00	0.01	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.37
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.01	0.01
18	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.21	0.00
19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.41	0.00	0.00	0.00
20	0.00	0.04	0.00	0.00	0.23	0.00	0.00	0.60	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.05	0.01	0.28	0.26	0.00	0.00	0.00	0.00	0.00
23	0.00	0.40	0.79	0.00	0.00	0.53	0.00	0.10	0.00	0.00	0.00	0.00
24	0.19	0.51	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.01
27	0.04	0.51	0.00	0.00	0.44	0.50	0.00	0.00	0.58	0.24	0.00	0.00
28	0.21	0.00	0.00	0.00	0.52	1.05	0.00	0.00	0.32	0.40	0.00	0.00
29	0.09	0.00	0.00	---	---	0.00	0.01	0.00	0.00	1.19	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.16	0.00	0.00	0.17	0.04	0.00
31	0.00	---	0.00	0.00	---	0.13	---	0.00	---	0.18	0.00	---
TOTAL	2.31	4.92	3.22	---	2.97	4.06	2.31	2.80	4.19	3.96	2.38	0.39



352440080505045 CRN43

LOCATION.--Lat 35°24'40", long 80°50'47", Mecklenburg County, Hydrologic Unit 03050101, Huntersville Elementary School, Gilead Road, Huntersville, NC.

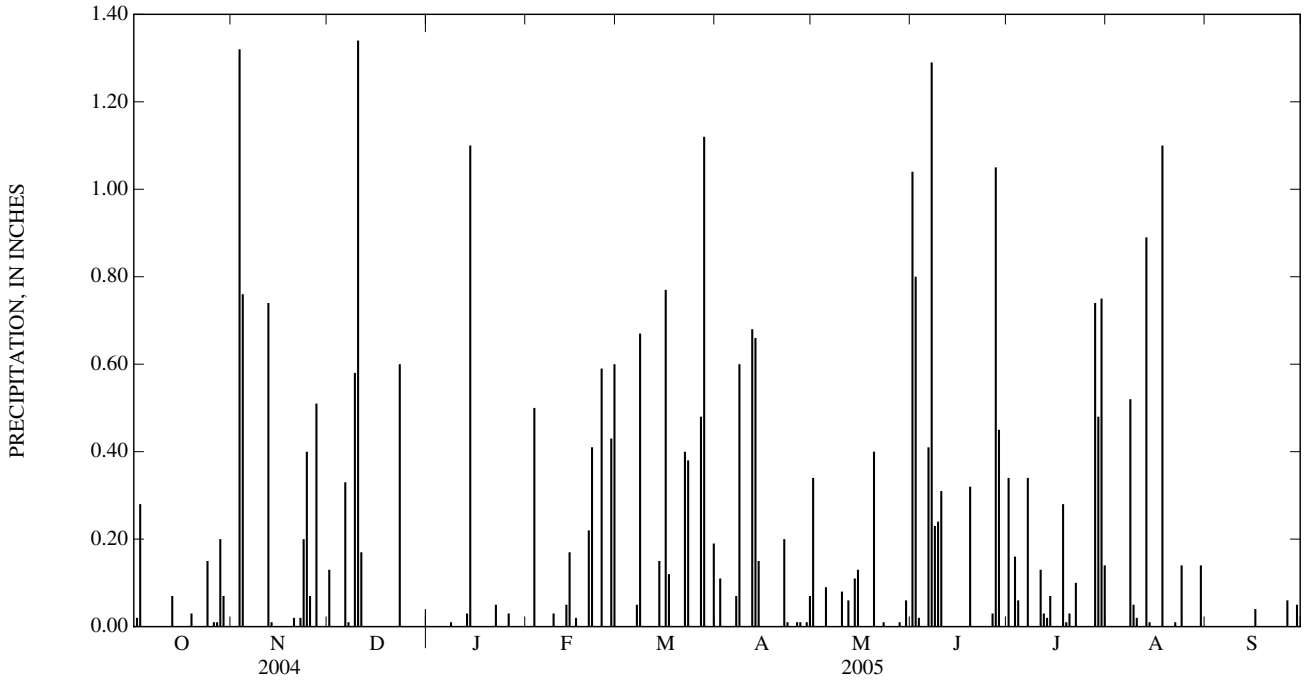
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.34	1.04	0.34	0.00	0.00
2	0.02	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.80	0.00	0.00	0.00
3	0.28	1.32	0.00	0.00	0.50	0.00	0.00	0.00	0.02	0.16	0.00	0.00
4	0.00	0.76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.05	0.07	0.00	1.29	0.34	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.67	0.60	0.00	0.23	0.00	0.52	0.00
9	0.00	0.00	0.58	0.00	0.03	0.00	0.00	0.00	0.24	0.00	0.05	0.00
10	0.00	0.00	1.34	0.00	0.00	0.00	0.00	0.08	0.31	0.00	0.02	0.00
11	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
12	0.00	0.74	0.00	0.00	0.00	0.00	0.68	0.06	0.00	0.03	0.00	0.00
13	0.07	0.01	0.00	0.03	0.05	0.00	0.66	0.00	0.00	0.02	0.89	0.00
14	0.00	0.00	0.00	1.10	0.17	0.15	0.15	0.11	0.00	0.07	0.01	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.02	0.77	0.00	0.00	0.00	0.00	0.00	0.04
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.10	0.00
19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.01	0.00	0.00
20	0.00	0.02	0.00	0.00	0.22	0.00	0.00	0.40	0.00	0.03	0.00	0.00
21	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.05	0.00	0.40	0.20	0.00	0.00	0.10	0.01	0.00
23	0.00	0.20	0.60	0.00	0.00	0.38	0.01	0.01	0.00	0.00	0.00	0.00
24	0.15	0.40	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.14	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.06
27	0.01	0.51	0.00	0.00	0.43	0.48	0.01	0.00	1.05	0.00	0.00	0.00
28	0.20	0.00	0.00	0.00	0.60	1.12	0.00	0.01	0.45	0.74	0.00	0.00
29	0.07	0.00	0.00	---	---	0.00	0.01	0.00	0.00	0.48	0.00	0.05
30	0.00	0.00	0.00	---	---	0.00	0.07	0.06	0.00	0.75	0.14	0.00
31	0.00	---	0.00	0.00	---	0.19	---	0.00	---	0.14	0.00	---
TOTAL	0.84	4.05	3.16	---	3.02	4.33	2.58	1.29	6.19	3.68	2.88	0.15



350903081004545 CRN45

LOCATION.--Lat 35°09'02", long 81°00'43", Mecklenburg County, Hydrologic Unit 03050101, private residence, Withers Cove Road, Charlotte, NC.

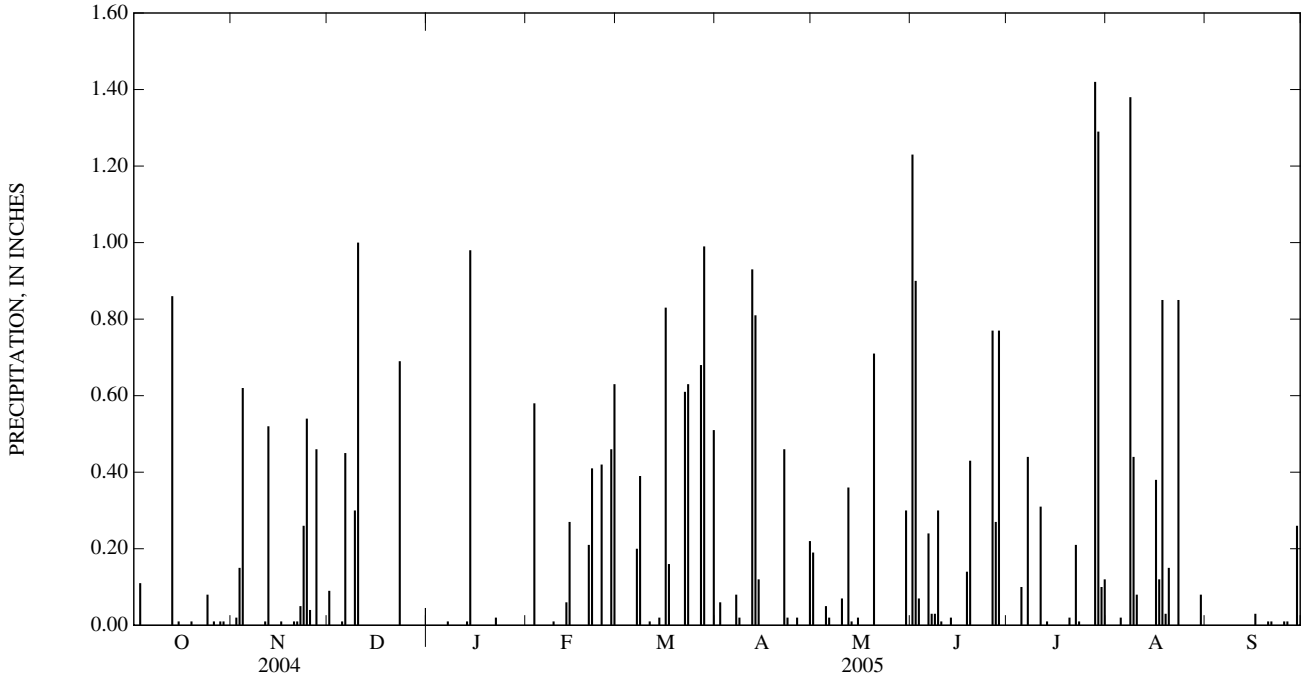
PERIOD OF RECORD.--January 1997 to current year. Records for period January 1997 to September 1998 published in USGS OFR 98-67 and 99-273.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.19	1.23	0.00	0.00	0.00
2	0.00	0.02	0.00	0.00	0.00	0.00	0.06	0.00	0.90	0.00	0.00	0.00
3	0.11	0.15	0.00	0.00	0.58	0.00	0.00	0.00	0.07	0.00	0.00	0.00
4	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.00	0.10	0.02	0.00
6	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.02	0.24	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.20	0.08	0.00	0.03	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.39	0.02	0.00	0.03	0.00	1.38	0.00
9	0.00	0.00	0.30	0.00	0.01	0.00	0.00	0.00	0.30	0.00	0.44	0.00
10	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.07	0.01	0.00	0.08	0.00
11	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.31	0.00	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	0.93	0.36	0.00	0.00	0.00	0.00
13	0.86	0.00	0.00	0.01	0.06	0.00	0.81	0.01	0.02	0.01	0.00	0.00
14	0.00	0.00	0.00	0.98	0.27	0.02	0.12	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.83	0.00	0.00	0.00	0.00	0.38	0.03
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.12	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.85	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.03	0.00
20	0.00	0.01	0.00	0.00	0.21	0.00	0.00	0.71	0.00	0.02	0.15	0.01
21	0.00	0.01	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.01
22	0.00	0.05	0.00	0.02	0.00	0.61	0.46	0.00	0.00	0.21	0.00	0.00
23	0.00	0.26	0.69	0.00	0.00	0.63	0.02	0.00	0.00	0.01	0.85	0.00
24	0.08	0.54	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.77	0.00	0.00	0.01
27	0.00	0.46	0.00	0.00	0.46	0.68	0.00	0.00	0.27	0.00	0.00	0.00
28	0.01	0.00	0.00	0.00	0.63	0.99	0.00	0.00	0.77	1.42	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.29	0.00	0.26
30	0.00	0.00	0.00	---	---	0.00	0.22	0.30	0.00	0.10	0.08	0.00
31	0.00	---	0.00	0.00	---	0.51	---	0.00	---	0.12	0.00	---
TOTAL	1.10	2.70	2.54	---	3.05	5.03	2.74	1.73	5.21	4.03	4.38	0.33



351229080460245 CRN47

LOCATION.--Lat 35°12'28", long 80°46'00", Mecklenburg County, Hydrologic Unit 03050103, Winterfield Elementary School, Winterfield Place, Charlotte, NC.

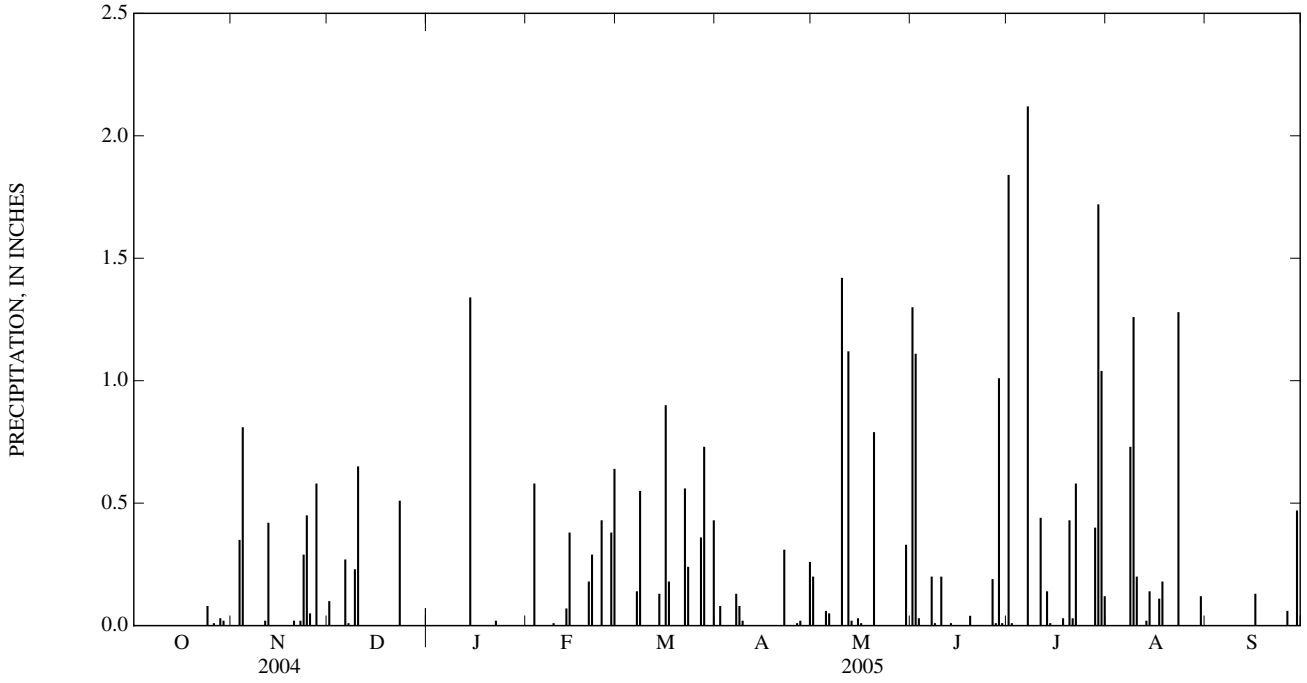
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.00	0.10	0.00	0.00	0.00	0.00	0.20	1.30	1.84	0.00	0.00
2	---	0.00	0.00	0.00	0.00	0.00	0.08	0.00	1.11	0.01	0.00	0.00
3	---	0.35	0.00	0.00	0.58	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	---	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	---	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	---	0.00	0.27	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
7	---	0.00	0.01	0.00	0.00	0.14	0.13	0.00	0.20	2.12	0.00	0.00
8	---	0.00	0.00	0.00	0.00	0.55	0.08	0.00	0.01	0.00	0.73	0.00
9	---	0.00	0.23	0.00	0.01	0.00	0.02	0.00	0.00	0.00	1.26	0.00
10	---	0.00	0.65	0.00	0.00	0.00	0.00	1.42	0.20	0.00	0.20	0.00
11	---	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00
12	---	0.42	0.00	0.00	0.00	0.00	---	1.12	0.00	0.00	0.00	0.00
13	---	0.00	0.00	0.00	0.07	0.00	---	0.02	0.01	0.14	0.02	0.00
14	---	0.00	0.00	1.34	0.38	0.13	---	0.00	0.00	0.01	0.14	0.00
15	---	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
16	---	0.00	0.00	0.00	0.00	0.90	0.00	0.01	0.00	0.00	0.00	0.13
17	---	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.11	0.00
18	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.18	0.00
19	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
20	---	0.02	0.00	0.00	0.18	0.00	0.00	0.79	0.00	0.43	0.00	0.00
21	---	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.03	0.00	0.00
22	0.00	0.02	0.00	0.02	0.00	0.56	0.31	0.00	0.00	0.58	0.00	0.00
23	0.00	0.29	0.51	0.00	0.00	0.24	0.00	0.00	0.00	0.00	1.28	0.00
24	0.08	0.45	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.19	0.00	0.00	0.06
27	0.00	0.58	0.00	0.00	0.38	0.36	0.02	0.00	0.01	0.00	0.00	0.00
28	0.03	0.00	0.00	0.00	0.64	0.73	0.00	0.00	1.01	0.40	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.01	1.72	0.00	0.47
30	0.00	0.00	0.00	---	---	0.00	0.26	0.33	0.00	1.04	0.12	0.00
31	0.00	---	0.00	0.00	---	0.43	---	0.00	---	0.12	0.00	---
TOTAL	---	3.01	1.77	---	2.96	4.22	---	4.03	4.12	8.91	4.04	0.66



350637080475645 CRN48

LOCATION.--Lat 35°06'40", long 80°47'55", Mecklenburg County, Hydrologic Unit 03050103, Olde Providence School, Rea Road, Charlotte, NC.

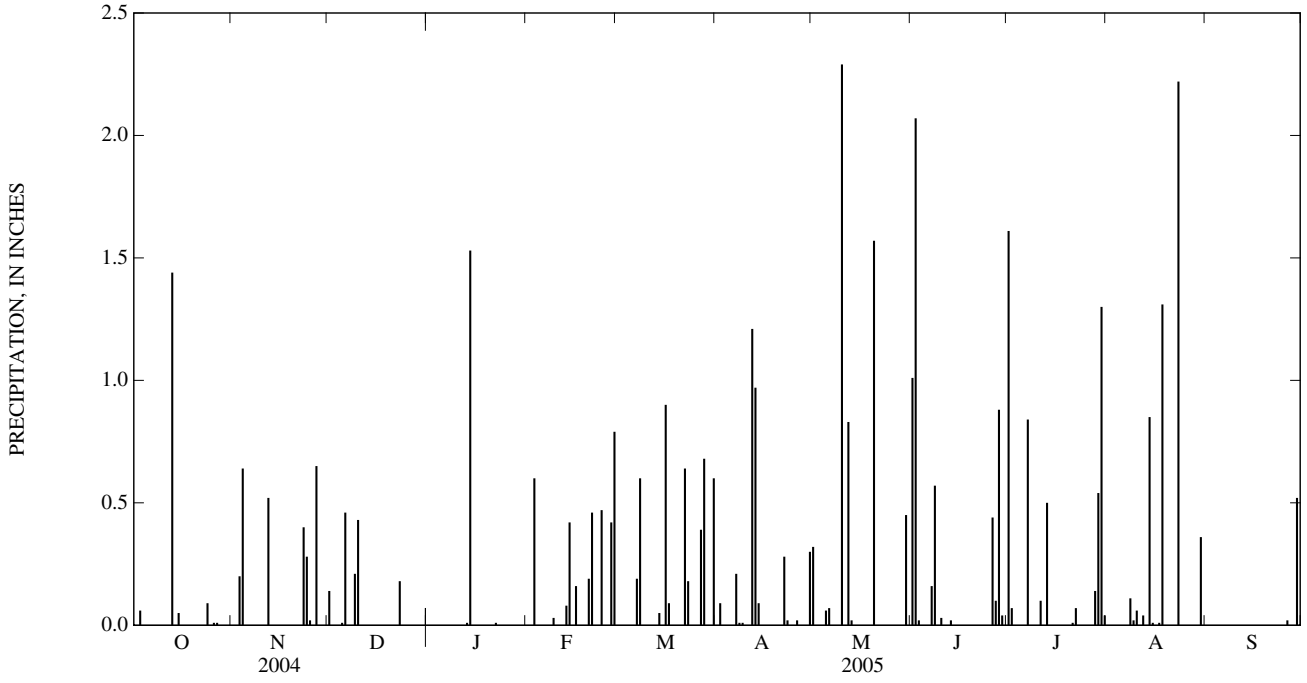
PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2006 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.32	1.01	1.61	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	2.07	0.07	0.00	0.00
3	0.06	0.20	0.00	0.00	0.60	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.19	0.21	0.00	0.16	0.84	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.60	0.01	0.00	0.57	0.00	0.11	0.00
9	0.00	0.00	0.21	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.02	0.00
10	0.00	0.00	0.43	0.00	0.00	0.00	0.00	2.29	0.03	0.00	0.06	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	1.21	0.83	0.00	0.00	0.04	0.00
13	1.44	0.00	0.00	0.01	0.08	0.00	0.97	0.02	0.02	0.50	0.00	0.00
14	0.00	0.00	0.00	1.53	0.42	0.05	0.09	0.00	0.00	0.00	0.85	0.00
15	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.16	0.90	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.01	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.19	0.00	0.00	1.57	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.01	0.00	0.00
22	0.00	0.00	0.00	0.01	0.00	0.64	0.28	0.00	0.00	0.07	0.00	0.00
23	0.00	0.40	0.18	0.00	0.00	0.18	0.02	0.00	0.00	0.00	2.22	0.00
24	0.09	0.28	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.44	0.00	0.00	0.02
27	0.01	0.65	0.00	0.00	0.42	0.39	0.00	0.00	0.10	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.79	0.68	0.00	0.00	0.88	0.14	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.04	0.54	0.00	0.52
30	0.00	0.00	0.00	---	---	0.00	0.30	0.45	0.00	1.30	0.36	0.00
31	0.00	---	0.00	0.00	---	0.60	---	0.00	---	0.04	0.00	---
TOTAL	1.66	2.71	1.43	---	3.62	4.32	3.21	5.61	5.34	5.22	4.99	0.54



352224080500345 CRN49

LOCATION.--Lat 35°22'24", long 80°50'03", Mecklenburg County, Hydrologic Unit 03050101, North Mecklenburg High School, Old Statesville Rd., Huntersville, NC.

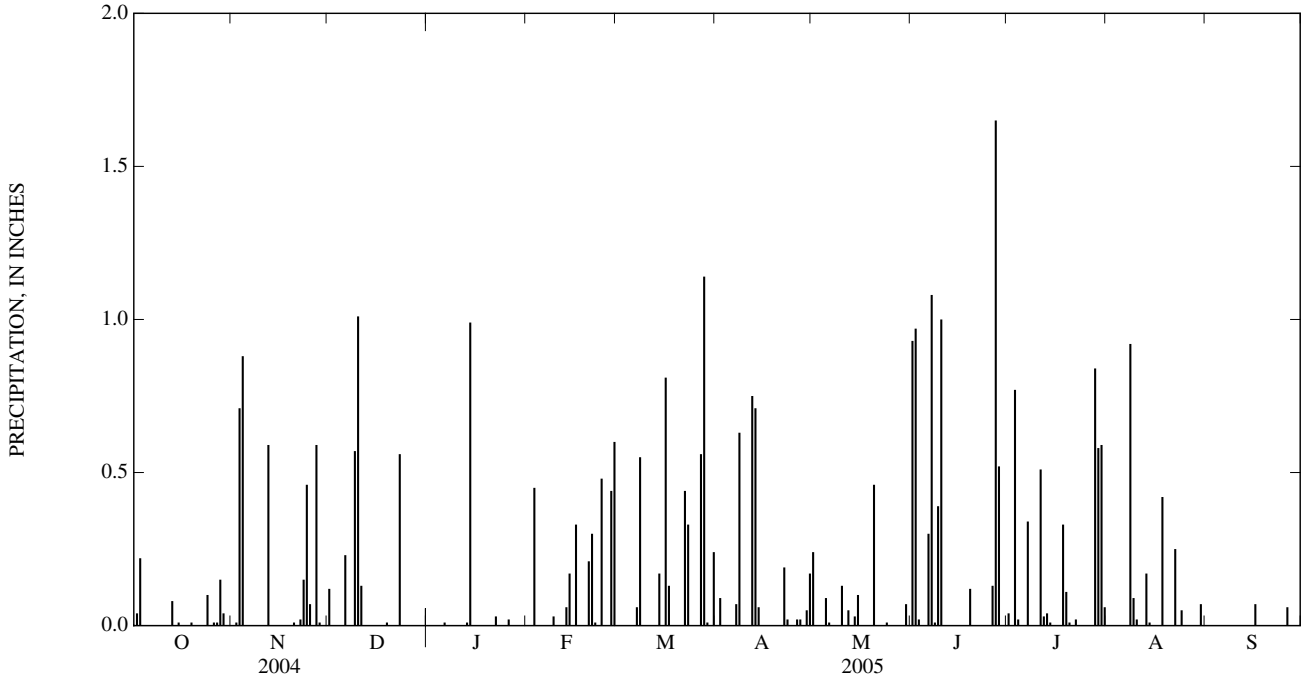
PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.24	0.93	0.04	0.00	0.00
2	0.04	0.01	0.00	0.00	0.00	0.00	0.09	0.00	0.97	0.00	0.00	0.00
3	0.22	0.71	0.00	0.00	0.45	0.00	0.00	0.00	0.02	0.77	0.00	0.00
4	0.00	0.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	0.23	0.01	0.00	0.00	0.00	0.01	0.30	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.06	0.07	0.00	1.08	0.34	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.55	0.63	0.00	0.01	0.00	0.92	0.00
9	0.00	0.00	0.57	0.00	0.03	0.00	0.00	0.00	0.39	0.00	0.09	0.00
10	0.00	0.00	1.01	0.00	0.00	0.00	0.00	0.13	1.00	0.00	0.02	0.00
11	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00
12	0.00	0.59	0.00	0.00	0.00	0.00	0.75	0.05	0.00	0.03	0.00	0.00
13	0.08	0.00	0.00	0.01	0.06	0.00	0.71	0.00	0.00	0.04	0.17	0.00
14	0.00	0.00	0.00	0.99	0.17	0.17	0.06	0.03	0.00	0.01	0.01	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.33	0.81	0.00	0.00	0.00	0.00	0.00	0.07
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.42	0.00
19	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.12	0.11	0.00	0.00
20	0.00	0.01	0.00	0.00	0.21	0.00	0.00	0.46	0.00	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.03	0.01	0.44	0.19	0.00	0.00	0.02	0.25	0.00
23	0.00	0.15	0.56	0.00	0.00	0.33	0.02	0.00	0.00	0.00	0.00	0.00
24	0.10	0.46	0.00	0.00	0.48	0.00	0.00	0.01	0.00	0.00	0.05	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.02	0.00	0.00	0.02	0.00	0.13	0.00	0.00	0.06
27	0.01	0.59	0.00	0.00	0.44	0.56	0.02	0.00	1.65	0.00	0.00	0.00
28	0.15	0.01	0.00	0.00	0.60	1.14	0.00	0.00	0.52	0.84	0.00	0.00
29	0.04	0.00	0.00	---	---	0.01	0.05	0.00	0.00	0.58	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.17	0.07	0.00	0.59	0.07	0.00
31	0.00	---	0.00	0.00	---	0.24	---	0.00	---	0.06	0.00	---
TOTAL	0.67	3.50	2.63	---	3.08	4.44	2.78	1.19	7.12	4.30	2.00	0.13



351502080512045 CRN50

LOCATION.--Lat 35°15'02", long 80°51'20", Mecklenburg County, Hydrologic Unit 03050103, Vest Treatment Plant, Charlotte, NC

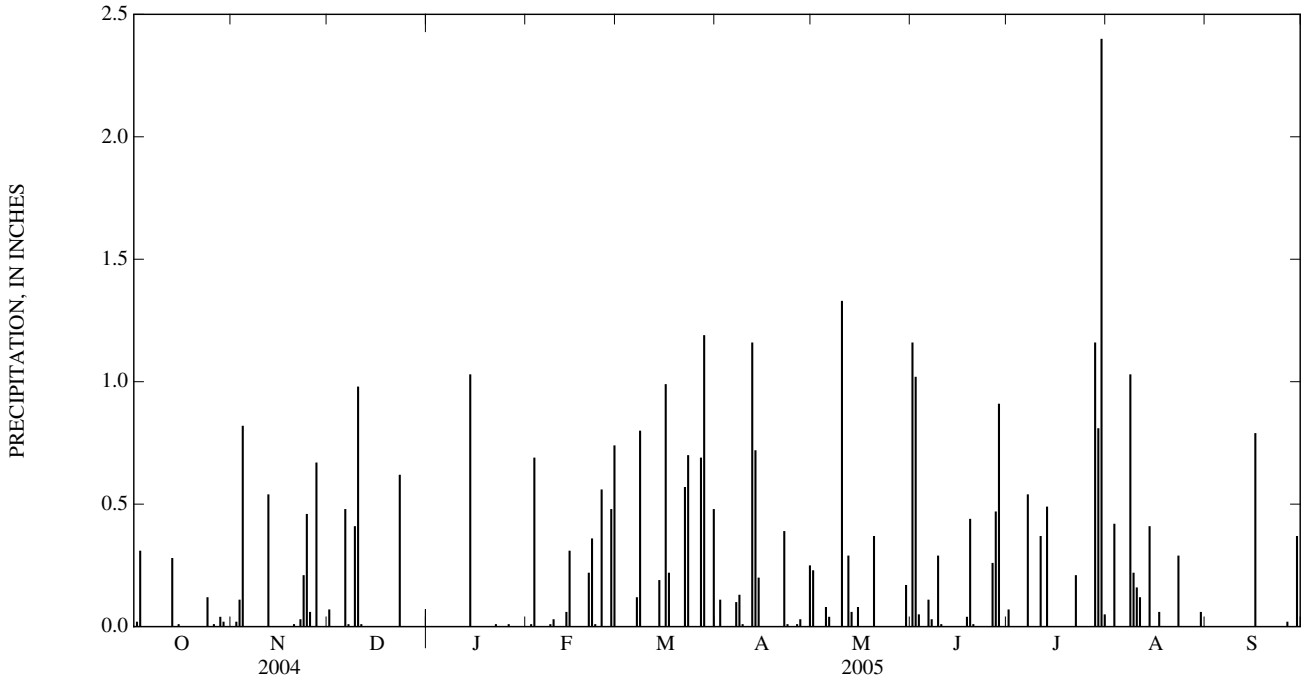
PERIOD OF RECORD.--October 2002 to September 2003. Records for July 1999 to June 2002 at site Oaklawn School of Math and Science (station 351503080510145).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.23	1.16	0.07	0.00	0.00
2	0.02	0.02	0.00	0.00	0.01	0.00	0.11	0.00	1.02	0.00	0.00	0.00
3	0.31	0.11	0.00	0.00	0.69	0.00	0.00	0.00	0.05	0.00	0.42	0.00
4	0.00	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.04	0.11	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.12	0.10	0.00	0.03	0.54	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.80	0.13	0.00	0.00	0.00	1.03	0.00
9	0.00	0.00	0.41	0.00	0.03	0.00	0.01	0.00	0.29	0.00	0.22	0.00
10	0.00	0.00	0.98	0.00	0.00	0.00	0.00	1.33	0.01	0.00	0.16	0.00
11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.12	0.00
12	0.00	0.54	0.00	0.00	0.00	0.00	1.16	0.29	0.00	0.00	0.00	0.00
13	0.28	0.00	0.00	0.00	0.06	0.00	0.72	0.06	0.00	0.49	0.00	0.00
14	0.00	0.00	0.00	1.03	0.31	0.19	0.20	0.00	0.00	0.00	0.41	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.99	0.00	0.00	0.00	0.00	0.00	0.79
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.06	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.22	0.00	0.00	0.37	0.01	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.01	0.01	0.57	0.39	0.00	0.00	0.21	0.00	0.00
23	0.00	0.21	0.62	0.00	0.00	0.70	0.01	0.00	0.00	0.00	0.29	0.00
24	0.12	0.46	0.00	0.00	0.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.26	0.00	0.00	0.02
27	0.00	0.67	0.00	0.00	0.48	0.69	0.03	0.00	0.47	0.00	0.00	0.00
28	0.04	0.00	0.00	0.00	0.74	1.19	0.00	0.00	0.91	1.16	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.81	0.00	0.37
30	0.00	0.00	0.00	---	---	0.00	0.25	0.17	0.00	2.40	0.06	0.00
31	0.00	---	0.00	0.00	---	0.48	---	0.00	---	0.05	0.00	---
TOTAL	0.81	2.93	2.58	---	3.48	5.95	3.12	2.65	4.80	6.10	2.77	1.18



352310080424845 CRN51

LOCATION.--Lat 35°23'00", long 80°42'54", Cabarrus County, Hydrologic Unit 03040105, Concord Regional Airport, Aviation Boulevard, Concord, NC.

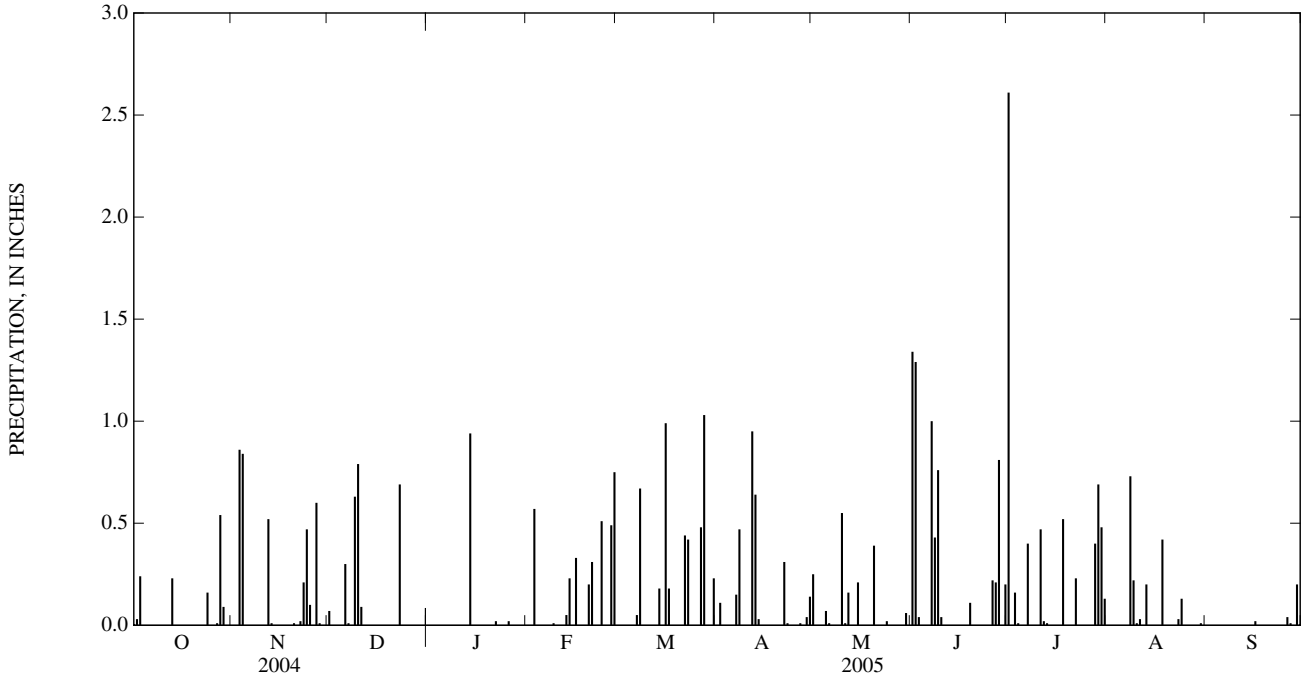
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.25	1.34	2.61	0.00	0.00
2	0.03	0.00	0.00	0.00	0.00	0.00	0.11	0.00	1.29	0.00	0.00	0.00
3	0.24	0.86	0.00	0.00	0.57	0.00	0.00	0.00	0.04	0.16	0.00	0.00
4	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00
6	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.05	0.15	0.00	1.00	0.40	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.67	0.47	0.00	0.43	0.00	0.73	0.00
9	0.00	0.00	0.63	0.00	0.01	0.00	0.00	0.00	0.76	0.00	0.22	0.00
10	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.55	0.04	0.00	0.01	0.00
11	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.01	0.00	0.47	0.03	0.00
12	0.00	0.52	0.00	0.00	0.00	0.00	0.95	0.16	0.00	0.02	0.00	0.00
13	0.23	0.01	0.00	0.00	0.05	0.00	0.64	0.00	0.00	0.01	0.20	0.00
14	0.00	0.00	0.00	0.94	0.23	0.18	0.03	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.33	0.99	0.00	0.00	0.00	0.00	0.00	0.02
17	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.52	0.42	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.20	0.00	0.00	0.39	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.00	0.02	0.00	0.44	0.31	0.00	0.00	0.23	0.00	0.00
23	0.00	0.21	0.69	0.00	0.00	0.42	0.01	0.00	0.00	0.00	0.03	0.00
24	0.16	0.47	0.00	0.00	0.51	0.00	0.00	0.02	0.00	0.00	0.13	0.00
25	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.04
27	0.01	0.60	0.00	0.00	0.49	0.48	0.01	0.00	0.21	0.00	0.00	0.01
28	0.54	0.01	0.00	0.00	0.75	1.03	0.00	0.00	0.81	0.40	0.00	0.00
29	0.09	0.00	0.00	---	---	0.00	0.04	0.00	0.00	0.69	0.00	0.20
30	0.00	0.00	0.00	---	---	0.00	0.14	0.06	0.20	0.48	0.01	0.00
31	0.00	---	0.00	0.00	---	0.23	---	0.00	---	0.13	0.00	---
TOTAL	1.30	3.65	2.58	---	3.45	4.67	2.86	1.73	6.45	6.13	1.78	0.27



351753081011745 CRN52

LOCATION.--Lat 35°17'53", long 81°01'13", Gaston County, Hydrologic Unit 03050101, Ida Rankin Elementary School, Central Avenue, Mt. Holly, NC.

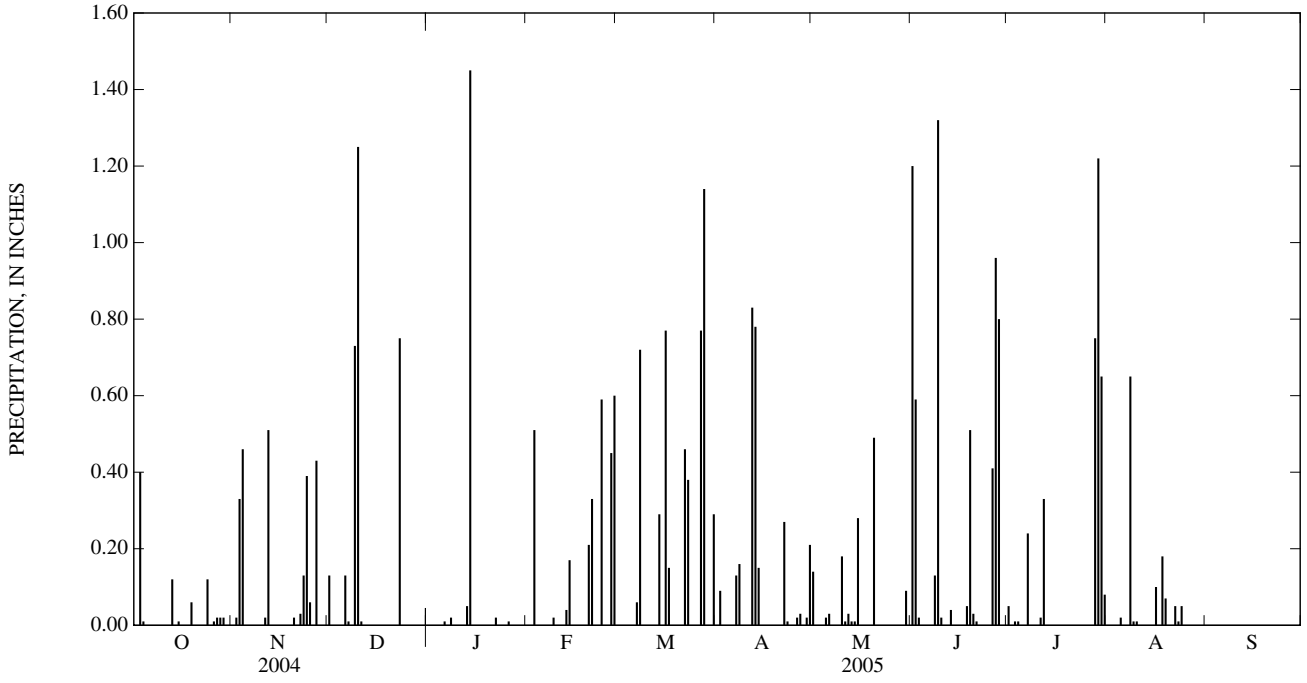
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.14	1.20	0.05	0.00	0.00
2	0.00	0.02	0.00	0.00	0.00	0.00	0.09	0.00	0.59	0.00	0.00	0.00
3	0.40	0.33	0.00	0.00	0.51	0.00	0.00	0.00	0.02	0.01	0.00	0.00
4	0.01	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.02	0.00
6	0.00	0.00	0.13	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.06	0.13	0.00	0.00	0.24	0.00	0.00
8	0.00	0.00	0.00	0.02	0.00	0.72	0.16	0.00	0.13	0.00	0.65	0.00
9	0.00	0.00	0.73	0.00	0.02	0.00	0.00	0.00	1.32	0.00	0.01	0.00
10	0.00	0.00	1.25	0.00	0.00	0.00	0.00	0.18	0.02	0.00	0.01	0.00
11	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	0.83	0.03	0.00	0.33	0.00	0.00
13	0.12	0.00	0.00	0.05	0.04	0.00	0.78	0.01	0.04	0.00	0.00	0.00
14	0.00	0.00	0.00	1.45	0.17	0.29	0.15	0.01	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.00	0.10	0.00
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.18	0.00
19	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.07	0.00
20	0.00	0.02	0.00	0.00	0.21	0.00	0.00	0.49	0.03	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.01	0.00	0.00	0.00
22	0.00	0.03	0.00	0.02	0.00	0.46	0.27	0.00	0.00	0.00	0.05	0.00
23	0.00	0.13	0.75	0.00	0.00	0.38	0.01	0.00	0.00	0.00	0.01	0.00
24	0.12	0.39	0.00	0.00	0.59	0.00	0.00	0.00	0.00	0.00	0.05	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.41	0.00	0.00	0.00
27	0.02	0.43	0.00	0.00	0.45	0.77	0.03	0.00	0.96	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.60	1.14	0.00	0.00	0.80	0.75	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.02	0.00	0.00	1.22	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.21	0.09	0.00	0.65	0.00	0.00
31	0.00	---	0.00	0.00	---	0.29	---	0.00	---	0.08	0.00	---
TOTAL	0.79	2.40	3.01	---	2.92	5.03	2.70	1.29	6.09	3.36	1.15	0.00



351412080541245 CRN53

LOCATION.--Lat 35°14'12", long 80°54'08", Mecklenburg County, Hydrologic Unit 03050103, Harding University High School, Alleghany Street, Charlotte, NC.

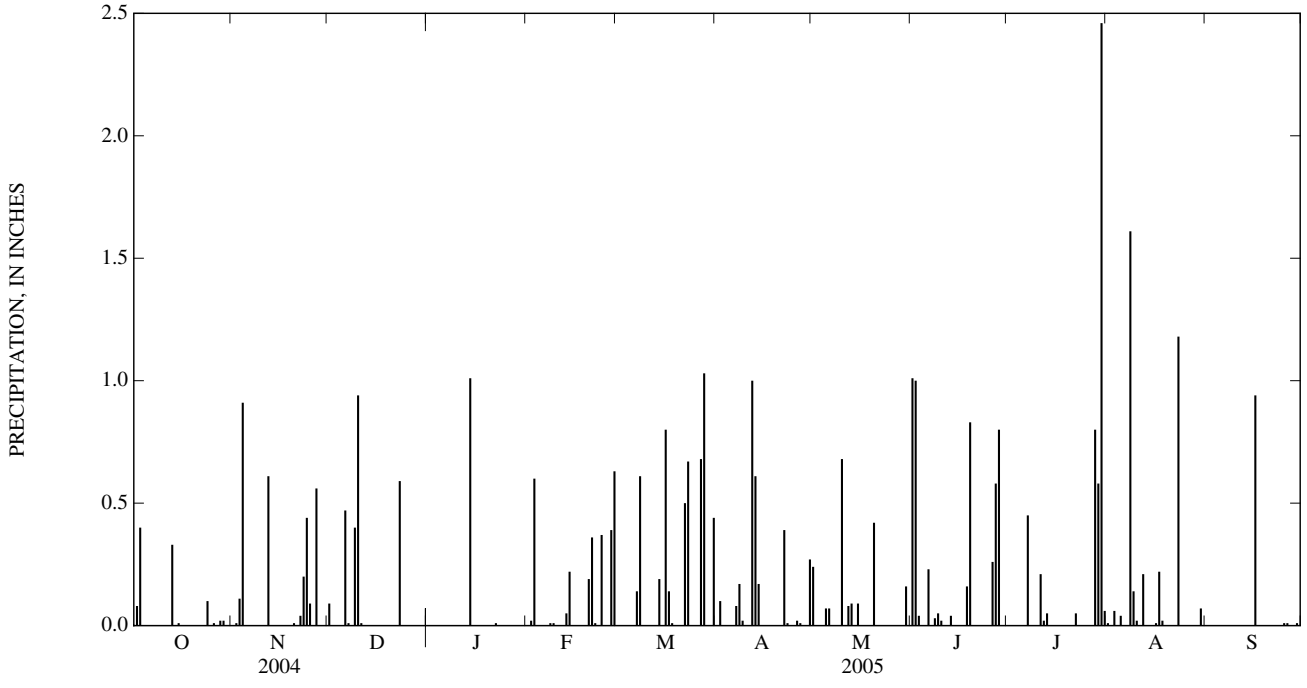
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.24	1.01	0.00	0.01	0.00
2	0.08	0.01	0.00	0.00	0.02	0.00	0.10	0.00	1.00	0.00	0.00	0.00
3	0.40	0.11	0.00	0.00	0.60	0.00	0.00	0.00	0.04	0.00	0.06	0.00
4	0.00	0.91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.04	0.00
6	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.07	0.23	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.14	0.08	0.00	0.00	0.45	0.00	0.00
8	0.00	0.00	0.00	0.00	0.01	0.61	0.17	0.00	0.03	0.00	1.61	0.00
9	0.00	0.00	0.40	0.00	0.01	0.00	0.02	0.00	0.05	0.00	0.14	0.00
10	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.68	0.02	0.00	0.02	0.00
11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00
12	0.00	0.61	0.00	0.00	0.00	0.00	1.00	0.08	0.00	0.02	0.21	0.00
13	0.33	0.00	0.00	0.00	0.05	0.00	0.61	0.09	0.04	0.05	0.00	0.00
14	0.00	0.00	0.00	1.01	0.22	0.19	0.17	0.00	0.00	0.00	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.00	0.00	0.01	0.94
17	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.22	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.16	0.00	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.19	0.00	0.00	0.42	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.01	0.01	0.50	0.39	0.00	0.00	0.05	0.00	0.00
23	0.00	0.20	0.59	0.00	0.00	0.67	0.01	0.00	0.00	0.00	1.18	0.00
24	0.10	0.44	0.00	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.26	0.00	0.00	0.01
27	0.00	0.56	0.00	0.00	0.39	0.68	0.01	0.00	0.58	0.00	0.00	0.00
28	0.02	0.00	0.00	0.00	0.63	1.03	0.00	0.00	0.80	0.80	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	0.58	0.00	0.01
30	0.00	0.00	0.00	---	---	0.00	0.27	0.16	0.00	2.46	0.07	0.00
31	0.00	---	0.00	0.00	---	0.44	---	0.00	---	0.06	0.00	---
TOTAL	0.97	2.98	2.51	---	2.86	5.21	2.85	1.90	5.05	4.68	3.59	0.97



351741080475045 CRN54

LOCATION.--Lat 35°17'43", long 80°47'46", Mecklenburg County, Hydrologic Unit 03040105, Derita Elementary School, West Sugar Creek Road, Charlotte, NC.

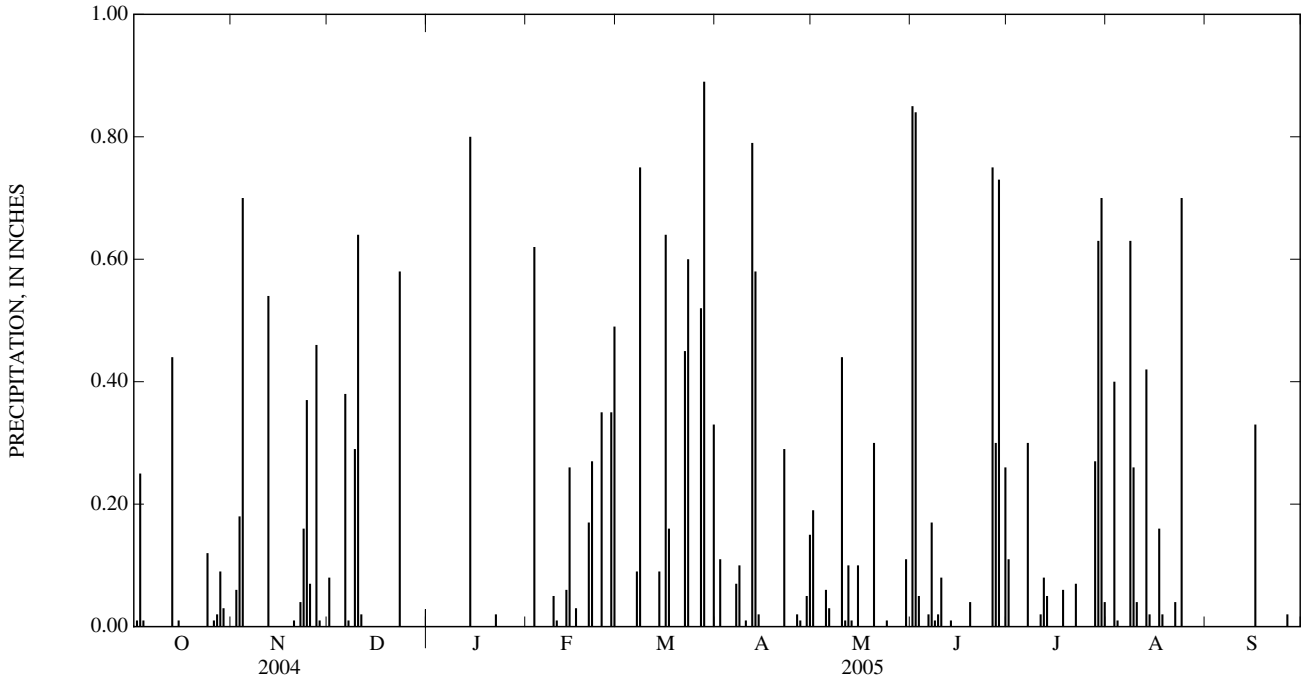
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.19	0.85	0.11	0.00	0.00
2	0.01	0.06	0.00	0.00	0.00	0.00	0.11	0.00	0.84	0.00	0.00	0.00
3	0.25	0.18	0.00	0.00	0.62	0.00	0.00	0.00	0.05	0.00	0.40	0.00
4	0.01	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00
6	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.03	0.02	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.09	0.07	0.00	0.17	0.30	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.75	0.10	0.00	0.01	0.00	0.63	0.00
9	0.00	0.00	0.29	0.00	0.05	0.00	0.00	0.00	0.02	0.00	0.26	0.00
10	0.00	0.00	0.64	0.00	0.01	0.00	0.01	0.44	0.08	0.00	0.04	0.00
11	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00
12	0.00	0.54	0.00	0.00	0.00	0.00	0.79	0.10	0.00	0.08	0.00	0.00
13	0.44	0.00	0.00	0.00	0.06	0.00	0.58	0.01	0.01	0.05	0.42	0.00
14	0.00	0.00	0.00	0.80	0.26	0.09	0.02	0.00	0.00	0.00	0.02	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.03	0.64	0.00	0.00	0.00	0.00	0.00	0.33
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.16	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.02	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.17	0.00	0.00	0.30	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.00	0.45	0.29	0.00	0.00	0.07	0.04	0.00
23	0.00	0.16	0.58	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00
24	0.12	0.37	0.00	0.00	0.35	0.00	0.00	0.01	0.00	0.00	0.70	0.00
25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.75	0.00	0.00	0.02
27	0.02	0.46	0.00	0.00	0.35	0.52	0.01	0.00	0.30	0.00	0.00	0.00
28	0.09	0.01	0.00	0.00	0.49	0.89	0.00	0.00	0.73	0.27	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.05	0.00	0.00	0.63	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.15	0.11	0.26	0.70	0.00	0.00
31	0.00	---	0.00	0.00	---	0.33	---	0.00	---	0.04	0.00	---
TOTAL	0.99	2.60	2.00	---	2.66	4.52	2.20	1.36	4.13	2.33	2.70	0.35



350324080551845 CRN55

LOCATION.--Lat 35°03'26", long 80°55'15", York County, South Carolina, Hydrologic Unit 03050103, private residence, Hammond Road, Fort Mill, SC.

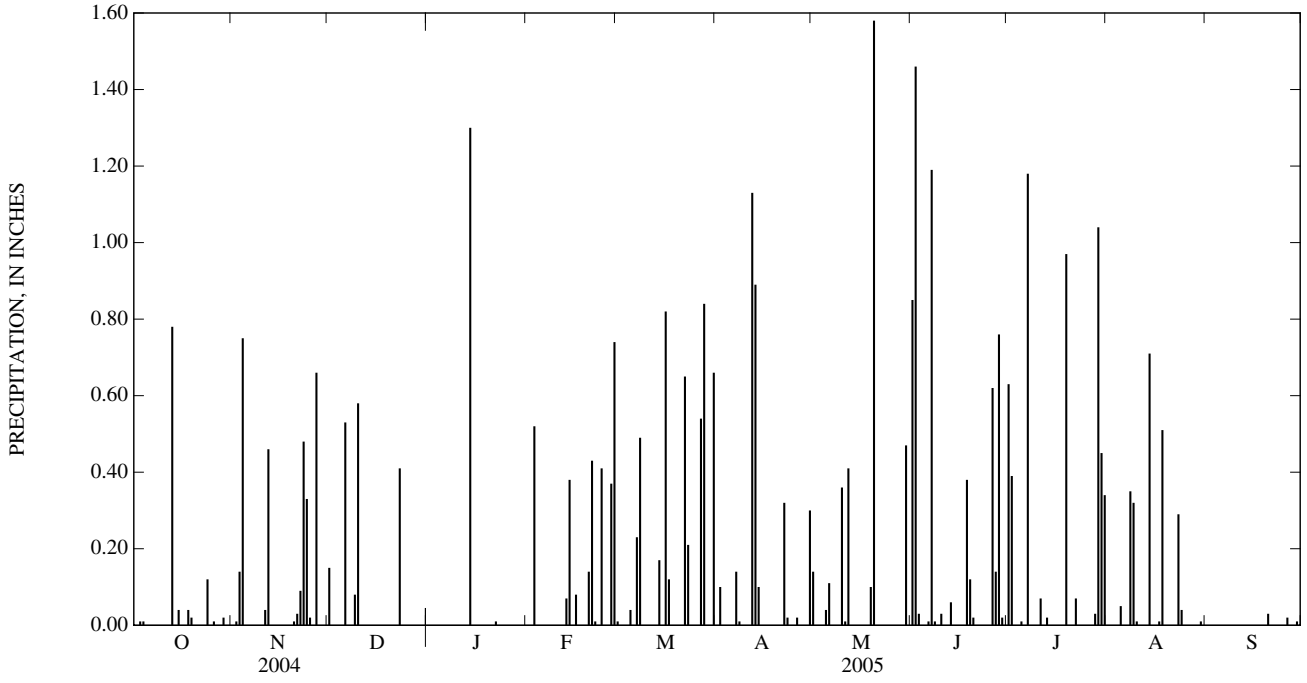
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.15	0.00	0.00	0.01	0.00	0.14	0.85	0.63	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.00	0.10	0.00	1.46	0.39	0.00	0.00
3	0.01	0.14	0.00	0.00	0.52	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.01	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.04	0.00	0.01	0.05	0.00
6	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.11	0.01	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.23	0.14	0.00	1.19	1.18	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.49	0.01	0.00	0.01	0.00	0.35	0.00
9	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00
10	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.36	0.03	0.00	0.01	0.00
11	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00
12	0.00	0.46	0.00	0.00	0.00	0.00	1.13	0.41	0.00	0.00	0.00	0.00
13	0.78	0.00	0.00	0.00	0.07	0.00	0.89	0.00	0.06	0.02	0.00	0.00
14	0.00	0.00	0.00	1.30	0.38	0.17	0.10	0.00	0.00	0.00	0.71	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.08	0.82	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.01	0.00
18	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.00	0.51	0.00
19	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.12	0.97	0.00	0.00
20	0.00	0.01	0.00	0.00	0.14	0.00	0.00	1.58	0.02	0.00	0.00	0.03
21	0.00	0.03	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.09	0.00	0.01	0.01	0.65	0.32	0.00	0.00	0.07	0.00	0.00
23	0.00	0.48	0.41	0.00	0.00	0.21	0.02	0.00	0.00	0.00	0.29	0.00
24	0.12	0.33	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.04	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.62	0.00	0.00	0.02
27	0.00	0.66	0.00	0.00	0.37	0.54	0.00	0.00	0.14	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.74	0.84	0.00	0.00	0.76	0.03	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.02	1.04	0.00	0.01
30	0.00	0.00	0.00	---	---	0.00	0.30	0.47	0.00	0.45	0.01	0.00
31	0.00	---	0.00	0.00	---	0.66	---	0.00	---	0.34	0.00	---
TOTAL	1.05	3.02	1.75	---	3.15	4.78	3.03	3.22	5.70	5.20	2.30	0.06



350635080513245 CRN56

LOCATION.--Lat 35°06'35", long 80°51'32", Mecklenburg County, Hydrologic Unit 03050103, South Mecklenburg High School, Park Road, Charlotte, NC.

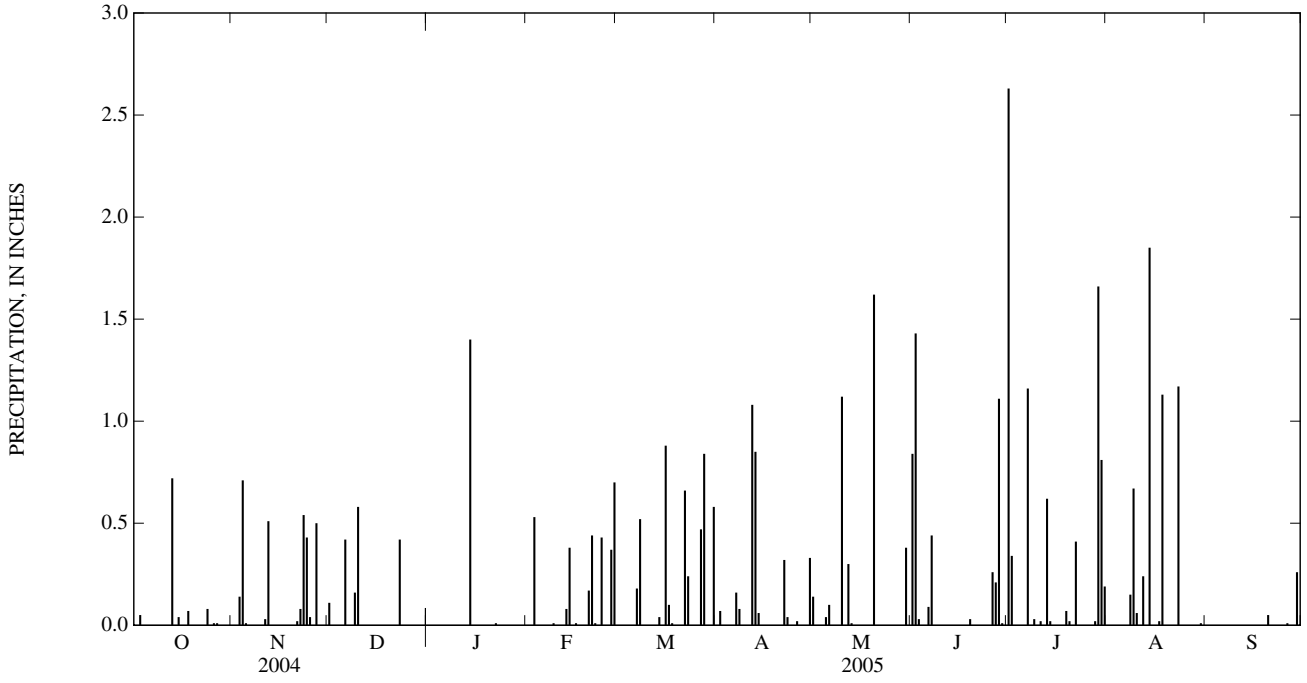
PERIOD OF RECORD.--May 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.14	0.84	2.63	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	1.43	0.34	0.00	0.00
3	0.05	0.14	0.00	0.00	0.53	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
6	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.10	0.09	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.18	0.16	0.00	0.44	1.16	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.52	0.08	0.00	0.00	0.00	0.15	0.00
9	0.00	0.00	0.16	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.67	0.00
10	0.00	0.00	0.58	0.00	0.00	0.00	0.00	1.12	0.00	0.00	0.06	0.00
11	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	1.08	0.30	0.00	0.00	0.24	0.00
13	0.72	0.00	0.00	0.00	0.08	0.00	0.85	0.01	0.00	0.62	0.00	0.00
14	0.00	0.00	0.00	1.40	0.38	0.04	0.06	0.00	0.00	0.02	1.85	0.00
15	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.88	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.02	0.00
18	0.07	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	1.13	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.00
20	0.00	0.00	0.00	0.00	0.17	0.00	0.00	1.62	0.00	0.02	0.00	0.05
21	0.00	0.02	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.08	0.00	0.01	0.01	0.66	0.32	0.00	0.00	0.41	0.00	0.00
23	0.00	0.54	0.42	0.00	0.00	0.24	0.04	0.00	0.00	0.00	1.17	0.00
24	0.08	0.43	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.26	0.00	0.00	0.01
27	0.01	0.50	0.00	0.00	0.37	0.47	0.00	0.00	0.21	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.70	0.84	0.00	0.00	1.11	0.02	0.00	0.00
29	0.00	0.00	0.00	---	---	0.00	0.00	0.00	0.01	1.66	0.00	0.26
30	0.00	0.00	0.00	---	---	0.00	0.33	0.38	0.00	0.81	0.01	0.00
31	0.00	---	0.00	0.00	---	0.58	---	0.00	---	0.19	0.00	---
TOTAL	0.98	3.01	1.69	---	3.13	4.52	3.01	3.71	4.45	8.00	5.30	0.32



351109080412145 CRN57

LOCATION.--Lat 35°11'03", long 80°41'22", Mecklenburg County, Hydrologic Unit 03050103, Lebanon Road Elementary School, Lebanon Road, Charlotte, NC.

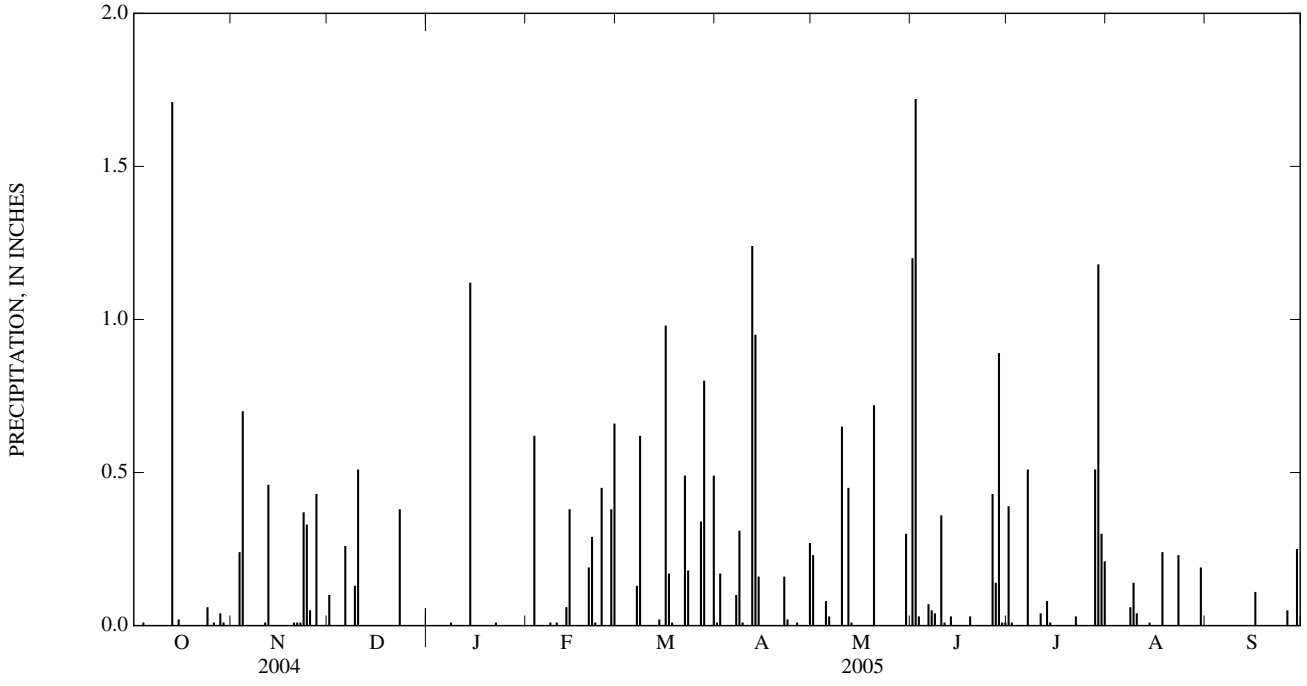
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.23	1.20	0.39	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	1.72	0.01	0.00	0.00
3	0.00	0.24	0.00	0.00	0.62	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.01	0.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.03	0.07	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.13	0.10	0.00	0.05	0.51	0.00	0.00
8	0.00	0.00	0.00	0.01	0.01	0.62	0.31	0.00	0.04	0.00	0.06	0.00
9	0.00	0.00	0.13	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.14	0.00
10	0.00	0.00	0.51	0.00	0.01	0.00	0.00	0.65	0.36	0.00	0.04	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.00	0.00
12	0.00	0.46	0.00	0.00	0.00	0.00	1.24	0.45	0.00	0.00	0.00	0.00
13	1.71	0.00	0.00	0.00	0.06	0.00	0.95	0.01	0.03	0.08	0.00	0.00
14	0.00	0.00	0.00	1.12	0.38	0.02	0.16	0.00	0.00	0.01	0.01	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.98	0.00	0.00	0.00	0.00	0.00	0.11
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.24	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.19	0.00	0.00	0.72	0.00	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.01	0.00	0.01	0.01	0.49	0.16	0.00	0.00	0.03	0.00	0.00
23	0.00	0.37	0.38	0.00	0.00	0.18	0.02	0.00	0.00	0.00	0.23	0.00
24	0.06	0.33	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.43	0.00	0.00	0.05
27	0.00	0.43	0.00	0.00	0.38	0.34	0.00	0.00	0.14	0.00	0.00	0.00
28	0.04	0.00	0.00	0.00	0.66	0.80	0.00	0.00	0.89	0.51	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.01	1.18	0.00	0.25
30	0.00	0.00	0.00	---	---	0.00	0.27	0.30	0.01	0.30	0.19	0.00
31	0.00	---	0.00	0.00	---	0.49	---	0.00	---	0.21	0.00	---
TOTAL	1.86	2.62	1.38	---	3.06	4.23	3.41	2.47	5.02	3.27	0.91	0.41



352006080462845 CRN58

LOCATION.--Lat 35°20'06", long 80°46'28", Mecklenburg County, North Carolina, Hydrologic Unit 03050103, Mallard Creek Elementary School, Charlotte, NC.

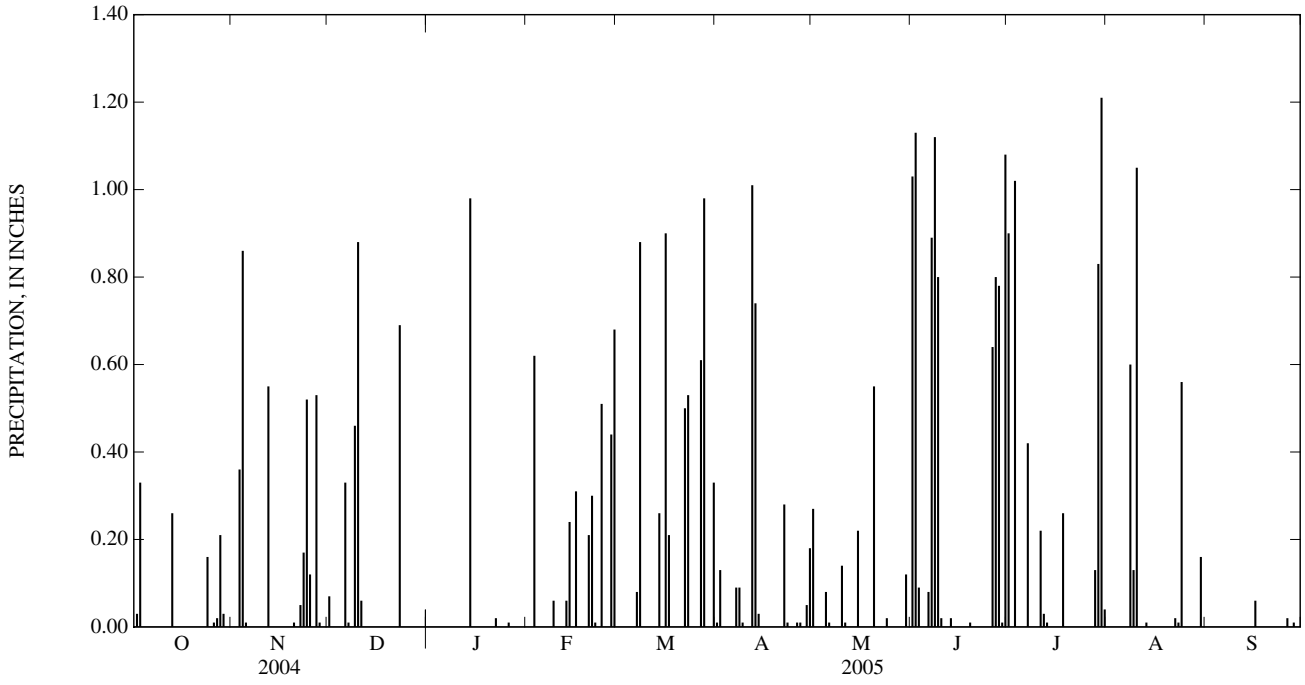
PERIOD OF RECORD.--October 2002 to September 2003. Records for June 2000 to June 2001 at site Highland Elementary School, Charlotte, NC (station 351441080481545).

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.27	1.03	0.90	0.00	0.00
2	0.03	0.00	0.00	0.00	0.00	0.00	0.13	0.00	1.13	0.00	0.00	0.00
3	0.33	0.36	0.00	0.00	0.62	0.00	0.00	0.00	0.09	1.02	0.00	0.00
4	0.00	0.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00
6	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.01	0.08	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.08	0.09	0.00	0.89	0.42	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.88	0.09	0.00	1.12	0.00	0.60	0.00
9	0.00	0.00	0.46	0.00	0.06	0.00	0.01	0.00	0.80	0.00	0.13	0.00
10	0.00	0.00	0.88	0.00	0.00	0.00	0.00	0.14	0.02	0.00	1.05	0.00
11	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.00
12	0.00	0.55	0.00	0.00	0.00	0.00	1.01	0.00	0.00	0.03	0.00	0.00
13	0.26	0.00	0.00	0.00	0.06	0.00	0.74	0.00	0.02	0.01	0.01	0.00
14	0.00	0.00	0.00	0.98	0.24	0.26	0.03	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.31	0.90	0.00	0.00	0.00	0.00	0.00	0.06
17	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.21	0.00	0.00	0.55	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.05	0.00	0.02	0.01	0.50	0.28	0.00	0.00	0.00	0.02	0.00
23	0.00	0.17	0.69	0.00	0.00	0.53	0.01	0.00	0.00	0.00	0.01	0.00
24	0.16	0.52	0.00	0.00	0.51	0.00	0.00	0.02	0.00	0.00	0.56	0.00
25	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.64	0.00	0.00	0.02
27	0.02	0.53	0.00	0.00	0.44	0.61	0.01	0.00	0.80	0.00	0.00	0.00
28	0.21	0.01	0.00	0.00	0.68	0.98	0.00	0.00	0.78	0.13	0.00	0.01
29	0.03	0.00	0.00	---	---	0.00	0.05	0.00	0.01	0.83	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.18	0.12	1.08	1.21	0.16	0.00
31	0.00	---	0.00	0.00	---	0.33	---	0.00	---	0.04	0.00	---
TOTAL	1.05	3.19	2.50	---	3.44	5.28	2.65	1.42	8.50	5.07	2.54	0.09



350624081023345 CRN59

LOCATION.--Lat 35°06'24", long 81°02'33", York County, South Carolina, Hydrologic Unit 03050101, YMCA Camp Thunderbird, Thunderbird Lane, Lake Wylie, SC.

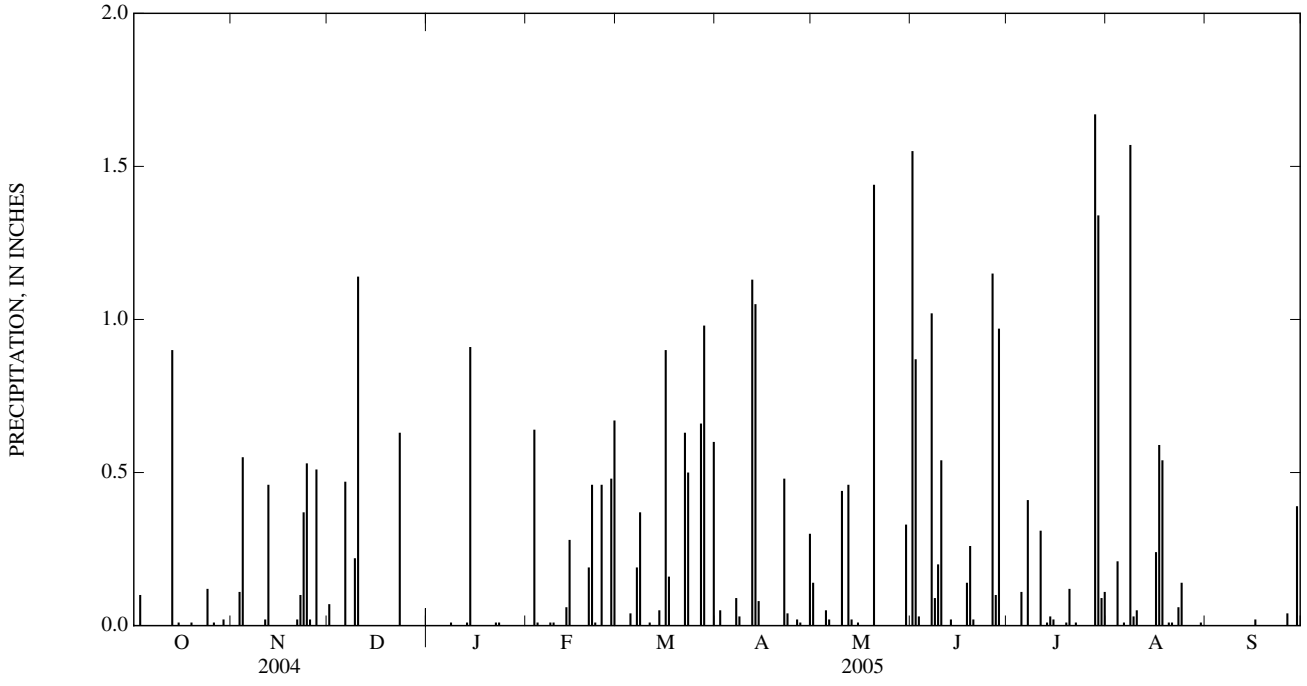
PERIOD OF RECORD.--June 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.14	1.55	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.87	0.00	0.00	0.00
3	0.10	0.11	0.00	0.00	0.64	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.55	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.21	0.00
5	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.05	0.00	0.11	0.00	0.00
6	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.00
7	0.00	0.00	0.00	0.00	0.00	0.19	0.09	0.00	1.02	0.41	0.00	0.00
8	0.00	0.00	0.00	0.01	0.01	0.37	0.03	0.00	0.09	0.00	1.57	0.00
9	0.00	0.00	0.22	0.00	0.01	0.00	0.00	0.00	0.20	0.00	0.03	0.00
10	0.00	0.00	1.14	0.00	0.00	0.00	0.00	0.44	0.54	0.00	0.05	0.00
11	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.31	0.00	0.00
12	0.00	0.46	0.00	0.00	0.00	0.00	1.13	0.46	0.00	0.00	0.00	0.00
13	0.90	0.00	0.00	0.01	0.06	0.00	1.05	0.02	0.02	0.01	0.00	0.00
14	0.00	0.00	0.00	0.91	0.28	0.05	0.08	0.00	0.00	0.03	0.00	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.24	0.02
17	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.59	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.54	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.01	0.00	0.00
20	0.00	0.00	0.00	0.00	0.19	0.00	0.00	1.44	0.02	0.12	0.01	0.00
21	0.00	0.02	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.01	0.00
22	0.00	0.10	0.00	0.01	0.01	0.63	0.48	0.00	0.00	0.01	0.00	0.00
23	0.00	0.37	0.63	0.01	0.00	0.50	0.04	0.00	0.00	0.00	0.06	0.00
24	0.12	0.53	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.14	0.00
25	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	1.15	0.00	0.00	0.04
27	0.00	0.51	0.00	0.00	0.48	0.66	0.01	0.00	0.10	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.67	0.98	0.00	0.00	0.97	1.67	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.34	0.00	0.39
30	0.00	0.00	0.00	---	---	0.00	0.30	0.33	0.00	0.09	0.01	0.00
31	0.00	---	0.00	0.00	---	0.60	---	0.00	---	0.11	0.00	---
TOTAL	1.17	2.69	2.53	---	3.28	5.09	3.28	2.91	6.96	4.24	3.47	0.45



351104080521845 CRN60

LOCATION.--Lat 35°11'05", long 80°52'18", Mecklenburg County, Hydrologic Unit 03050103, Collinswood Elementary School, Applegate Road, Charlotte, NC.

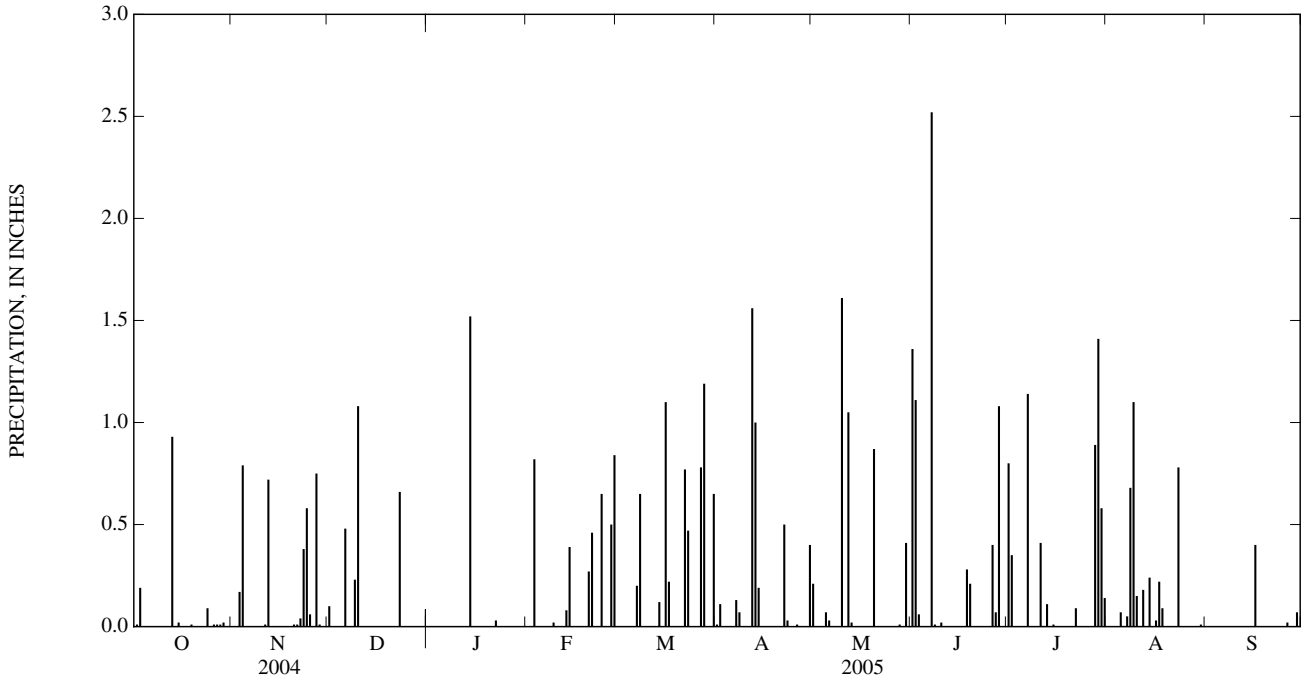
PERIOD OF RECORD.--April 2000 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.21	1.36	0.80	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.00	1.11	0.35	0.00	0.00
3	0.19	0.17	0.00	0.00	0.82	0.00	0.00	0.00	0.06	0.00	0.00	0.00
4	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.07	0.00
6	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.20	0.13	0.00	2.52	1.14	0.05	0.00
8	0.00	0.00	0.00	0.00	0.00	0.65	0.07	0.00	0.01	0.00	0.68	0.00
9	0.00	0.00	0.23	0.00	0.02	0.00	0.00	0.00	0.00	0.00	1.10	0.00
10	0.00	0.00	1.08	0.00	0.00	0.00	0.00	1.61	0.02	0.00	0.15	0.00
11	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
12	0.00	0.72	0.00	0.00	0.00	0.00	1.56	1.05	0.00	0.00	0.18	0.00
13	0.93	0.00	0.00	0.00	0.08	0.00	1.00	0.02	0.00	0.11	0.00	0.00
14	0.00	0.00	0.00	1.52	0.39	0.12	0.19	0.00	0.00	0.00	0.24	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	1.10	0.00	0.00	0.00	0.00	0.03	0.40
17	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.22	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.09	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.27	0.00	0.00	0.87	0.00	0.00	0.00	0.00
21	0.00	0.01	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.03	0.00	0.77	0.50	0.00	0.00	0.09	0.00	0.00
23	0.00	0.38	0.66	0.00	0.00	0.47	0.03	0.00	0.00	0.00	0.78	0.00
24	0.09	0.58	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.40	0.00	0.00	0.02
27	0.01	0.75	0.00	0.00	0.50	0.78	0.00	0.00	0.07	0.00	0.00	0.00
28	0.01	0.01	0.00	0.00	0.84	1.19	0.00	0.01	1.08	0.89	0.00	0.00
29	0.02	0.00	0.00	---	---	0.00	0.00	0.00	0.00	1.41	0.00	0.07
30	0.00	0.00	0.00	---	---	0.00	0.40	0.41	0.00	0.58	0.01	0.00
31	0.00	---	0.00	0.00	---	0.65	---	0.00	---	0.14	0.00	---
TOTAL	1.30	3.53	2.55	---	4.03	6.15	4.01	4.28	7.12	5.93	3.60	0.49



351816080564345 CRN61

LOCATION.--Lat 35°18'17", long 80°56'24", Mecklenburg County, Hydrologic Unit 03050101, Coulwood Middle School, 500 Kentberry Drive, Charlotte, NC.

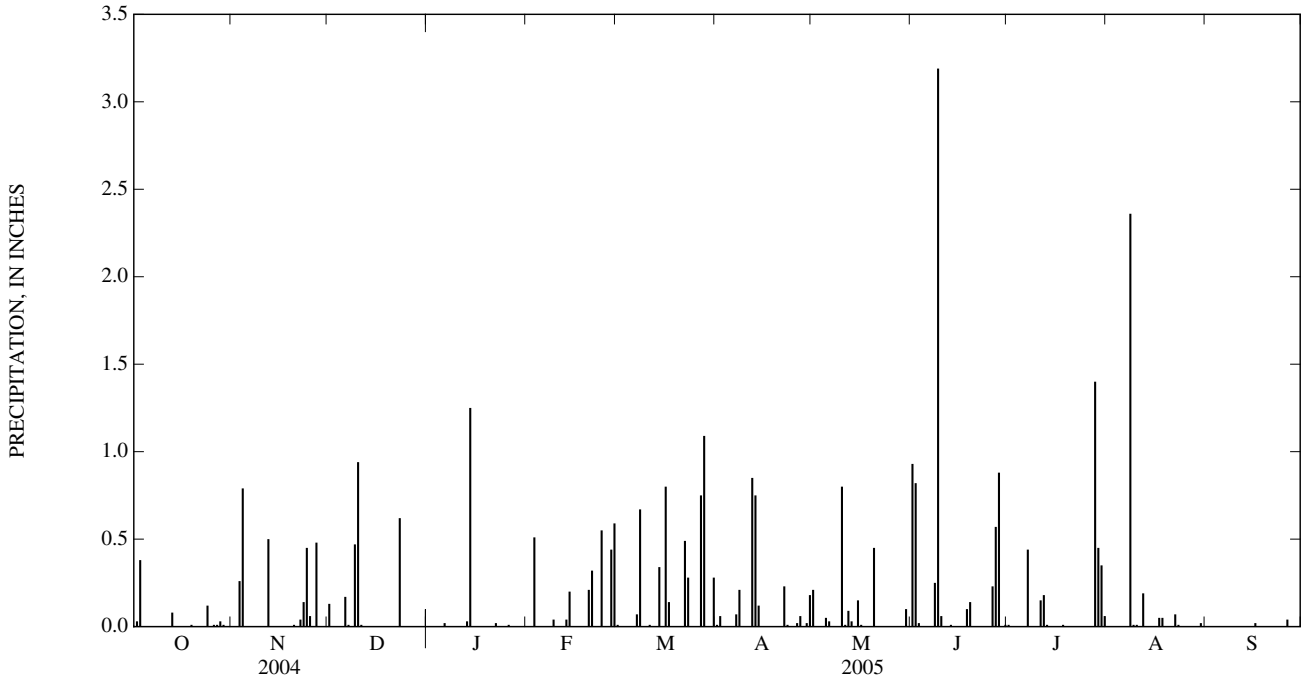
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.13	0.00	0.00	0.01	0.01	0.21	0.93	0.01	0.00	0.00
2	0.03	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.82	0.00	0.00	0.00
3	0.38	0.26	0.00	0.00	0.51	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.17	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00
7	0.00	0.00	0.01	0.00	0.00	0.07	0.07	0.00	0.00	0.44	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.67	0.21	0.00	0.25	0.00	2.36	0.00
9	0.00	0.00	0.47	0.00	0.04	0.00	0.00	0.00	3.19	0.00	0.01	0.00
10	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.80	0.06	0.00	0.01	0.00
11	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.00	0.15	0.00	0.00
12	0.00	0.50	0.00	0.00	0.00	0.00	0.85	0.09	0.00	0.18	0.19	0.00
13	0.08	0.00	0.00	0.03	0.04	0.00	0.75	0.03	0.01	0.01	0.00	0.00
14	0.00	0.00	0.00	1.25	0.20	0.34	0.12	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.01	0.00	0.00	0.00	0.02
17	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.05	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.01	0.05	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00
20	0.00	0.01	0.00	0.00	0.21	0.00	0.00	0.45	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.00	0.49	0.23	0.00	0.00	0.00	0.07	0.00
23	0.00	0.14	0.62	0.00	0.00	0.28	0.01	0.00	0.00	0.00	0.01	0.00
24	0.12	0.45	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.23	0.00	0.00	0.04
27	0.01	0.48	0.00	0.00	0.44	0.75	0.06	0.00	0.57	0.00	0.00	0.00
28	0.03	0.00	0.00	0.00	0.59	1.09	0.00	0.00	0.88	1.40	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.02	0.00	0.00	0.45	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.18	0.10	0.01	0.35	0.02	0.00
31	0.00	---	0.00	---	---	0.28	---	0.00	---	0.06	0.00	---
TOTAL	0.68	2.73	2.35	---	2.90	4.93	2.59	1.93	7.21	3.06	2.77	0.06



352523080535545 CRN62

LOCATION.--Lat 35°25'23", long 80°53'55", Mecklenburg County, Hydrologic Unit 03050101, Cooke Farm, Ervin Cooke Road, Charlotte, NC.

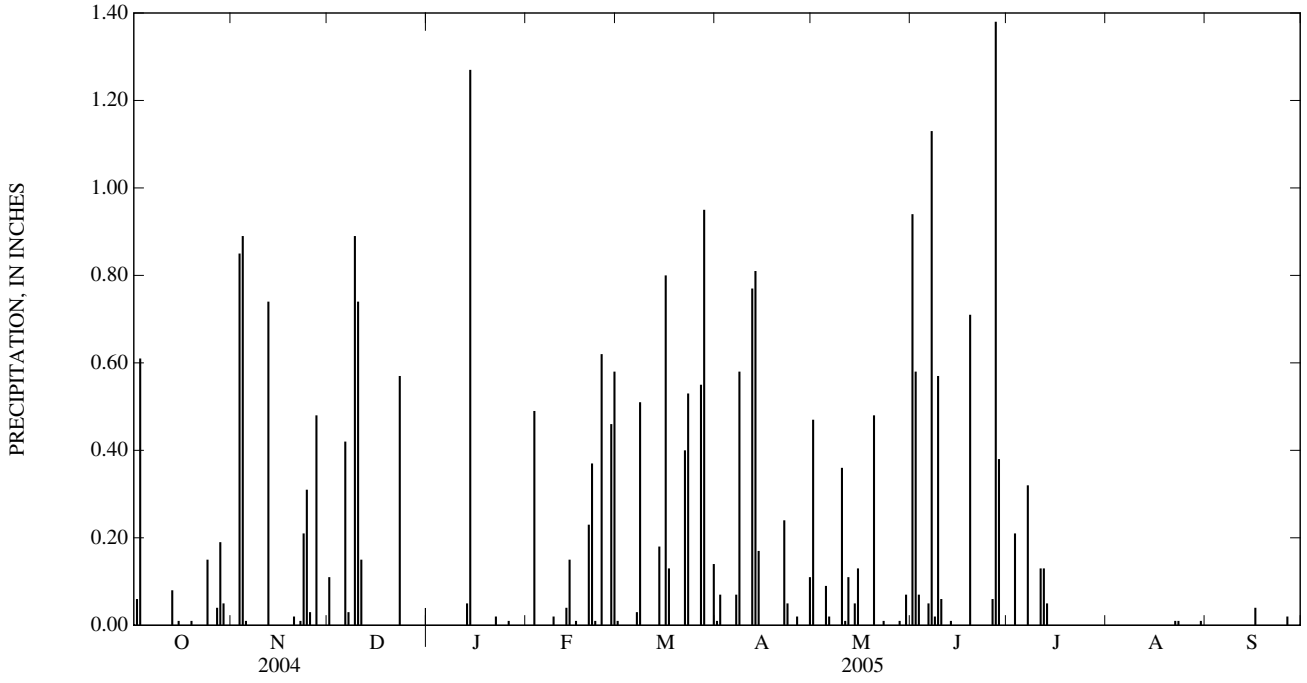
PERIOD OF RECORD.--November 2002 to September 2003.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.11	0.00	0.00	0.01	0.01	0.47	0.94	0.00	---	0.00
2	0.06	0.00	0.00	0.00	0.00	0.00	0.07	0.00	0.58	0.00	---	0.00
3	0.61	0.85	0.00	0.00	0.49	0.00	0.00	0.00	0.07	0.21	---	0.00
4	0.00	0.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
5	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	---	0.00
6	0.00	0.00	0.42	0.00	0.00	0.00	0.00	0.02	0.05	0.00	---	0.00
7	0.00	0.00	0.03	0.00	0.00	0.03	0.07	0.00	1.13	0.32	---	0.00
8	0.00	0.00	0.00	0.00	0.00	0.51	0.58	0.00	0.02	0.00	---	0.00
9	0.00	0.00	0.89	0.00	0.02	0.00	0.00	0.00	0.57	0.00	---	0.00
10	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.36	0.06	0.00	---	0.00
11	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.13	---	0.00
12	0.00	0.74	0.00	0.00	0.00	0.00	0.77	0.11	0.00	0.13	---	0.00
13	0.08	0.00	0.00	0.05	0.04	0.00	0.81	0.00	0.01	0.05	---	0.00
14	0.00	0.00	0.00	1.27	0.15	0.18	0.17	0.05	0.00	0.00	---	0.00
15	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	---	0.00
16	0.00	0.00	0.00	0.00	0.01	0.80	0.00	0.00	0.00	---	---	0.04
17	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	---	---	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	---	0.00	0.00
20	0.00	0.02	0.00	0.00	0.23	0.00	0.00	0.48	0.00	---	0.00	0.00
21	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.00	---	0.00	0.00
22	0.00	0.01	0.00	0.02	0.01	0.40	0.24	0.00	0.00	---	0.01	0.00
23	0.00	0.21	0.57	0.00	0.00	0.53	0.05	0.01	0.00	---	0.01	0.00
24	0.15	0.31	0.00	0.00	0.62	0.00	0.00	0.00	0.00	---	0.00	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
26	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.06	---	0.00	0.02
27	0.04	0.48	0.00	0.00	0.46	0.55	0.00	0.00	1.38	---	0.00	0.00
28	0.19	0.00	0.00	0.00	0.58	0.95	0.00	0.01	0.38	---	0.00	0.00
29	0.05	0.00	0.00	---	---	0.00	0.00	0.00	0.00	---	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.11	0.07	0.00	---	0.01	0.00
31	0.00	---	0.00	0.00	---	0.14	---	0.00	---	---	0.00	---
TOTAL	1.20	3.55	2.91	---	2.98	4.23	2.90	1.81	5.96	---	---	0.06



351928080515645 CRN64

LOCATION.--Lat 35°19'28", long 80°51'56", Mecklenburg County, Hydrologic Unit 03050101, Hornets Nest Elementary School, Beatties Ford Road, Charlotte, NC.

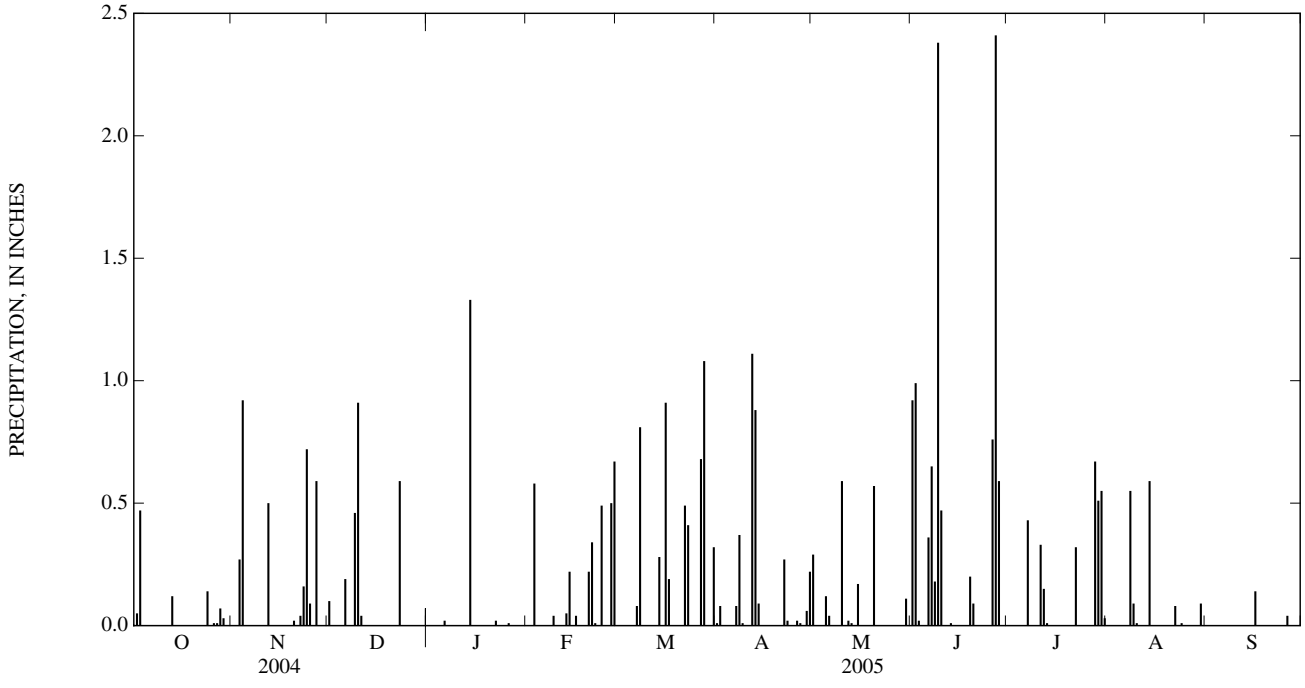
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.29	0.92	0.00	0.00	0.00
2	0.05	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.99	0.00	0.00	0.00
3	0.47	0.27	0.00	0.00	0.58	0.00	0.00	0.00	0.02	0.00	0.00	0.00
4	0.00	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00
6	0.00	0.00	0.19	0.02	0.00	0.00	0.00	0.04	0.36	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.65	0.43	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.81	0.37	0.00	0.18	0.00	0.55	0.00
9	0.00	0.00	0.46	0.00	0.04	0.00	0.01	0.00	2.38	0.00	0.09	0.00
10	0.00	0.00	0.91	0.00	0.00	0.00	0.00	0.59	0.47	0.00	0.01	0.00
11	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00
12	0.00	0.50	0.00	0.00	0.00	0.00	1.11	0.02	0.00	0.15	0.00	0.00
13	0.12	0.00	0.00	0.00	0.05	0.00	0.88	0.01	0.01	0.01	0.00	0.00
14	0.00	0.00	0.00	1.33	0.22	0.28	0.09	0.00	0.00	0.00	0.59	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.04	0.91	0.00	0.00	0.00	0.00	0.00	0.14
17	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.22	0.00	0.00	0.57	0.09	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.04	0.00	0.02	0.01	0.49	0.27	0.00	0.00	0.32	0.08	0.00
23	0.00	0.16	0.59	0.00	0.00	0.41	0.02	0.00	0.00	0.00	0.00	0.00
24	0.14	0.72	0.00	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.01	0.00
25	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.76	0.00	0.00	0.04
27	0.01	0.59	0.00	0.00	0.50	0.68	0.01	0.00	2.41	0.00	0.00	0.00
28	0.07	0.00	0.00	0.00	0.67	1.08	0.00	0.00	0.59	0.67	0.00	0.00
29	0.03	0.00	0.00	---	---	0.00	0.06	0.00	0.00	0.51	0.00	0.00
30	0.00	0.00	0.00	---	---	0.00	0.22	0.11	0.00	0.55	0.09	0.00
31	0.00	---	0.00	0.00	---	0.32	---	0.00	---	0.03	0.00	---
TOTAL	0.90	3.31	2.29	---	3.16	5.25	3.23	1.92	10.03	3.00	1.42	0.18



351229080480145 CRN66

LOCATION.--Lat 35°12'29", long 80°48'03", Mecklenburg County, Hydrologic Unit 03050103, Chantilly Elementary School, Briar Creek Road, Charlotte, NC.

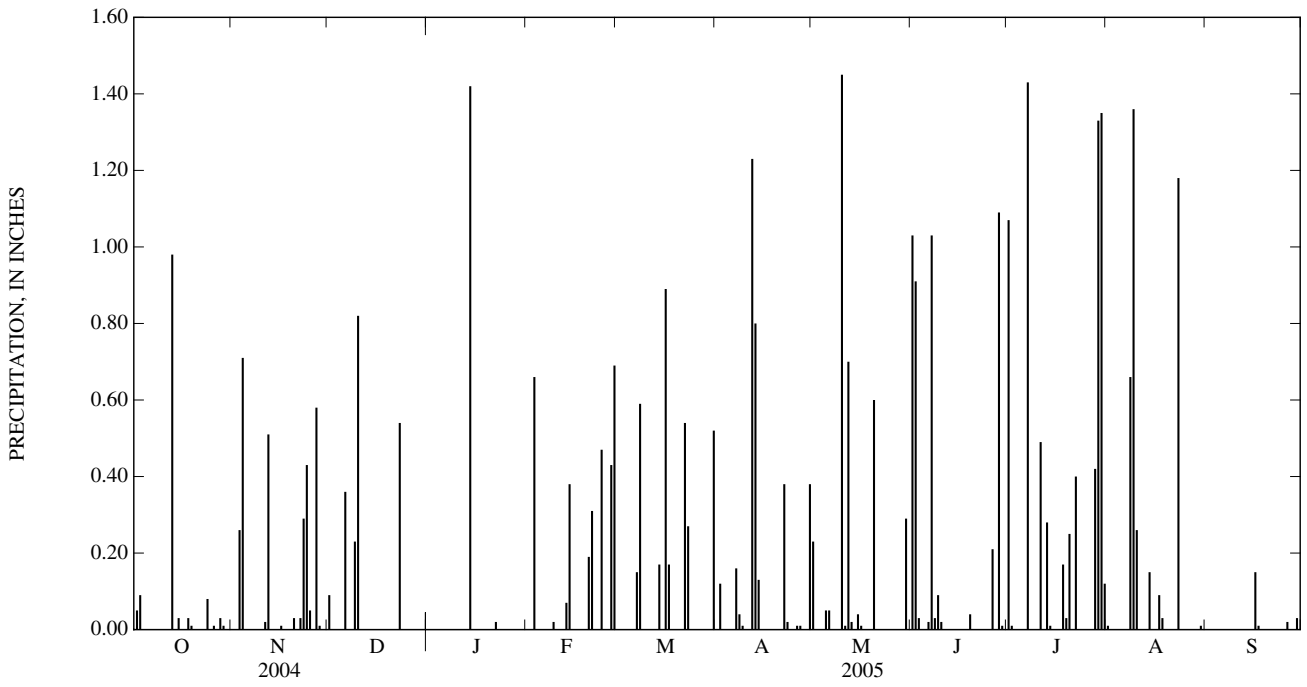
PERIOD OF RECORD.--February 2002 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.23	1.03	1.07	0.01	0.00
2	0.05	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.91	0.01	0.00	0.00
3	0.09	0.26	0.00	0.00	0.66	0.00	0.00	0.00	0.03	0.00	0.00	0.00
4	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.05	0.02	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.15	0.16	0.00	1.03	1.43	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.59	0.04	0.00	0.03	0.00	0.66	0.00
9	0.00	0.00	0.23	0.00	0.02	0.00	0.01	0.00	0.09	0.00	1.36	0.00
10	0.00	0.00	0.82	0.00	0.00	0.00	0.00	1.45	0.02	0.00	0.26	0.00
11	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.49	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	1.23	0.70	0.00	0.00	0.00	0.00
13	0.98	0.00	0.00	0.00	0.07	0.00	0.80	0.02	0.00	0.28	0.00	0.00
14	0.00	0.00	0.00	1.42	0.38	0.17	0.13	0.00	0.00	0.01	0.15	0.00
15	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00
16	0.00	0.01	0.00	0.00	0.00	0.89	0.00	0.01	0.00	0.00	0.00	0.15
17	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.09	0.01
18	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.03	0.00
19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.03	0.00	0.00
20	0.00	0.03	0.00	0.00	0.19	0.00	0.00	0.60	0.00	0.25	0.00	0.00
21	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.03	0.00	0.02	0.00	0.54	0.38	0.00	0.00	0.40	0.00	0.00
23	0.00	0.29	0.54	0.00	0.00	0.27	0.02	0.00	0.00	0.00	1.18	0.00
24	0.08	0.43	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.21	0.00	0.00	0.02
27	0.00	0.58	0.00	0.00	0.43	---	0.01	0.00	0.00	0.00	0.00	0.00
28	0.03	0.01	0.00	0.00	0.69	---	0.00	0.00	1.09	0.42	0.00	0.00
29	0.01	0.00	0.00	---	---	---	0.00	0.00	0.01	1.33	0.00	0.03
30	0.00	0.00	0.00	---	---	---	0.38	0.29	0.00	1.35	0.01	0.00
31	0.00	---	0.00	0.00	---	0.52	---	0.00	---	0.12	0.00	---
TOTAL	1.32	2.93	2.04	---	3.22	---	3.29	3.45	4.51	7.36	3.75	0.21



350646080432545 CRN69

LOCATION.--Lat 35°06'46", long 80°43'24", Mecklenburg County, Hydrologic Unit 03050103, Matthews Elementary School, McDowell Avenue, Matthews, NC.

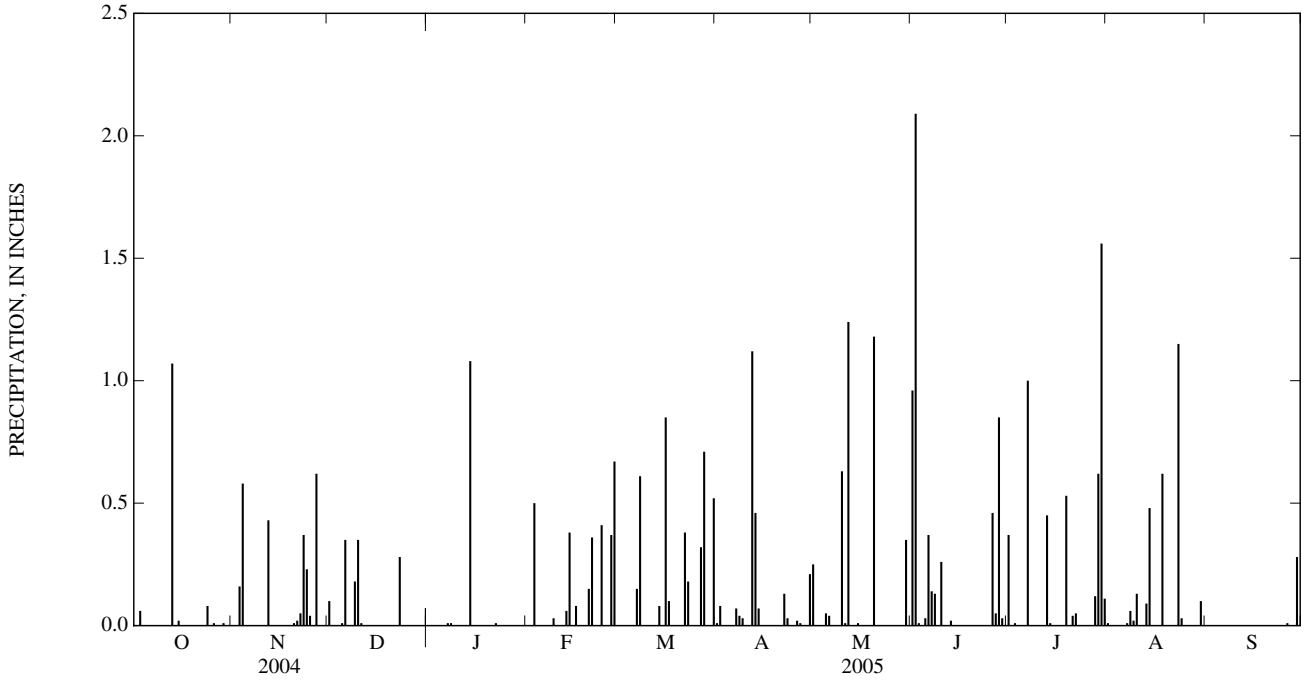
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.25	0.96	0.37	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	2.09	0.00	0.00	0.00
3	0.06	0.16	0.00	0.00	0.50	0.00	0.00	0.00	0.01	0.01	0.00	0.00
4	0.00	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.03	0.00	0.00	0.00
6	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.04	0.37	0.00	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.15	0.07	0.00	0.14	1.00	0.01	0.00
8	0.00	0.00	0.00	0.01	0.00	0.61	0.04	0.00	0.13	0.00	0.06	0.00
9	0.00	0.00	0.18	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.02	0.00
10	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.63	0.26	0.00	0.13	0.00
11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
12	0.00	0.43	0.00	0.00	0.00	0.00	1.12	1.24	0.00	0.00	0.00	0.00
13	1.07	0.00	0.00	0.00	0.06	0.00	0.46	0.00	0.02	0.45	0.09	0.00
14	0.00	0.00	0.00	1.08	0.38	0.08	0.07	0.00	0.00	0.01	0.48	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.08	0.85	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.00
20	0.00	0.01	0.00	0.00	0.15	0.00	0.00	1.18	0.00	0.00	0.00	0.00
21	0.00	0.02	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.04	0.00	0.00
22	0.00	0.05	0.00	0.01	0.00	0.38	0.13	0.00	0.00	0.05	0.00	0.00
23	0.00	0.37	0.28	0.00	0.00	0.18	0.03	0.00	0.00	0.00	1.15	0.00
24	0.08	0.23	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.03	0.00
25	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.46	0.00	0.00	0.01
27	0.00	0.62	0.00	0.00	0.37	0.32	0.01	0.00	0.05	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.67	0.71	0.00	0.00	0.85	0.12	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.03	0.62	0.00	0.28
30	0.00	0.00	0.00	---	---	0.00	0.21	0.35	0.00	1.56	0.10	0.00
31	0.00	---	0.00	0.00	---	0.52	---	0.00	---	0.11	0.00	---
TOTAL	1.25	2.51	1.28	---	3.01	3.90	2.28	3.76	5.40	4.87	2.70	0.29



350630080455845 CRN70

LOCATION.--Lat 35°06'42", long 80°45'50", Mecklenburg County, Hydrologic Unit 03050103, Providence High School, Pineville-Matthews Road, Charlotte, NC.

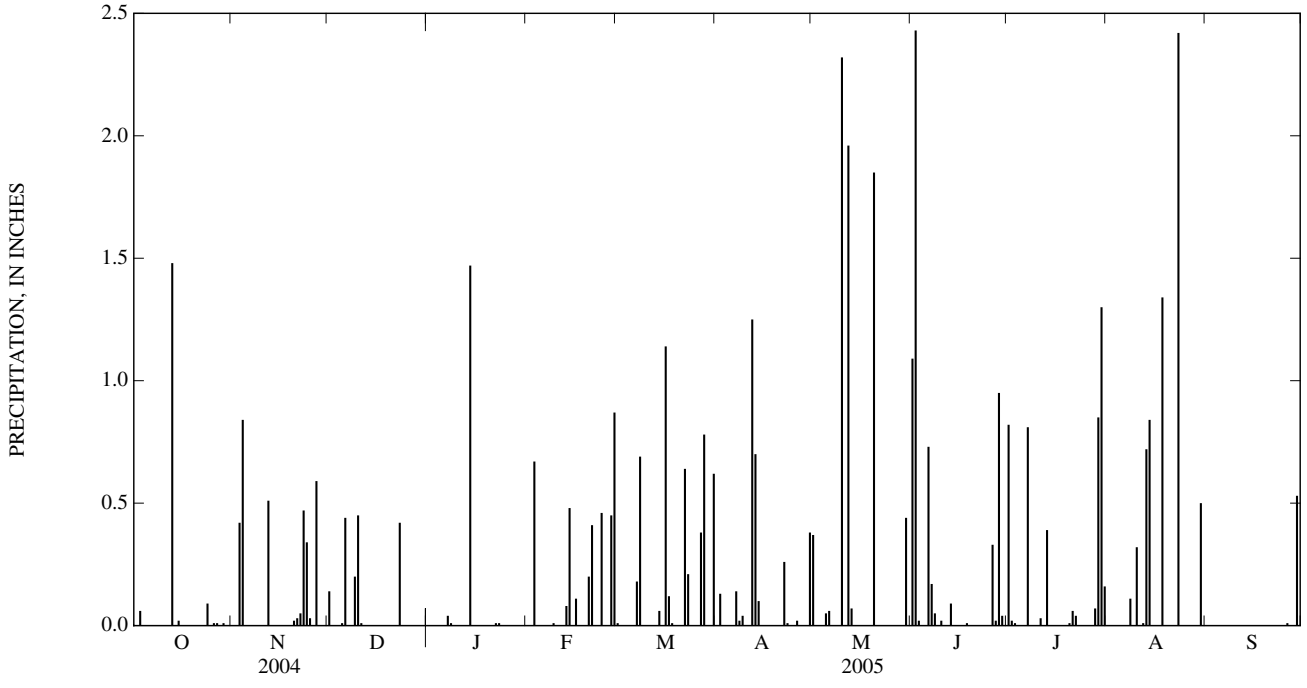
PERIOD OF RECORD.--October 2001 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Radio telemetry at station.

REMARKS.--Gage is operated as part of Charlotte/Mecklenburg Rainfall Runoff Network. Collection of frozen precipitation during January 2005 is not reflected in daily or monthly totals.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.14	0.00	0.00	0.01	0.00	0.37	1.09	0.82	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	2.43	0.02	0.00	0.00
3	0.06	0.42	0.00	0.00	0.67	0.00	0.00	0.00	0.02	0.01	0.00	0.00
4	0.00	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00
6	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.06	0.73	0.00	0.00	0.00
7	0.00	0.00	0.00	0.04	0.00	0.18	0.14	0.00	0.17	0.81	0.00	0.00
8	0.00	0.00	0.00	0.01	0.00	0.69	0.02	0.00	0.05	0.00	0.11	0.00
9	0.00	0.00	0.20	0.00	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.45	0.00	0.00	0.00	0.00	2.32	0.02	0.00	0.32	0.00
11	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
12	0.00	0.51	0.00	0.00	0.00	0.00	1.25	1.96	0.00	0.00	0.01	0.00
13	1.48	0.00	0.00	0.00	0.08	0.00	0.70	0.07	0.09	0.39	0.72	0.00
14	0.00	0.00	0.00	1.47	0.48	0.06	0.10	0.00	0.00	0.00	0.84	0.00
15	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.11	1.14	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	1.34	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.02	0.00	0.00	0.20	0.00	0.00	1.85	0.00	0.01	0.00	0.00
21	0.00	0.03	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.06	0.00	0.00
22	0.00	0.05	0.00	0.01	0.00	0.64	0.26	0.00	0.00	0.04	0.00	0.00
23	0.00	0.47	0.42	0.01	0.00	0.21	0.01	0.00	0.00	0.00	2.42	0.00
24	0.09	0.34	0.00	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.33	0.00	0.00	0.01
27	0.01	0.59	0.00	0.00	0.45	0.38	0.00	0.00	0.02	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.87	0.78	0.00	0.00	0.95	0.07	0.00	0.00
29	0.01	0.00	0.00	---	---	0.00	0.00	0.00	0.04	0.85	0.00	0.53
30	0.00	0.00	0.00	---	---	0.00	0.38	0.44	0.00	1.30	0.50	0.00
31	0.00	---	0.00	---	---	0.62	---	0.00	---	0.16	0.00	---
TOTAL	1.68	3.30	1.67	---	3.74	4.84	3.05	7.12	5.95	4.57	6.26	0.54



LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN

02067800; 02067820 TALBOTT AND TOWNES RESERVOIRS

These two reservoirs on the Dan River are operated as a unit for storage of water for Pinnacles hydroelectric plant.

TALBOTT DAM

LOCATION.--Lat 36°40'36", long 80°23'51", Patrick County, Va, Hydrologic Unit 03010103, 4.5 mi northeast of Kibler.

DRAINAGE AREA.--20.2 mi^2.

TOWNES DAM

LOCATION.--Lat 36°41'11", long 80°25'49", Patrick County, Va, Hydrologic Unit 03010103, 4 mi north of Kibler.

DRAINAGE AREA.--32.9 mi^2.

PERIOD OF RECORD.--February 1939 to December 1945 and January 1948 to September 1960 (combined monthend contents only published in WSP 1723), October 1960 to current year.

REMARKS.--Total capacity of Talbott Reservoir is 350,000,000 ft^3 and Townes Reservoir is 60,000,000 ft^3. Filling was started in Talbott Reservoir Feb. 13, 1939, and in Townes Reservoir several months earlier. Records furnished by city of Danville, Virginia. (See station 02068500.)

02077280 HYCO LAKE

LOCATION.--Lat 36°30'42", long 79°02'50", Person County, Hydrologic Unit 03010104, at outlet control structure 0.4 mi northwest of dam on Hyco River, 1.1 mi southwest of McGehees Mill, and 8 mi northwest of Roxboro.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--October 1964 to current year. Prior to October 1970, published as "Roxboro Steam-Electric Generating Plant Lake."

GAGE.--Water-stage recorder and tape gage. Prior to Feb. 11, 1965, staff gage at upstream end of outlet control structure. Datum of gage is 399.79 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for cooling water at the Roxboro Steam-Electric Generating Plant of Carolina Power and Light Co., first began to fill Sept. 19, 1964, and first reached spillway elevation (9.97 ft gage height) Mar. 19, 1965. Total capacity at top of spillway is 3,288,000,000 ft^3. Lake cannot be drawn below -0.03 ft (bottom of gated flume).

02079964 LAKE GASTON

LOCATION.--Lat 36°30'04", long 77°48'43", Halifax County, Hydrologic Unit 03010106, at Gaston Dam on Roanoke River, 0.2 mi upstream from Black Gut Creek, and 2.7 mi northwest of Thelma.

DRAINAGE AREA.--8,310 mi^2.

PERIOD OF RECORD.--October 1962 to current year.

GAGE.--Water-stage recorder and staff gage. Datum of gage is sea level.

REMARKS.--Lake, used mainly for hydroelectric power development, was first filled Oct.13-15, 1962, and has a total capacity of 22,434,000,000 ft^3. Usable capacity at top of spillway gates, 20,127,000,000 ft^3, is between elevations 165 and 203 ft. Capacity reserved for flood control, 2,788,000 ft^3, is between elevations 200 and 203 ft. Storage for power generation, 10,673,000,000 ft^3, is between elevations 185 and 200 ft.

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02080100 ROANOKE RAPIDS LAKE

LOCATION.--Lat 36°28'44", long 77°40'23", Halifax County, Hydrologic Unit 03010107, at Roanoke Rapids Dam on Roanoke River, 1.5 mi upstream from bridge on State Highway 48, and 2.2 mi north of Roanoke Rapids.

DRAINAGE AREA.--8,371 mi^2.

PERIOD OF RECORD.--June 1955 to September 1960 (monthend contents only published in WSP 1723, October 1960 to current year.

GAGE.--Water-stage recorder and staff gage. Datum of gage is sea level.

REMARKS.--Lake, used for hydroelectric power development, was put in operation June 25, 1955, and has a total capacity of 3,360,220,000 ft^3 at elevation 132.0 ft (normal high water). Usable capacity is 3,515,290,000 ft^3 at 132.75 ft (top of gates).

COOPERATION.--Records furnished by Virginia Electric and Power Co. (See station 02080500.)

02087182 FALLS LAKE

LOCATION.--Lat 35°56'24", long 78°34'51", Wake County, Hydrologic Unit 03020201, above Falls Dam on Neuse River at Falls, 10 mi north of Raleigh, and 235 mi upstream from mouth.

DRAINAGE AREA.--771 mi^2.

PERIOD OF RECORD.--February 1979 to current year.

GAGE.--Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Temporary filling began May 1981 for water supply for city of Raleigh during drought conditions. Jan. 13, 1983, gates closed and normal pool elevation of 250.1 ft was reached Dec. 7, 1983. (See station 02087183.) Total capacity of reservoir is 4,998,074,400 ft^3 at elevation of 250.1 ft.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02087183.)

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

02098197 B. EVERETT JORDAN LAKE

LOCATION.--Lat 35°39'16", long 79°04'06", Chatham County, Hydrologic Unit 03030002, at B. Everett Jordan Dam on Haw River, 0.3 mi downstream of mouth of New Hope River, 2.5 mi north of Moncure, 4.2 mi upstream from mouth of Haw River, and 202.2 mi upstream from mouth of Cape Fear River.

DRAINAGE AREA.--1,689 mi^2.

PERIOD OF RECORD.--December 1972 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, water supply, low-flow augmentation, and recreation. Some storage was affected during construction and then operated temporarily as a "dry reservoir" January 1975 to August 1981. Reservoir began filling September 1981 and reached normal pool elevation, 216 ft, Feb. 4, 1982. Total capacity is 32,825,074,000 ft^3 at 240.0 ft, of which 23,454,011,000 ft^3 is controlled flood storage. (See station 02098198.)

02111391 W. KERR SCOTT RESERVOIR

LOCATION.--Lat 36°08'01", long 81°13'36", Wilkes County, Hydrologic Unit 03040101, at W. Kerr Scott Dam on Yadkin River, 0.1 mi upstream from Fish Trap Creek, 2.0 mi upstream from Millers Creek, and 4.0 mi west of Wilkesboro.

DRAINAGE AREA.--350 mi^2, approximately.

PERIOD OF RECORD.--August 1962 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is sea level.

REMARKS.--Lake is used for flood control, low-flow augmentation, recreation, and water supply. Some storage was affected during construction in July 1962, but gates were closed Aug. 22, 1962. Reservoir reached normal pool elevation on Jan. 19, 1963. Total capacity at elevation 1075.0 ft is 6,664,680,000 ft^3 of which 4,878,720,000 ft^3 is controlled flood storage.

COOPERATION.--Records furnished by Corps of Engineers. (See station 02129000.)

02122400 HIGH ROCK LAKE

LOCATION.--Lat 35°36'02", long 80°14'05", Davidson County, Hydrologic Unit 03040103, at High Rock Dam on Yadkin River, 2 mi upstream from Lick Creek, 0.8 mi northwest of High Rock, and 256 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--3,970 mi^2, approximately.

PERIOD OF RECORD.--November 1927 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Nov. 7, 1927. Total capacity is 11,090,000,000 ft^3. Usable capacity, 10,230,000,000 ft^3, is between 625 and 655 ft gage datum (top of gates).

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122699 TUCKERTOWN RESERVOIR

LOCATION.--Lat 35°29'09", long 80°10'32", Stanly County, Hydrologic Unit 03040103, at Tuckertown Dam on Yadkin River, 2.5 mi upstream from Garr Creek, 3.8 mi northeast of New London, and 250 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,100 mi^2, approximately.

PERIOD OF RECORD--April 1962 to current year.

GAGE--Remote water-stage recorder in powerhouse. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, used for hydroelectric power development, was first filled Apr. 6, 1962. Total capacity is 1,852,400,000 ft^3. Usable capacity, 293,800,000 ft^3, is between 593 and 596 ft gage datum.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02122844 BADIN LAKE

LOCATION.--Lat 35°25'10", long 80°05'36", Stanly County, Hydrologic Unit 03040103, at Badin Dam on Yadkin River, 2.5 mi upstream from Falls Dam, 1.5 mi northeast of Badin, and 242 mi upstream from mouth of Pee Dee River in Winyah Bay.

DRAINAGE AREA.--4,150 mi^2, approximately.

PERIOD OF RECORD.--December 1917 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and staff gage at dam. Datum of gage is 30.9 ft below sea level.

REMARKS.--Lake, generally known as Narrows Reservoir, used for hydroelectric power development, was first put in operation July 12, 1917. Total capacity is 10,497,960,000 ft^3. Usable capacity, 5,616,584,000 ft^3, is between 510.00 and 541.10 ft.

COOPERATION.--Records furnished by Yadkin, Inc. (See station 02129000.)

02123736 LAKE TILLERY

LOCATION.--Lat 35°12'24", long 80°03'57", Stanly County, Hydrologic Unit 03040104, at Norwood Dam on Pee Dee River, 700 ft upstream from Norfolk Southern Railroad bridge, 5 mi upstream from Rocky River, 3.5 mi southeast of Norwood, and 224 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--4,640 mi^2, approximately.

PERIOD OF RECORD.--February 1928 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Water-stage recorder and float-tape gage at dam. Datum of gage is 38.67 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation during January 1928. Total capacity is 7,274,520,000 ft^3. Usable capacity, 5,927,040,000 ft^3, is between elevations 200.5 and 239.5 ft gage datum (top of gates).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02128800 BLEWETT FALLS LAKE

LOCATION.--Lat 34°58'58", long 79°52'40", Richmond County, Hydrologic Unit 03040104, at Blewett Falls Dam on Pee Dee River, 1.2 mi upstream from Cartledge Creek, 6.5 mi northwest of Rockingham, and 195 mi upstream from mouth in Winyah Bay.

DRAINAGE AREA.--6,820 mi^2, approximately.

PERIOD OF RECORD.--December 1929 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Self-synchronous motor, dial indicator, and staff gage at dam. Datum of gage is 39.08 ft above sea level (levels by Carolina Power and Light Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in use during 1911. Total capacity is 4,225,320,000 ft^3. Usable capacity, 1,850,000,000 ft^3, is between 120.0 and 139.0 ft gage datum (top of flashboards).

COOPERATION.--Records furnished by Carolina Power and Light Co. (See station 02129000.)

02138519 LAKE JAMES

LOCATION.--Lat 35°44'36", long 81°50'22", Burke County, Hydrologic Unit 03050101, at Linville Dam at intake tower on Catawba River, 2.1 mi northeast of Bridgewater, and 279 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--383 mi^2, approximately.

PERIOD OF RECORD.--March 1920 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage with self-synchronous motor to indicator in powerhouse. Staff gage at Catawba River Dam is also read when lake elevation drops below 1,160 ft, 60 ft gage datum, and lake becomes two separate reservoirs. Datum of gage is 1,100.00 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Bridgewater Reservoir, used for hydroelectric power development, was first put in operation May 5, 1919. The total capacity is 12,581,800,000 ft^3 at 100.0 ft gage datum (crest of spillway). Usable capacity, 7,943,700,000 ft^3, is between 65.0 and 100.0 ft gage datum.

COOPERATION.--Records furnished by Duke Power Co.

02141490 RHODHISS LAKE

LOCATION.--Lat 35°46'23", long 81°26'29", Caldwell County, Hydrologic Unit 03050101, at Rhodhiss Dam on Catawba River, 0.8 mi west of Rhodhiss, 1.8 mi south of Granite Falls, and 243 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,090 mi^2, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and reference point at dam. Datum of gage is 895.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Feb. 18, 1925. Total capacity is 3,188,592,000 ft^3. Usable capacity, 1,717,000,000 ft^3, is between elevations 85.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

02141961 LAKE HICKORY

LOCATION.--Lat 35°49'20", long 81°11'36", Alexander County, Hydrologic Unit 03050101, at Oxford Dam on Catawba River, 2 mi upstream from Lower Little River, 7 mi south of Taylorsville, and 226 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,310 mi^2, approximately.

PERIOD OF RECORD.--September 1935 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage and indicator at dam. Datum of gage is 835.0 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, generally known as Oxford Reservoir, used for hydroelectric power development, was first put in operation Apr. 5, 1928. Total capacity is 5,552,985,000 ft^3. The usable capacity from Sept. 1, 1935, to Sept. 30, 1957, was considered to be 2,277,970,200 ft^3 between 85.0 and 100.0 ft gage datum (top of flood gates). Usable capacity from Apr. 30, 1928, to Aug. 31, 1935, Oct. 1, 1957, to Sept. 30, 1964, was considered to be 3,378,400,000 ft^3 between 75.0 and 100.0 ft gage datum (top of flood gates); and from Oct. 1, 1964, to present, is considered to be 2,277,800,000 ft^3 between 85.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

02142441 LOOKOUT SHOALS LAKE

LOCATION.--Lat 35°45'26", long 81°05'26", Catawba County, Hydrologic Unit 03050101, at Lookout Shoals Dam on Catawba River, 4 mi upstream from bridge on U.S. Highways 64 and 70, 4.2 mi north of Catawba, and 216 mi upstream from mouth of Wateree River.

DRAINAGE AREA.-- 1,450 mi^2, approximately.

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

PERIOD OF RECORD.--December 1915 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and staff gage at dam. Datum of gage is 738.1 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 2, 1915. Total capacity was originally 1,355,190,000 ft^3. Capacity has been reduced by silting. The usable capacity prior to October 1957 was considered to be 473,980,000 ft^3 and from October 1957 to Sept. 30, 1964, was considered to be 388,300,000 ft^3 between elevations 90.0 and 100.0 ft gage datum (crest of spillway). Usable capacity from Oct. 1, 1964, to present is considered to be 208,200,000 ft^3 between 95.0 and 100.0 ft gage datum (crest of spillway). Flood of July 16, 1916, washed out an earth dike.

COOPERATION.--Records furnished by Duke Power Co.

02142647 LAKE NORMAN

LOCATION.--Lat 35°26'05", long 80°57'30", Mecklenburg County, Hydrologic Unit 03050101, at Cowans Ford Dam on Catawba River, 0.8 mi upstream from Derr Creek, 7.8 mi southwest of Davidson, and 182 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,790 mi^2, approximately.

PERIOD OF RECORD.--March 1962 to current year.

GAGE.--Float gage with transmitter to dial meter in control room. Datum of gage is 660 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, began filling in March 1962. Total capacity is 47,586,200,000 ft^3. Usable capacity, 26,910,400,000 ft^3, is between 75.0 and 100.0 ft gage datum (top of flood gates).

COOPERATION.--Records furnished by Duke Power Co.

02142676 MOUNTAIN ISLAND LAKE

LOCATION--Lat 35°20'03", long 80°59'12", Gaston County, Hydrologic Unit 03050101, at Mountain Island Dam on Catawba River, 1.5 mi downstream from bridge on State Highway 16, 3 mi northeast of Mount Holly, and 167 mi upstream from mouth of Wateree River.

DRAINAGE AREA.--1,860 mi^2, approximately.

PERIOD OF RECORD.--December 1923 to September 1960 (monthend contents only, published in WSP 1723), October 1960 to current year.

GAGE.--Float gage, indicator, and stage gage at dam. Datum of gage is 547.5 ft above sea level (levels by Duke Power Co.).

REMARKS.--Lake, used for hydroelectric power development, was first put in operation Dec. 16, 1923. Total capacity is 2,495,988,000 ft^3. Usable capacity prior to October 1964 was considered to be 1,132,000,000 ft^3 between 90.0 and 100.0 ft gage datum (crest of spillway) and from October 1964 to present, 845,000,000 ft^3, is considered to be between 93.0 and 100.0 ft gage datum (crest of spillway).

COOPERATION.--Records furnished by Duke Power Co.

OTHER RESERVOIRS

The following smaller reservoirs in the South Atlantic Slope basin are described below. Records of contents are not published herein.

02077229 LAKE ROXBORO

LOCATION.--Lat 36°20'53", long 79°09'00", Caswell County, Hydrologic Unit 03010104, on South Hyco Creek near Roseville.

DRAINAGE AREA.--23.2 mi^2.

REMARKS.--Lake is part of Roxboro's municipal water supply. Total capacity is 380,991,000 ft^3. Dam was completed and filled April 1978. (See station 02077250.)

02077302 ROXBORO STEAM-ELECTRIC GENERATING PLANT AFTERBAY RESERVOIR

LOCATION.--Lat 36°31'51", long 78°59'50", Person County, Hydrologic Unit 03010104, on Hyco River near McGehees Mill.

DRAINAGE AREA.--196 mi^2.

REMARKS.--Lake is used as a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is approximately 522,720,000 ft^3 with a surface area of about 650 acres at a normal elevation of 385 ft above sea level. Dam completed May 30, 1974, and filling began Apr. 26, 1974. Water in reservoir first reached normal water-level elevation, 385 ft, on Aug. 22, 1974.

02077665 MAYO STEAM-ELECTRIC GENERATING PLANT LAKE.

LOCATION--Lat 36°32'15", long 78°52'30", Person County, Hydrologic Unit 03010104, on Mayo Creek near Bethel Hill.

DRAINAGE AREA.-- 52.2 mi^2.

REMARKS.--Lake is used as cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,831,000,000 ft^3 with a surface area of 2,800 acres at a normal elevation of 434 ft above sea level. Dam was completed and filling began Aug. 1, 1980. Water in reservoir first reached normal water-level elevation of 434 ft on April 16, 1983. (See station 02077660.)

02086490 LAKE MICHIE

LOCATION.--Lat 36°09'02", long 79°49'49", Durham County, Hydrologic Unit 03020201, at Durham municipal dam on Flat River, 3 mi southeast of Bahama, and 5 mi upstream from confluence with Eno River.

DRAINAGE AREA.--167 mi^2, approximately.

PERIOD OF RECORD.--October 1962 to April 1975.

REMARKS.--Lake, used for municipal water supply, began filling in May 1926 and reached spillway elevation Dec. 26, 1926. Total capacity, 618,000,000 ft^3, is between 300.0 and 341.0 ft gage datum (crest of spillway). (See station 02087000.)

02087339 LAKE JOHNSON

LOCATION.--Lat 35°45'44", long 78°42'17", Wake County, Hydrologic Unit 03020201, on Walnut Creek near Raleigh.

DRAINAGE AREA.--7.10 mi^2.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 98,900,000 ft^3. Dam was completed in 1923 and spillway raised to its present elevation in 1951. (See station 02087500.)

02087344 LAKE RALEIGH

LOCATION.--Lat 35°45'56", long 78°40'38", Wake County, Hydrologic Unit 03020201, on Walnut Creek near Raleigh.

DRAINAGE AREA.--12.3 mi^2.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 13,400,000 ft^3. Dam was completed in 1914 and raised to its present elevation in 1919. (See station 02087500.)

02087588 LAKE WHEELER

LOCATION.--Lat 35°41'39", long 78°41'39", Wake County, Hydrologic Unit 03020201, on Swift Creek near Raleigh.

DRAINAGE AREA.-- 35.8 mi^2.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 267,400,000 ft^3. Dam was completed and filling began in 1956. (See station 02087500.)

02087701 LAKE BENSON

LOCATION.--Lat 35°39'44", long 78°36'42", Wake County, Hydrologic Unit 03020201, on Swift Creek near Garner.

DRAINAGE AREA.--66.3 mi^2, approximately.

REMARKS.--Lake is part of Raleigh's municipal water supply. Total capacity is 133,700,000 ft^3. Lake, formerly known as Rand's Mill, acquired by city of Raleigh in 1927 and spillway raised to its present elevation in 1954. (See station 02087500.)

02090370 BUCKHORN RESERVOIR

LOCATION.--Lat 35°41'22", long 78°07'33", Wilson County, Hydrologic Unit 03020203, on Contentnea Creek near Lucama.

DRAINAGE AREA.--155 mi^2.

REMARKS.--Lake is part of Wilson's municipal water supply. Total capacity is approximately 909,000,000 ft^3. Original dam was completed Nov. 12, 1976, and reservoir initially filled Dec. 1, 1976 (previous capacity 133,680,000 ft^3). (See station 02090380.) Construction on new dam downstream of original structure was completed in July 1999, and reservoir was filled by mid-September in response to heavy tropical rains (Hurricane Floyd).

02093981 LAKE HIGGINS

LOCATION.--Lat 36°10'06", long 79°52'48", Guilford County, Hydrologic Unit 03030002, on Brush Creek near Greensboro.

DRAINAGE AREA.--12 mi^2, approximately.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 107,000,000 ft^3. Reservoir was first filled Mar. 1, 1957. (See station 02094500.)

02094117 LAKE BRANDT

LOCATION.--Lat 36°10'21", long 79°50'20", Guilford County, Hydrologic Unit 03030002, on Reedy Fork and Horsepen Creek near Greensboro.

DRAINAGE AREA.--68.4 mi^2.

REMARKS.--Total capacity is 294,000,000 ft^3. Dam was completed February 1923 and raised to present level 1959-60. Reservoir first filled to present level on Oct. 8, 1960. Lake is part of Greensboro's municipal water supply. (See station 02094500.)

02094305 LAKE TOWNSEND

LOCATION.--Lat 36°11'20", long 79°43'55", Guilford County, Hydrologic Unit 03030002, on Reedy Fork near Greensboro.

DRAINAGE AREA.--105 mi^2.

REMARKS.--Lake is part of Greensboro's municipal water supply. Total capacity is 869,000,000 ft^3. Dam was completed Oct. 18, 1968, and reservoir was first filled on Aug. 17, 1969. (See station 02094500.)

02096003 LAKE BURLINGTON

LOCATION.--Lat 36°10'38", long 79°24'43", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--46.6 mi^2, approximately.

REMARKS.--Lake is part of Burlington's municipal water supply. Prior to October 1971 published as "Stony Creek Reservoir." Total capacity is 427,800,000 ft^3. Dam completed August 1960 and reservoir first filled Jan. 28, 1961. (See station 02096500.)

02096432 STONY CREEK RESERVOIR

LOCATION.--Lat 36°07'40", long 79°24'23", Alamance County, Hydrologic Unit 03030002, on Stony Creek near Burlington.

DRAINAGE AREA.--104mi^2.

REMARKS.--Lake is part of Burlington's water supply. Prior to October 1971 published as "Lake Burlington." Total capacity is 64,900,000 ft^3. Dam completed and reservoir filled in 1928. (See station 02096500.)

02098495 OAK HOLLOW RESERVOIR

LOCATION.--Lat 36°00'42", long 79°59'11", Guilford County, Hydrologic Unit 03030003, on West Fork Deep River and 1.8 mi southwest of Deep River.

DRAINAGE AREA.--32 mi^2, approximately.

REMARKS.--Lake is part of High Point's municipal water supply. Total capacity is 468,000,000 ft^3. Dead storage (nonwithdrawal) is minor. Total surface area, about 725 acres. Dam completed and filling began in May 1970. Reservoir first filled Dec. 24, 1970. (See station 02099500.)

02099096 HIGH POINT MUNICIPAL LAKE

LOCATION.--Lat 35°59'43", long 79°56'42", Guilford County, Hydrologic Unit 03030003, on Deep River near High Point, High Point's municipal water supply.

DRAINAGE AREA.--61.4 mi^2.

REMARKS.--Total capacity is 220,588,000 ft^3. Dam completed in 1926 and reservoir first filled in 1927. (See station 02099500)

02102178 BUCKHORN RESERVOIR

LOCATION.--Lat 35°32'22", long 78°59'27", Chatham County, Hydrologic Unit 03030004, on Cape Fear River near Corinth.

DRAINAGE AREA.--3,230 mi^2, approximately.

REMARKS.-- Usable capacity is 69,700,000 ft^3. Completed and filled in 1908. Hydroelectric power operation stopped Dec. 31, 1962.

02102190 SHEARON HARRIS MAIN RESERVOIR

LOCATION.--Lat 35°34'00", long 78°57'55", Chatham County, Hydrologic Unit 03030004, on Buckhorn Creek near Corinth.

DRAINAGE AREA.--71 mi^2.

REMARKS.--Lake is a cooling-water reservoir for Carolina Power and Light Co. powerplant. Total capacity is 3,136,320,000 ft^3 with a surface area of 4,150 acres at a normal elevation of 220 ft above sea level. Dam was completed Dec. 23, 1981, and filling began Dec. 1, 1980. (See station 02102192.)

02121461 LEXINGTON-THOMASVILLE RESERVOIR

LOCATION.--Lat 35°52'15", long 80°11'33", Davidson County, Hydrologic Unit 03050103, on Abbotts Creek near Lexington.

DRAINAGE AREA.--70.3 mi^2.

REMARKS.--Total capacity is 284,100,000 ft^3 of which 281,400,000 ft^3 is usable. Dam completed Aug. 8, 1957, and reservoir first filled Nov. 23, 1957. Lexington and Thomasville's municipal water supply.

02184122 LAKE TOXAWAY

LOCATION.--Lat 35°07'27", long 82°55'56", Transylvania County, Hydrologic Unit 03060101, on Toxaway River at town of Lake Toxaway.

DRAINAGE AREA.--7.79 mi^2.

REMARKS.--A recreation lake. Total surface area is about 640 acres. Lake reached spillway elevation September 1961.

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02067800 & 02067820 Talbott & Townes Reservoir			02077280 Hyco Lake	
Sept. 30	--	389.00	--	10.52	3,373	--
Oct. 31	--	370.20	-19	10.47	3,366	-7
Nov. 30	--	342.60	-28	10.76	3,411	45
Dec. 31	--	342.90	0	10.53	3,378	-33
CAL YR 2004		--	15		--	2
Jan. 31	--	385.10	42	10.60	3,386	8
Feb. 28	--	384.30	-1	10.69	3,400	14
Mar. 31	--	386.30	2	10.87	3,428	28
Apr. 30	--	370.00	-16	10.52	3,373	-55
May 31	--	370.80	1	10.34	3,346	-27
June 30	--	357.00	-14	10.11	3,310	-36
July 31	--	338.10	-19	10.19	3,322	12
Aug. 31	--	330.40	-8	9.72	3,247	-75
Sept 30	--	278.50	-52	8.81	3,099	-148
WTR YR 2005		--	-111		--	-274

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02079964 Lake Gaston			02080100 Roanoke Rapids Lake	
Sept. 30	199.91	19,523	--	131.80	3,317	--
Oct. 31	199.77	19,402	-121	131.80	3,317	0
Nov. 30	199.73	19,367	-35	130.80	3,122	-195
Dec. 31	200.74	20,247	880	131.00	3,162	40
CAL YR 2004		--	1,028		--	0
Jan. 31	199.49	19,157	-1,090	130.20	3,008	-154
Feb. 28	199.63	19,280	123	131.70	3,295	287
Mar. 31	199.50	19,166	-114	131.50	3,252	-43
Apr. 30	199.41	19,088	-78	130.50	3,062	-190
May 31	199.58	19,236	148	130.40	3,044	-18
June 30	199.85	19,471	235	129.50	2,879	-165
July 31	199.58	19,236	-235	129.50	2,879	0
Aug. 31	199.65	19,298	62	131.40	3,234	355
Sept 30	199.26	18,957	-341	131.20	3,198	-36
WTR YR 2005		--	-566		--	-119

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02087182 Falls Lake				
Sept. 30	251.62	5,605	--			
Oct. 31	251.56	5,551	-32			
Nov. 30	252.43	5,518	484			
Dec. 31	251.83	6,002	-338			
CAL YR 2004		--	59			
Jan. 31	251.89	0	32			
Feb. 28	252.25	5,697	203			
Mar. 31	252.55	5,899	172			
Apr. 30	251.38	6,071	-650			
May 31	251.07	5,421	-168			
June 30	250.63	5,254	-225			
July 31	249.55	5,029	-531			
Aug. 31	248.20	4,498	-592			
Sept 30	245.86	3,906	-860			
WTR YR 2005		--	-2,505			

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02098197 B. Everett Jordan Lake			02111391 W. Kerr Scott Reservoir	
Sept. 30	218.01	10,649	--	1,030.83	1,857	--
Oct. 31	216.25	9,528	-1,121	1,030.24	1,807	-50
Nov. 30	218.37	10,893	1,365	1,030.16	1,800	-7
Dec. 31	216.34	9,584	-1,308	1,030.12	1,796	-3
CAL YR 2004		--	25		--	-16
Jan. 31	216.72	9,823	239	1,030.36	1,817	21
Feb. 28	217.49	10,314	491	1,030.44	1,824	7
Mar. 31	218.70	11,116	802	1,030.56	1,834	10
Apr. 30	216.12	9,446	-1,670	1,030.25	1,807	-27
May 31	216.10	9,434	-13	1,030.03	1,789	-19
June 30	215.46	9,052	-381	1,030.27	1,809	21
July 31	216.31	9,566	513	1,030.12	1,796	-13
Aug. 31	215.45	9,046	-519	1,030.04	1,789	-7
Sept 30	212.97	7,655	-1,391	1,028.20	1,698	-92
WTR YR 2005		--	-2,993		--	-159

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02122400 High Rock Lake			02122699 Tuckertown Reservoir	
Sept. 30	654.69	10,872	--	595.50	1,801	--
Oct. 31	651.72	9,050	-1,822	595.51	1,802	1
Nov. 30	653.16	9,916	866	595.00	1,749	-53
Dec. 31	651.04	8,666	-1,250	595.00	1,749	0
CAL YR 2004		--	1,515		--	-2
Jan. 31	646.40	6,296	-2,370	595.04	1,753	4
Feb. 28	650.15	8,175	1,879	595.70	1,821	68
Mar. 31	654.22	10,567	2,392	594.47	1,696	-125
Apr. 30	653.48	10,110	-457	594.58	1,707	11
May 31	653.72	10,255	145	594.90	1,738	31
June 30	653.07	9,862	-393	595.15	1,764	26
July 31	654.42	10,696	834	594.95	1,744	-20
Aug. 31	650.70	8,476	-2,220	594.62	1,711	-33
Sept 30	649.77	7,971	-505	595.03	1,752	41
WTR YR 2005		--	-2,901		--	-49

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02122844 Badin Lake			02123736 Lake Tillery	
Sept. 30	540.55	10,369	--	277.10	5,693	--
Oct. 31	539.62	10,152	-217	277.70	5,822	129
Nov. 30	540.10	10,264	112	274.50	5,140	-682
Dec. 31	539.96	10,231	-33	276.80	5,628	488
CAL YR 2004		--	-49		--	-151
Jan. 31	540.66	10,395	164	277.70	5,822	194
Feb. 28	540.90	10,451	56	277.60	5,801	-21
Mar. 31	540.01	10,243	-208	276.80	5,628	-173
Apr. 30	539.70	10,171	-72	277.90	5,866	238
May 31	540.40	10,334	163	277.80	5,844	-22
June 30	540.38	10,329	-5	277.40	5,757	-87
July 31	539.78	10,189	-140	277.40	5,757	0
Aug. 31	539.92	10,222	33	277.70	5,822	65
Sept 30	539.75	10,183	-39	277.80	5,844	22
WTR YR 2005		--	-186		--	151

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02128800 Blewett Falls Lake			02138519 Lake James	
Sept. 30	180.80	2,112	--	99.7	12,121	--
Oct. 31	177.10	1,742	-370	95.9	11,141	-981
Nov. 30	177.30	1,762	20	95.0	10,914	-227
Dec. 31	173.00	1,332	-430	94.2	10,715	-199
CAL YR 2004		--	-370		--	-124
Jan. 31	177.10	1,742	410	94.3	10,740	25
Feb. 28	179.40	1,972	230	92.2	10,225	-514
Mar. 31	178.60	1,892	-80	96.7	11,344	1,118
Apr. 30	174.30	1,462	-430	97.2	11,472	128
May 31	176.70	1,702	240	98.5	11,808	336
June 30	176.30	1,662	-40	98.2	11,730	-78
July 31	177.60	1,792	130	97.4	11,268	-462
Aug. 31	175.90	1,622	-170	97.1	11,446	178
Sept 30	177.20	1,752	130	96.0	11,166	-280
WTR YR 2005		--	-360		--	-956

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02141490 Rhodhiss Lake			02141961 Lake Hickory	
Sept. 30	96.9	1,771	--	97.9	5,161	--
Oct. 31	96.9	1,771	0	97.0	5,008	-153
Nov. 30	97.1	1,786	16	97.6	5,110	102
Dec. 31	96.4	1,732	-54	97.2	5,042	-68
CAL YR 2004		--	46		--	0
Jan. 31	97.1	1,786	54	97.8	5,144	102
Feb. 28	97.7	1,833	47	96.9	4,991	-153
Mar. 31	97.2	1,794	-39	99.2	5,389	398
Apr. 30	97.0	1,778	-16	97.1	5,025	-364
May 31	96.7	1,755	-23	97.6	5,110	85
June 30	97.7	1,833	78	97.1	5,025	-85
July 31	97.3	1,802	-31	97.2	5,042	17
Aug. 31	97.3	1,802	0	96.9	4,991	-51
Sept 30	96.5	1,740	-62	97.7	5,127	136
WTR YR 2005		--	-31		--	-34

LAKES AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02142441 Lookout Shoals Lake			02142647 Lake Norman		
Sept. 30	99.0	1,052	--	99.0	45,084	--
Oct. 31	98.0	1,014	-38	96.9	42,180	-2,904
Nov. 30	97.1	981	-33	98.4	44,250	2,070
Dec. 31	90.0[a]	741	-240	95.8	40,686	-3,564
CAL YR 2004		--	-269		--	-677
Jan. 31	97.5	996	255	93.4	37,566	-3,119
Feb. 28	97.7	1,003	7	95.7	40,552	2,985
Mar. 31	99.7	1,079	76	98.1	43,832	3,280
Apr. 30	97.2	984	-95	97.4	42,867	-965
May 31	97.6	999	15	98.0	43,693	826
June 30	97.5	996	-4	98.2	43,971	278
July 31	98.6	1,037	41	97.7	43,280	-691
Aug. 31	96.9	973	-63	96.9	42,180	-1,100
Sept 30	97.2	984	11	96.2	41,226	-954
WTR YR 2005		--	-68		--	-3,858

Date	Gage Height (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
	02142676 Mountain Island Lake		
Sept. 30	98.9	2,465	--
Oct. 31	97.4	2,289	-176
Nov. 30	97.1	2,254	-35
Dec. 31	97.4	2,289	35
CAL YR 2004		--	-12
Jan. 31	96.4	2,175	-114
Feb. 28	97.8	2,335	160
Mar. 31	97.9	2,347	12
Apr. 30	97.2	2,266	-81
May 31	96.9	2,231	-34
June 30	97.6	2,312	81
July 31	97.8	2,335	23
Aug. 31	99.0	2,477	141
Sept 30	97.1	2,254	-222
WTR YR 2005		--	-211

[a] Lake levels were lowered during December 2004 and January 2005 for maintenance purposes (Mr. Thomas Pruitt, Duke Energy Co., oral commun., Dec. 6, 2005).

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC

LOCATION.--Lat 36°23'36", long 81°24'25", Ashe County, Hydrologic Unit 05050001, on right bank 600 ft upstream from bridge on State Highways 16 and 88, 0.2 mi downstream of Bear Creek, and 4 mi southeast of Jefferson.

DRAINAGE AREA.--205 mi^2.

PERIOD OF RECORD.--October 1924 to current year. Monthly discharge only for some periods, published in WSP 1305.

REVISED RECORDS.--WSP 1275: 1925-26(M), 1928-30(M), 1931-32, 1933-35(M), 1941-42(m), 1944(m). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,657.04 ft above NGVD of 1929. Prior to Oct. 14, 1934, nonrecording gage on bridge 400 ft downstream at same datum. Oct. 14, 1934, to Mar. 25, 1935, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 14,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 15, 1916, reached a stage of 18.0 ft, from floodmarks witnessed by local resident; discharge, 35,200 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	813	449	e650	440	420	433	661	546	334	344	341	421
2	729	432	568	427	402	390	1,160	495	740	333	326	327
3	674	423	499	417	452	396	1,180	471	718	445	306	295
4	639	497	472	412	538	393	934	450	551	353	304	272
5	598	596	453	402	455	484	795	438	461	344	297	262
6	570	478	449	395	436	665	705	438	426	335	296	255
7	547	449	494	387	424	537	654	424	589	518	326	248
8	526	433	465	399	423	557	707	411	444	1,190	351	237
9	511	415	477	396	434	589	804	398	467	537	376	229
10	505	401	717	375	449	501	660	402	592	424	443	223
11	491	397	587	366	438	471	604	453	588	413	355	223
12	479	509	555	362	408	466	578	417	496	499	308	220
13	736	711	506	378	402	453	628	391	713	444	305	217
14	622	516	476	2,550	513	465	815	407	826	512	301	211
15	522	466	451	1,160	515	476	678	518	602	538	286	207
16	479	447	450	770	460	451	597	474	511	1,320	297	204
17	455	430	436	650	440	506	558	412	459	819	270	206
18	441	e466	417	573	410	473	536	391	423	583	432	208
19	458	408	411	e540	392	490	516	381	416	709	556	201
20	503	402	e406	e505	389	464	504	410	531	733	380	197
21	457	392	e402	496	413	440	483	424	451	630	325	192
22	442	e429	e398	486	421	423	493	376	409	522	293	189
23	440	414	1,140	461	389	671	579	376	379	466	277	191
24	451	694	1,200	e452	413	798	516	394	364	426	270	192
25	454	1,230	711	e448	448	581	499	358	352	396	263	201
26	425	727	600	e438	403	529	479	349	345	373	256	215
27	427	597	548	427	385	505	479	340	342	356	251	232
28	494	597	498	402	433	1,450	470	336	343	360	254	230
29	530	541	480	399	---	1,310	508	329	356	390	251	206
30	524	e562	470	433	---	900	683	324	366	401	380	202
31	482	---	455	441	---	741	---	319	---	361	853	---
TOTAL	16,424	15,508	16,841	16,787	12,105	18,008	19,463	12,652	14,594	16,074	10,529	6,913
MEAN	530	517	543	542	432	581	649	408	486	519	340	230
MAX	813	1,230	1,200	2,550	538	1,450	1,180	546	826	1,320	853	421
MIN	425	392	398	362	385	390	470	319	334	333	251	189
CFSM	2.58	2.52	2.65	2.64	2.11	2.83	3.16	1.99	2.37	2.53	1.66	1.12
IN.	2.98	2.81	3.06	3.05	2.20	3.27	3.53	2.30	2.65	2.92	1.91	1.25

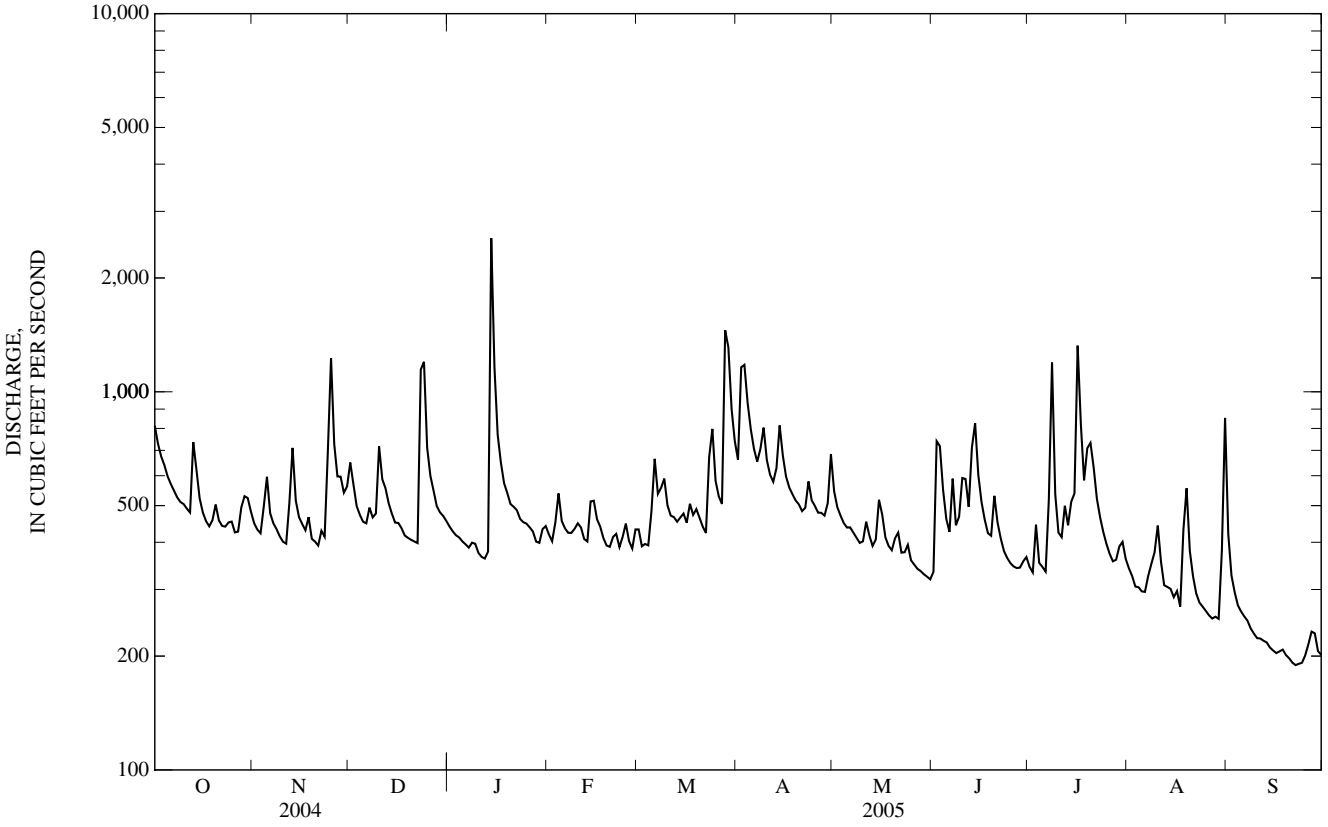
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005, BY WATER YEAR (WY)

MEAN	354	404	406	467	512	582	563	453	391	334	351	336
MAX	901	1,889	797	1,346	1,173	1,316	1,350	1,052	1,036	904	2,613	1,556
(WY)	(1991)	(1978)	(1958)	(1995)	(1998)	(1979)	(1983)	(1973)	(1992)	(1941)	(1940)	(2004)
MIN	111	124	146	140	188	222	236	220	158	111	93.7	99.5
(WY)	(2001)	(1932)	(1934)	(1940)	(2001)	(1988)	(1986)	(2001)	(1988)	(1930)	(1925)	(1954)

03161000 SOUTH FORK NEW RIVER NEAR JEFFERSON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005	
ANNUAL TOTAL	187,777		175,898			
ANNUAL MEAN	513		482		429	
HIGHEST ANNUAL MEAN					669	1949
LOWEST ANNUAL MEAN					215	2002
HIGHEST DAILY MEAN	10,500	Sep 8	2,550	Jan 14	27,700	Aug 14, 1940
LOWEST DAILY MEAN	173	Aug 20	189	Sep 22	65	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	184	Aug 17	195	Sep 19	72	Aug 21, 1925
MAXIMUM PEAK FLOW			4,050	Jan 14	52,800*	Aug 14, 1940
MAXIMUM PEAK STAGE			6.46	Jan 14	22.50	Aug 14, 1940
INSTANTANEOUS LOW FLOW			185	Sep 22	52*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	2.50		2.35		2.09	
ANNUAL RUNOFF (INCHES)	34.07		31.92		28.40	
10 PERCENT EXCEEDS	673		698		705	
50 PERCENT EXCEEDS	415		447		345	
90 PERCENT EXCEEDS	250		290		168	

* See REMARKS.
e Estimated.



03439000 FRENCH BROAD RIVER AT ROSMAN, NC

LOCATION.--Lat 35°08'36", long 82°49'29", Transylvania County, Hydrologic Unit 06010105, on left bank 50 ft upstream from bridge on U.S. Highway 178 at Rosman, 1.0 mi upstream from East Fork, and at mile 216.4.

DRAINAGE AREA.--67.9 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1935 to current year. Monthly discharge only for some periods published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1908(M). WSP 1910: 1936(M), 1938(M), 1939-40, 1942-43, WDR NC-93-1: 1993(M).

GAGE.--Water-stage recorder. Datum of gage is 2,173.83 ft above NGVD of 1929. Prior to June 30, 1909, nonrecording gage at site 500 ft downstream at different datum. Jan. 1, 1936, to July 6, 1937, nonrecording gage at present site and datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minimum discharge for period of record result of freezeup. Minimum daily discharge occurred several days in Sept. and Oct. 1954. Minimum discharge for current water year also occurred Sept. 25, 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 13.9 ft, from floodmarks.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	181	411	276	219	243	332	238	225	327	351	309
2	360	187	311	269	216	220	558	225	498	314	320	268
3	338	261	289	261	283	213	423	223	317	289	303	242
4	320	592	266	256	251	208	379	214	270	340	291	227
5	303	331	248	249	233	211	351	211	240	291	285	217
6	288	265	296	247	225	208	325	208	252	264	288	203
7	278	238	357	238	219	208	331	200	249	852	337	196
8	268	217	314	256	218	260	447	196	311	532	352	190
9	259	206	494	235	218	225	368	192	288	401	427	184
10	254	199	473	230	212	214	335	213	329	384	422	178
11	246	197	378	227	202	207	314	209	339	650	351	174
12	242	462	328	223	199	200	314	195	1,420	1,260	321	170
13	251	320	301	358	201	195	384	193	1,910	988	323	166
14	234	265	279	597	222	210	362	197	800	641	340	162
15	228	242	264	348	210	195	322	210	566	612	309	158
16	220	229	255	310	200	215	305	195	463	531	287	172
17	213	219	248	284	193	214	290	186	394	457	302	164
18	215	211	241	268	188	205	278	181	360	447	323	154
19	237	204	233	260	185	209	268	176	347	582	364	151
20	218	199	221	254	200	198	258	266	355	634	312	149
21	206	190	218	247	291	190	254	227	327	596	282	146
22	202	187	223	239	276	216	270	202	e302	527	270	145
23	204	199	1,160	230	234	357	280	190	e280	470	263	143
24	202	556	518	223	246	265	252	180	258	415	260	141
25	196	435	417	224	229	239	242	176	244	379	245	137
26	191	319	371	221	218	225	238	169	241	357	232	162
27	189	300	336	214	213	258	237	161	344	353	227	148
28	191	318	319	208	276	1,080	226	159	298	355	226	143
29	213	269	308	237	---	481	223	158	351	481	228	150
30	192	255	296	259	---	381	266	159	331	399	689	143
31	186	---	285	230	---	361	---	155	---	370	442	---
TOTAL	7,532	8,253	10,658	8,178	6,277	8,311	9,432	6,064	12,909	15,498	9,972	5,292
MEAN	243	275	344	264	224	268	314	196	430	500	322	176
MAX	388	592	1,160	597	291	1,080	558	266	1,910	1,260	689	309
MIN	186	181	218	208	185	190	223	155	225	264	226	137
CFSM	3.58	4.05	5.06	3.89	3.30	3.95	4.63	2.88	6.34	7.36	4.74	2.60
IN.	4.13	4.52	5.84	4.48	3.44	4.55	5.17	3.32	7.07	8.49	5.46	2.90

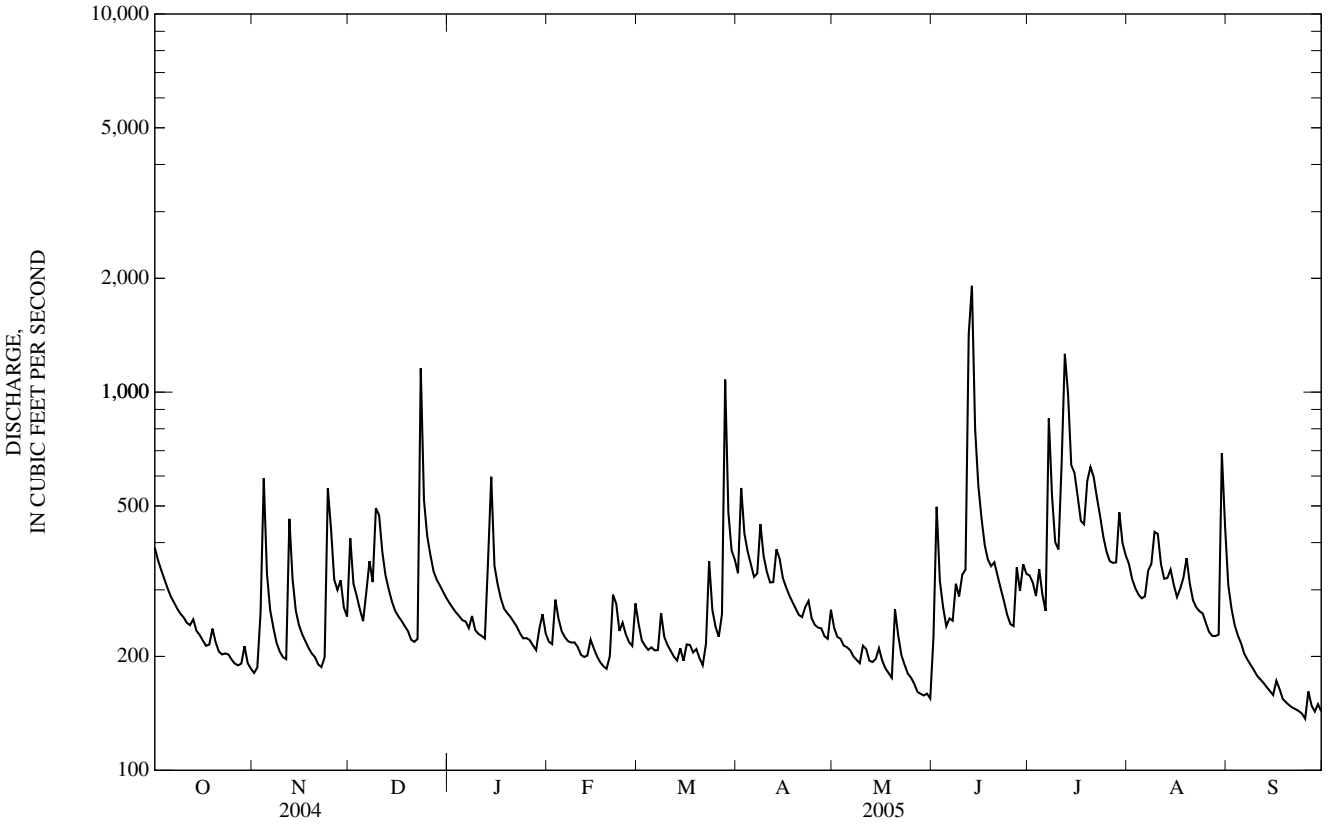
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1908 - 2005,@ BY WATER YEAR (WY)

MEAN	176	205	246	280	314	332	320	260	220	180	186	174
MAX	734	635	489	672	648	787	582	551	882	624	543	848
(WY)	(1965)	(1993)	(1993)	(1937)	(1939)	(1979)	(1983)	(1909)	(1909)	(1989)	(1994)	(2004)
MIN	42.2	56.7	72.6	72.0	130	135	108	114	79.8	75.8	65.3	43.6
(WY)	(1955)	(1955)	(1940)	(1981)	(1963)	(1988)	(1986)	(1941)	(1988)	(1986)	(1954)	(1954)

03439000 FRENCH BROAD RIVER AT ROSMAN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1908 - 2005[@]	
ANNUAL TOTAL	103,637		108,376			
ANNUAL MEAN	283		297		239	
HIGHEST ANNUAL MEAN					370	1949
LOWEST ANNUAL MEAN					136	1981
HIGHEST DAILY MEAN	5,330	Sep 8	1,910	Jun 13	5,630	Oct 4, 1964
LOWEST DAILY MEAN	118	Jul 22	137	Sep 25	37*	Sep 25, 1954
ANNUAL SEVEN-DAY MINIMUM	131	Aug 17	145	Sep 19	38	Sep 23, 1954
MAXIMUM PEAK FLOW			3,420	Jun 12	13,500	Oct 4, 1964
MAXIMUM PEAK STAGE			7.90	Jun 12	14.95	Oct 4, 1964
INSTANTANEOUS LOW FLOW			135*	Sep 24	23*	Jan 3, 1940
ANNUAL RUNOFF (CFSM)	4.17		4.37		3.52	
ANNUAL RUNOFF (INCHES)	56.78		59.38		47.83	
10 PERCENT EXCEEDS	413		438		413	
50 PERCENT EXCEEDS	208		252		191	
90 PERCENT EXCEEDS	144		187		88	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03441000 DAVIDSON RIVER NEAR BREVARD, NC

LOCATION.--Lat 35°16'23", long 82°42'21", Transylvania County, Hydrologic Unit 06010105, on right bank 150 ft upstream of bridge on State Highway 280, 2.1 mi downstream of Avery Creek, 3.3 mi northeast of Brevard, and at mile 2.2.

DRAINAGE AREA.--40.4 mi^2.

PERIOD OF RECORD.--October 1920 to September 1990, October 1993 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage Area. WSP 1336: 1921, 1922 (M), 1923, 1924-25(M), 1926, 1927(M), 1929-32(M).

GAGE.--Water-stage recorder. Datum of gage is 2,115.13 ft above NGVD of 1929 (levels by Tennesse Valley Authority). Prior to May 17, 1934, nonrecording gage at site 50 ft downstream at same datum. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1876 reached a stage of 11.9 ft, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	296	105	249	144	110	129	175	124	138	208	191	204
2	269	105	192	139	108	116	276	115	411	181	165	168
3	250	132	173	135	172	114	205	110	e240	192	152	149
4	229	444	159	131	145	112	180	107	e190	213	143	136
5	212	230	149	128	130	117	163	106	e160	167	156	127
6	201	169	176	125	125	113	152	106	e140	145	150	121
7	191	148	206	120	120	112	158	102	129	620	180	115
8	181	136	184	126	119	175	254	99	171	371	223	110
9	175	127	294	117	117	136	197	96	173	251	200	106
10	169	121	297	114	113	126	174	112	171	216	217	101
11	161	120	235	112	106	119	160	110	235	457	186	98
12	157	311	202	110	105	113	166	98	938	708	158	95
13	167	213	182	214	109	109	209	96	1,260	443	147	91
14	150	171	166	407	120	122	220	95	561	339	142	88
15	144	153	156	206	112	108	186	104	367	322	132	86
16	137	143	149	174	108	124	167	96	284	325	148	93
17	131	135	144	154	103	123	155	91	238	263	172	88
18	129	129	139	142	99	114	147	89	218	233	155	81
19	140	125	134	138	97	110	139	103	211	316	152	79
20	129	122	126	135	103	106	133	137	184	327	140	77
21	124	117	125	131	169	103	133	109	174	284	130	76
22	122	114	124	128	150	114	137	99	160	273	150	75
23	126	132	673	e120	127	205	140	93	147	250	152	73
24	120	410	311	e115	140	150	125	89	138	214	135	71
25	115	318	242	115	125	135	119	85	131	196	124	70
26	112	220	209	115	118	126	120	83	132	178	118	82
27	110	199	187	110	114	143	120	80	167	170	114	74
28	115	202	174	105	150	735	113	80	145	181	117	70
29	133	172	164	115	---	297	112	78	142	250	123	75
30	113	161	157	130	---	221	147	77	136	203	549	69
31	108	---	150	116	---	195	---	75	---	184	307	---
TOTAL	4,916	5,384	6,228	4,371	3,414	4,822	4,882	3,044	7,891	8,680	5,328	2,948
MEAN	159	179	201	141	122	156	163	98.2	263	280	172	98.3
MAX	296	444	673	407	172	735	276	137	1,260	708	549	204
MIN	108	105	124	105	97	103	112	75	129	145	114	69
CFSM	3.93	4.44	4.97	3.49	3.02	3.85	4.03	2.43	6.51	6.93	4.25	2.43
IN.	4.53	4.96	5.73	4.02	3.14	4.44	4.50	2.80	7.27	7.99	4.91	2.71

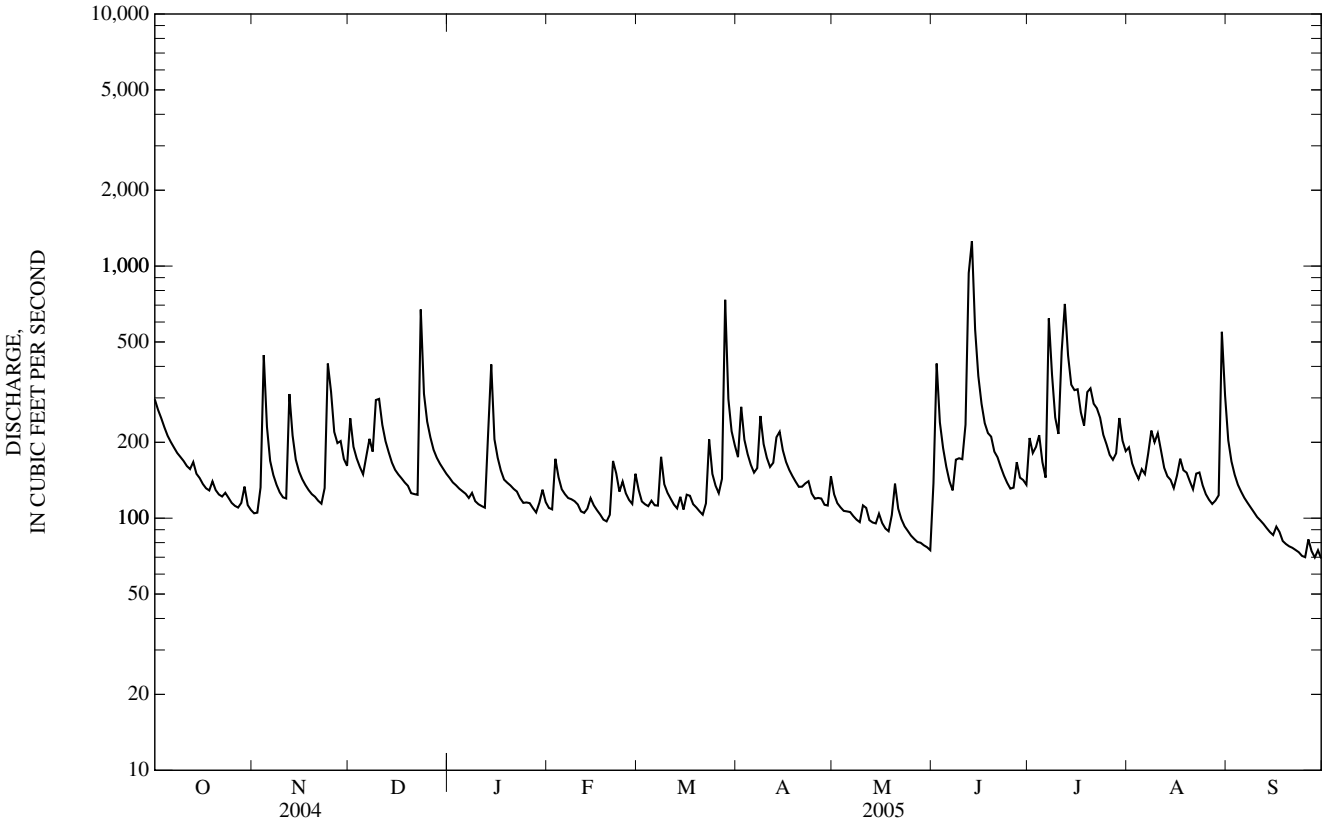
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005,@ BY WATER YEAR (WY)

MEAN	95.1	107	131	154	167	183	172	141	113	94.6	98.7	95.6
MAX	379	362	323	374	363	466	349	293	263	285	404	667
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1929)	(1957)	(1923)	(2005)	(1989)	(1928)	(2004)
MIN	18.2	24.5	31.7	37.8	66.5	74.1	57.7	54.6	37.9	37.2	24.0	17.5
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1925)	(1954)

03441000 DAVIDSON RIVER NEAR BREVARD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005[@]	
ANNUAL TOTAL	64,284		61,908			
ANNUAL MEAN	176		170		129	
HIGHEST ANNUAL MEAN					208	1949
LOWEST ANNUAL MEAN					70.6	1988
HIGHEST DAILY MEAN	3,940	Sep 8	1,260	Jun 13	3,940	Sep 8, 2004
LOWEST DAILY MEAN	51	Jul 24	69	Sep 30	14	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	59	Jul 18	73	Sep 24	15	Sep 25, 1954
MAXIMUM PEAK FLOW			2,020	Jun 12	e8,400	Aug 15, 1928
MAXIMUM PEAK STAGE			5.01	Jun 12	12.08	Aug 17, 1994
INSTANTANEOUS LOW FLOW			66	Sep 30	13	Oct 11, 1954
ANNUAL RUNOFF (CFSM)	4.35		4.20		3.20	
ANNUAL RUNOFF (INCHES)	59.19		57.00		43.43	
10 PERCENT EXCEEDS	282		252		229	
50 PERCENT EXCEEDS	115		139		101	
90 PERCENT EXCEEDS	74		98		42	

[@] See PERIOD OF RECORD.
e Estimated.



03443000 FRENCH BROAD RIVER AT BLANTYRE, NC

LOCATION.--Lat 35°17'57", long 82°37'26", Transylvania County, Hydrologic Unit 06010105, on left bank 40 ft upstream from bridge on Secondary Road 1503, 700 ft east of railroad at Blantyre, 3.5 mi downstream of Little River, and at mile 183.7.

DRAINAGE AREA.--296 mi^2.

PERIOD OF RECORD.--October 1920 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 923: 1921-23, 1929, 1933, 1935-36(M), 1938, 1940.

GAGE.--Water-stage recorder. Datum of gage is 2,060.32 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to July 5, 1930, nonrecording gage at same site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable diurnal fluctuation at low flow caused by power plant about 8 mi upstream from station. Maximum gage height for period of record, 25.81 ft, from floodmarks.

EXTREMES OUTSIDE PERIOD OF RECORD.--Since at least 1791, maximum stage 27.1 ft, July 16, 1916, from floodmarks (from studies by Tennessee Valley Authority).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,290	840	1,500	1,140	920	1,110	1,420	974	663	1,420	1,440	1,520
2	1,910	836	1,460	1,110	886	936	1,680	848	2,100	1,570	1,270	1,190
3	1,740	1,130	1,250	1,080	1,070	886	1,690	816	1,890	1,280	1,170	1,060
4	1,620	1,990	1,170	1,070	1,140	858	1,410	789	1,270	1,330	1,120	970
5	1,530	2,420	1,090	1,050	1,010	852	1,280	774	1,080	1,250	1,090	913
6	1,440	1,430	1,130	1,030	952	843	1,200	767	948	1,100	1,140	864
7	1,390	1,200	1,520	1,010	916	820	1,150	745	1,070	2,330	1,140	824
8	1,330	1,090	1,460	1,040	897	977	1,460	726	1,090	3,730	1,450	792
9	1,290	1,010	1,710	1,010	883	944	1,420	709	1,180	2,520	1,370	761
10	1,260	968	2,780	958	869	862	1,250	711	1,030	2,070	1,460	731
11	1,220	939	2,100	934	829	829	1,160	845	1,390	2,110	1,360	707
12	1,190	1,590	1,630	918	809	803	1,120	730	1,770	3,540	1,150	688
13	1,250	2,030	1,430	948	805	777	1,380	702	3,970	3,930	1,090	669
14	1,150	1,390	1,290	2,370	840	833	1,420	687	4,790	3,790	1,070	651
15	1,110	1,200	1,200	1,740	883	785	1,280	780	4,340	3,420	1,000	632
16	1,060	1,120	1,150	1,320	820	816	1,170	777	2,300	e2,610	1,040	654
17	1,030	1,060	1,110	1,190	794	892	1,100	693	1,570	e2,170	1,090	719
18	1,010	1,020	1,070	1,100	764	840	1,060	666	e1,320	e1,800	1,330	626
19	1,040	987	1,040	1,050	747	805	1,020	679	e1,300	e1,910	1,390	594
20	1,080	963	997	1,020	764	784	984	872	e1,300	e2,270	1,210	579
21	995	933	964	1,000	982	753	954	1,020	e1,400	e2,340	1,160	568
22	969	901	956	970	1,160	758	981	811	1,250	e2,120	1,110	560
23	963	936	2,530	936	955	1,330	1,080	738	1,100	e1,890	1,450	550
24	958	1,270	3,880	884	966	1,210	970	687	1,020	e1,670	1,270	540
25	936	2,150	2,740	885	948	1,000	911	650	960	e1,480	1,120	532
26	908	1,480	1,730	880	877	921	882	631	929	1,360	1,030	552
27	894	1,250	1,500	862	841	919	896	610	e2,700	1,280	980	600
28	885	1,350	1,370	831	1,040	2,990	855	593	e3,300	1,260	952	541
29	971	1,200	1,290	843	---	3,490	834	586	e2,200	1,460	968	552
30	915	1,110	1,230	1,100	---	1,930	909	584	1,600	1,680	1,870	540
31	868	---	1,190	1,030	---	1,490	---	576	---	1,380	2,690	---
TOTAL	37,202	37,793	47,467	33,309	25,367	34,043	34,926	22,776	52,830	64,070	38,980	21,679
MEAN	1,200	1,260	1,531	1,074	906	1,098	1,164	735	1,761	2,067	1,257	723
MAX	2,290	2,420	3,880	2,370	1,160	3,490	1,690	1,020	4,790	3,930	2,690	1,520
MIN	868	836	956	831	747	753	834	576	663	1,100	952	532
CFSM	4.05	4.26	5.17	3.63	3.06	3.71	3.93	2.48	5.95	6.98	4.25	2.44
IN.	4.68	4.75	5.97	4.19	3.19	4.28	4.39	2.86	6.64	8.05	4.90	2.72

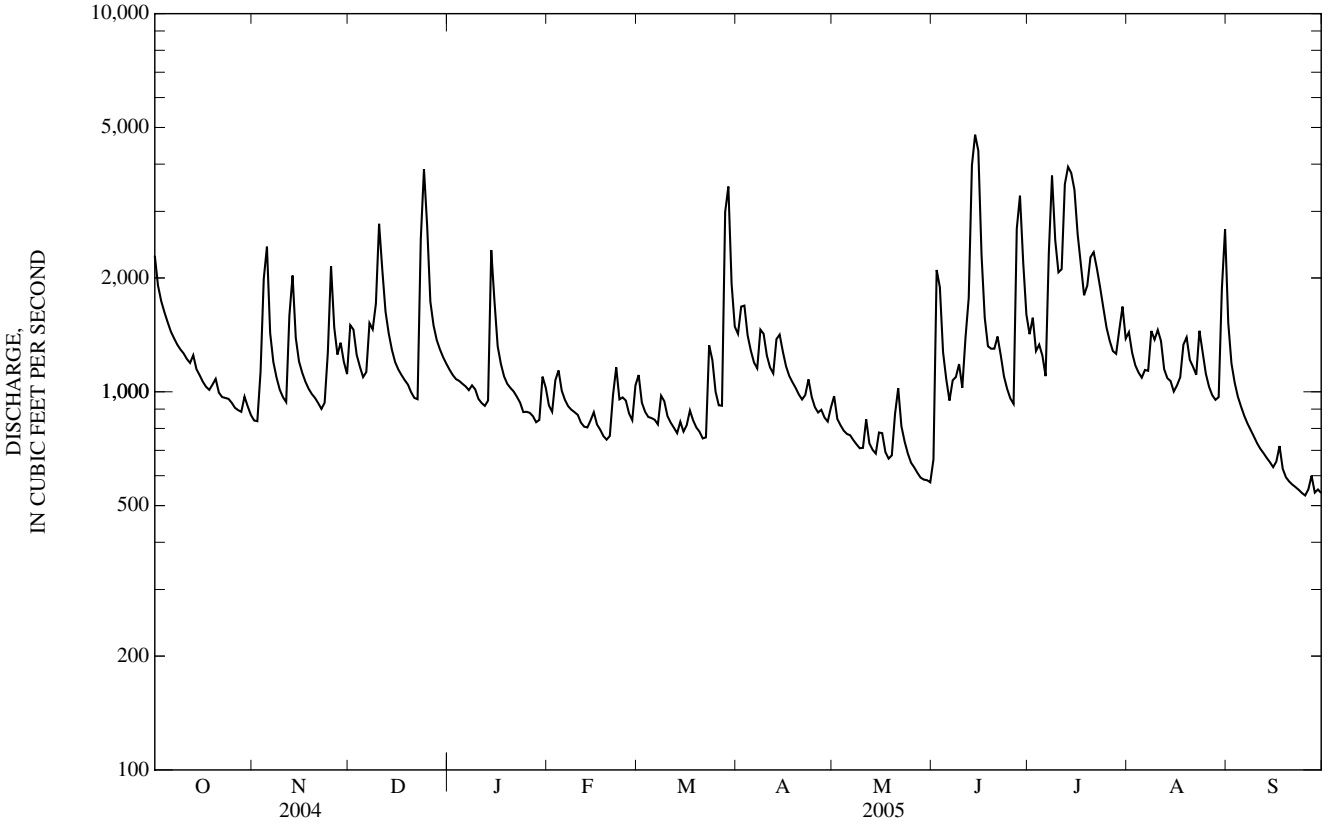
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005, BY WATER YEAR (WY)

MEAN	757	845	1,029	1,191	1,265	1,376	1,290	1,055	879	741	772	722
MAX	3,504	2,486	2,142	2,783	2,735	3,169	2,509	2,339	1,872	2,214	2,363	3,779
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1936)	(1973)	(1989)	(1949)	(1994)	(2004)
MIN	157	235	301	260	561	550	473	434	278	290	191	169
(WY)	(1955)	(1955)	(1956)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1925)	(1925)	(1954)

03443000 FRENCH BROAD RIVER AT BLANTYRE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005	
ANNUAL TOTAL	435,310		450,442			
ANNUAL MEAN	1,189		1,234		992	
HIGHEST ANNUAL MEAN					1,564	1949
LOWEST ANNUAL MEAN					534	1988
HIGHEST DAILY MEAN	13,000	Sep 9	4,790	Jun 14	22,700	Oct 5, 1964
LOWEST DAILY MEAN	457	Jun 12	532	Sep 25	123	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	482	Jun 6	551	Sep 24	133	Oct 8, 1954
MAXIMUM PEAK FLOW			4,810	Jun 14	30,000	Oct 5, 1964
MAXIMUM PEAK STAGE			17.53	Jun 14	25.81*	Sep 9, 2004
INSTANTANEOUS LOW FLOW			518	Sep 30	119	Oct 1, 1954
ANNUAL RUNOFF (CFSM)	4.02		4.17		3.35	
ANNUAL RUNOFF (INCHES)	54.71		56.61		45.54	
10 PERCENT EXCEEDS	1,760		1,950		1,710	
50 PERCENT EXCEEDS	863		1,060		806	
90 PERCENT EXCEEDS	562		723		356	

* See REMARKS.
e Estimated.



03446000 MILLS RIVER NEAR MILLS RIVER, NC

LOCATION.--Lat 35°23'53", long 82°35'42", Henderson County, Hydrologic Unit 06010105, on right bank 1.5 mi downstream of confluence of North and South Forks, 1.8 mi northwest of Mills River, 4.2 mi northwest of Horseshoe, and at mile 4.6.

DRAINAGE AREA.--66.7 mi^2.

PERIOD OF RECORD.--September 1924 to September 1926, October 1933 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 923: 1935, 1937, 1939. WSP 1003: 1938, 1940-42. WSP 1143: 1940(P). WSP 1276: 1926.

GAGE.--Water-stage recorder. Datum of gage is 2,088.47 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to Oct. 1, 1926, nonrecording gage at site 500 ft upstream at 2,091.44 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. City of Hendersonville diverted about 6.1 ft^3/s from North Fork and Bradley Creek for municipal water supply. Maximum discharge for period of record, from rating curve extended above 6,200 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record result of freezeup. Minimum discharge for current water year also occurred June 1, Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	453	163	325	195	149	160	244	175	151	248	219	299
2	414	163	276	190	146	144	274	160	377	261	202	251
3	385	180	255	183	177	141	242	154	277	229	189	220
4	359	449	238	180	177	139	225	150	241	301	181	201
5	336	317	225	175	160	147	212	149	203	306	173	189
6	318	242	224	173	156	148	203	148	184	251	172	179
7	305	217	238	167	152	142	201	144	183	699	224	170
8	289	201	227	174	150	173	260	141	209	549	272	164
9	279	190	300	162	150	158	239	137	207	395	237	156
10	269	182	335	159	146	150	218	140	186	331	213	151
11	259	178	284	156	140	145	206	145	217	372	197	146
12	252	309	258	153	138	140	217	134	486	541	181	141
13	256	263	241	182	138	136	259	135	996	438	175	137
14	240	228	225	416	144	141	293	132	544	373	170	132
15	232	212	214	264	142	133	263	144	393	339	160	128
16	222	201	209	229	136	142	240	136	318	327	158	130
17	215	193	204	208	132	151	224	127	272	313	240	132
18	212	186	196	193	128	140	214	125	249	331	287	124
19	216	181	192	188	126	138	204	127	240	333	294	118
20	210	177	180	184	133	133	196	215	238	389	233	116
21	200	172	180	179	172	130	189	179	232	379	325	113
22	193	169	179	172	176	136	200	153	211	325	244	112
23	197	183	519	163	151	235	209	140	195	288	240	109
24	194	346	368	162	163	193	190	130	180	261	219	107
25	185	364	297	162	153	173	182	123	170	243	199	105
26	179	282	263	157	146	162	177	120	173	228	188	113
27	176	255	240	151	142	174	175	117	378	216	178	110
28	175	263	226	146	170	652	165	117	282	226	171	105
29	190	233	217	152	---	398	162	114	335	281	175	105
30	173	222	208	171	---	312	180	110	280	241	546	105
31	167	---	202	157	---	270	---	107	---	225	419	---
TOTAL	7,750	6,921	7,745	5,703	4,193	5,736	6,463	4,328	8,607	10,239	7,081	4,368
MEAN	250	231	250	184	150	185	215	140	287	330	228	146
MAX	453	449	519	416	177	652	293	215	996	699	546	299
MIN	167	163	179	146	126	130	162	107	151	216	158	105
CFSM	3.75	3.46	3.75	2.76	2.25	2.77	3.23	2.09	4.30	4.95	3.42	2.18
IN.	4.32	3.86	4.32	3.18	2.34	3.20	3.60	2.41	4.80	5.71	3.95	2.44

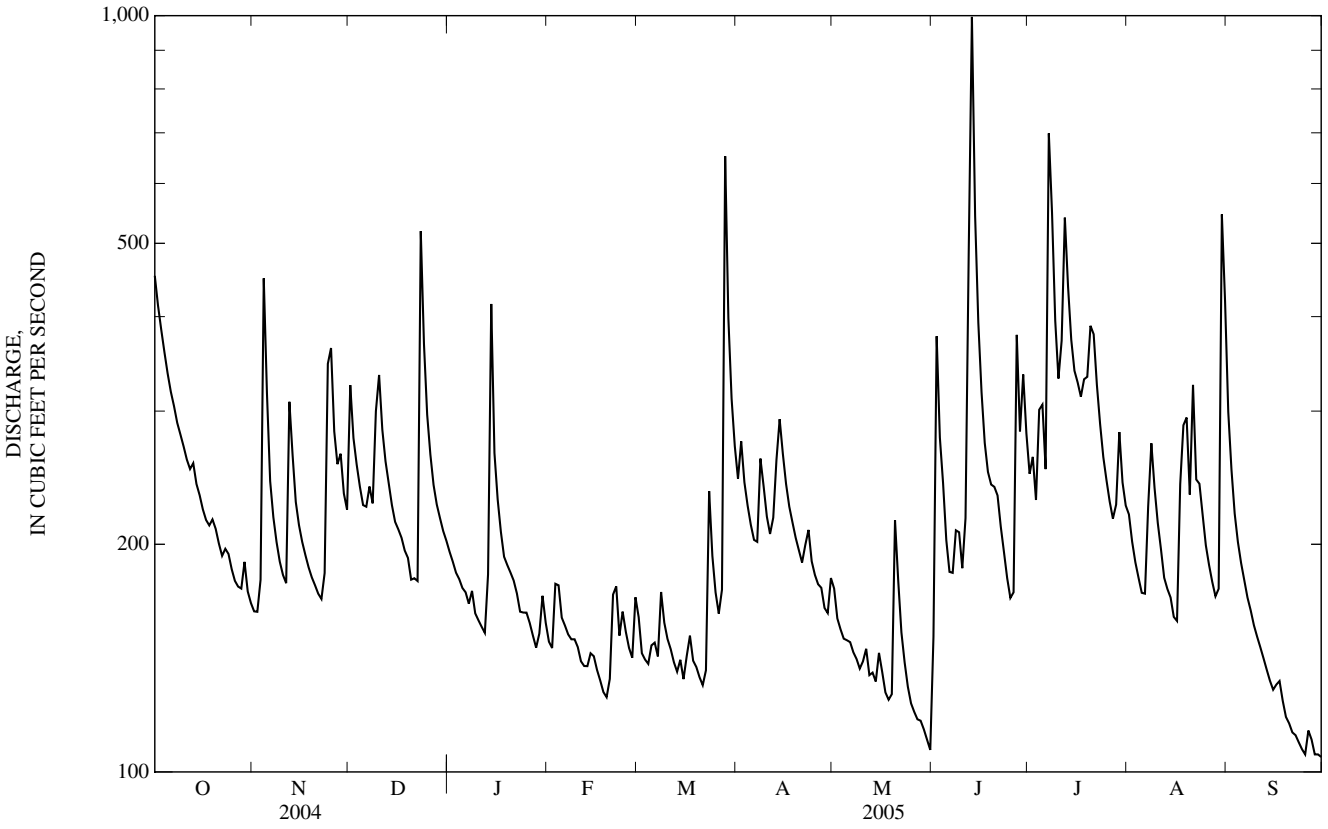
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2005,@ BY WATER YEAR (WY)

MEAN	125	143	164	196	217	241	233	188	152	124	128	123
MAX	465	510	338	534	499	520	468	425	359	356	506	729
(WY)	(1965)	(1980)	(1962)	(1937)	(1998)	(1979)	(1957)	(2003)	(1992)	(1989)	(1940)	(2004)
MIN	24.8	35.2	40.7	43.5	88.9	87.5	79.7	76.2	41.7	38.6	25.4	22.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1988)	(1988)	(1988)	(1925)	(1925)

03446000 MILLS RIVER NEAR MILLS RIVER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1925 - 2005@	
ANNUAL TOTAL	79,314		79,134			
ANNUAL MEAN	217		217		169	
HIGHEST ANNUAL MEAN					272	1949
LOWEST ANNUAL MEAN					86.3	2002
HIGHEST DAILY MEAN	4,430	Sep 8	996	Jun 13	4,470	Aug 13, 1940
LOWEST DAILY MEAN	70	Aug 28	105	Sep 25	18	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	76	Aug 17	107	Sep 24	19	Sep 24, 1954
MAXIMUM PEAK FLOW			1,310	Jun 13	13,400*	Aug 30, 1940
MAXIMUM PEAK STAGE			4.34	Jun 13	13.62	Aug 30, 1940
INSTANTANEOUS LOW FLOW			103*	May 31	16*	Dec 24, 1943
ANNUAL RUNOFF (CFSM)	3.25		3.25		2.54	
ANNUAL RUNOFF (INCHES)	44.24		44.13		34.52	
10 PERCENT EXCEEDS	337		329		302	
50 PERCENT EXCEEDS	156		190		136	
90 PERCENT EXCEEDS	100		134		54	

* See REMARKS.
@ See PERIOD OF RECORD.



03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC

LOCATION.--Lat 35°25'39", long 82°32'53", Henderson County, Hydrologic Unit 06010105, on right bank 30 ft downstream of bridge on Secondary Road 1419, 0.4 mi downstream from McDowell Creek, 2.9 mi west of Fletcher, and at river mile 165.3.

DRAINAGE AREA.--640 mi^2.

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2001-2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,055 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum discharge for current water year also occurred on Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,760	1,360	2,390	1,820	1,510	2,000	2,380	1,600	1,040	2,310	2,230	2,540
2	3,140	1,330	2,400	1,760	1,440	1,640	2,530	1,410	2,650	2,420	1,980	1,910
3	2,790	1,700	2,070	1,710	1,710	1,520	2,670	1,340	2,910	2,130	1,780	1,680
4	2,590	3,220	1,920	1,680	1,850	1,470	2,280	1,300	2,070	2,220	1,670	1,540
5	2,410	4,090	1,820	1,650	1,640	1,450	2,070	1,280	1,740	2,360	1,650	1,450
6	2,270	2,580	1,790	1,620	1,540	1,430	1,930	1,270	1,610	1,960	1,680	1,370
7	2,180	2,010	2,200	1,580	1,470	1,390	1,860	1,240	1,810	5,020	1,970	1,300
8	2,100	1,820	2,220	1,610	1,440	1,560	2,220	1,210	1,780	7,010	2,920	1,250
9	2,040	1,680	2,920	1,610	1,420	1,580	2,360	1,180	2,040	5,570	2,440	1,210
10	1,990	1,590	4,380	1,530	1,410	1,450	2,040	1,160	1,650	3,230	2,240	1,160
11	1,930	1,540	3,610	1,480	1,350	1,390	1,880	1,310	2,000	3,480	2,100	1,120
12	1,870	2,550	2,670	1,450	1,310	1,350	1,860	1,220	2,480	5,800	1,820	1,090
13	1,980	3,270	2,340	1,480	1,290	1,300	2,270	1,170	5,590	5,880	1,680	1,060
14	1,860	2,340	2,120	4,290	1,340	1,450	2,500	1,120	5,680	5,610	1,630	1,040
15	1,770	2,000	1,960	3,280	1,410	1,370	2,230	1,190	5,540	5,280	1,630	1,010
16	1,700	1,850	1,850	2,280	1,330	1,370	1,990	1,270	4,720	4,260	1,520	1,010
17	1,630	1,760	1,770	1,990	1,280	1,530	1,850	1,160	2,530	3,410	1,710	1,120
18	1,590	1,690	1,730	1,810	1,240	1,460	1,760	1,090	2,080	3,450	2,080	1,030
19	1,610	1,620	1,680	1,720	1,200	1,370	1,690	1,090	2,070	2,940	2,670	957
20	1,690	1,570	1,610	1,680	1,240	1,330	1,630	1,640	2,070	3,280	1,950	919
21	1,600	1,530	1,560	1,650	1,680	1,280	1,570	1,680	2,270	3,370	2,000	904
22	1,550	1,490	1,540	1,590	2,000	1,280	1,620	1,380	1,950	3,040	1,660	889
23	1,540	1,540	3,730	1,540	1,640	2,090	1,820	1,240	1,740	2,830	2,080	877
24	1,580	2,120	5,080	1,440	1,600	2,090	1,660	1,150	1,590	2,460	2,090	856
25	1,520	3,380	4,670	1,450	1,580	1,690	1,530	1,080	1,500	2,250	1,690	838
26	1,460	2,550	2,940	1,440	1,460	1,560	1,470	1,030	1,500	2,060	1,520	861
27	1,430	2,090	2,380	1,410	1,390	1,540	1,500	1,010	5,600	1,950	1,440	942
28	1,420	2,170	2,170	1,370	1,740	5,010	1,430	992	6,240	2,000	1,380	874
29	1,520	2,010	2,060	1,360	---	5,650	1,390	980	3,670	2,380	1,390	856
30	1,490	1,850	1,960	1,680	---	4,050	1,460	968	2,830	2,500	2,890	858
31	1,410	---	1,890	1,710	---	2,570	---	970	---	2,420	3,730	---
TOTAL	60,420	62,300	75,430	54,670	41,510	58,220	57,450	37,730	82,950	104,880	61,220	34,521
MEAN	1,949	2,077	2,433	1,764	1,482	1,878	1,915	1,217	2,765	3,383	1,975	1,151
MAX	4,760	4,090	5,080	4,290	2,000	5,650	2,670	1,680	6,240	7,010	3,730	2,540
MIN	1,410	1,330	1,540	1,360	1,200	1,280	1,390	968	1,040	1,950	1,380	838
CFSM	3.05	3.24	3.80	2.76	2.32	2.93	2.99	1.90	4.32	5.29	3.09	1.80
IN.	3.51	3.62	4.38	3.18	2.41	3.38	3.34	2.19	4.82	6.10	3.56	2.01

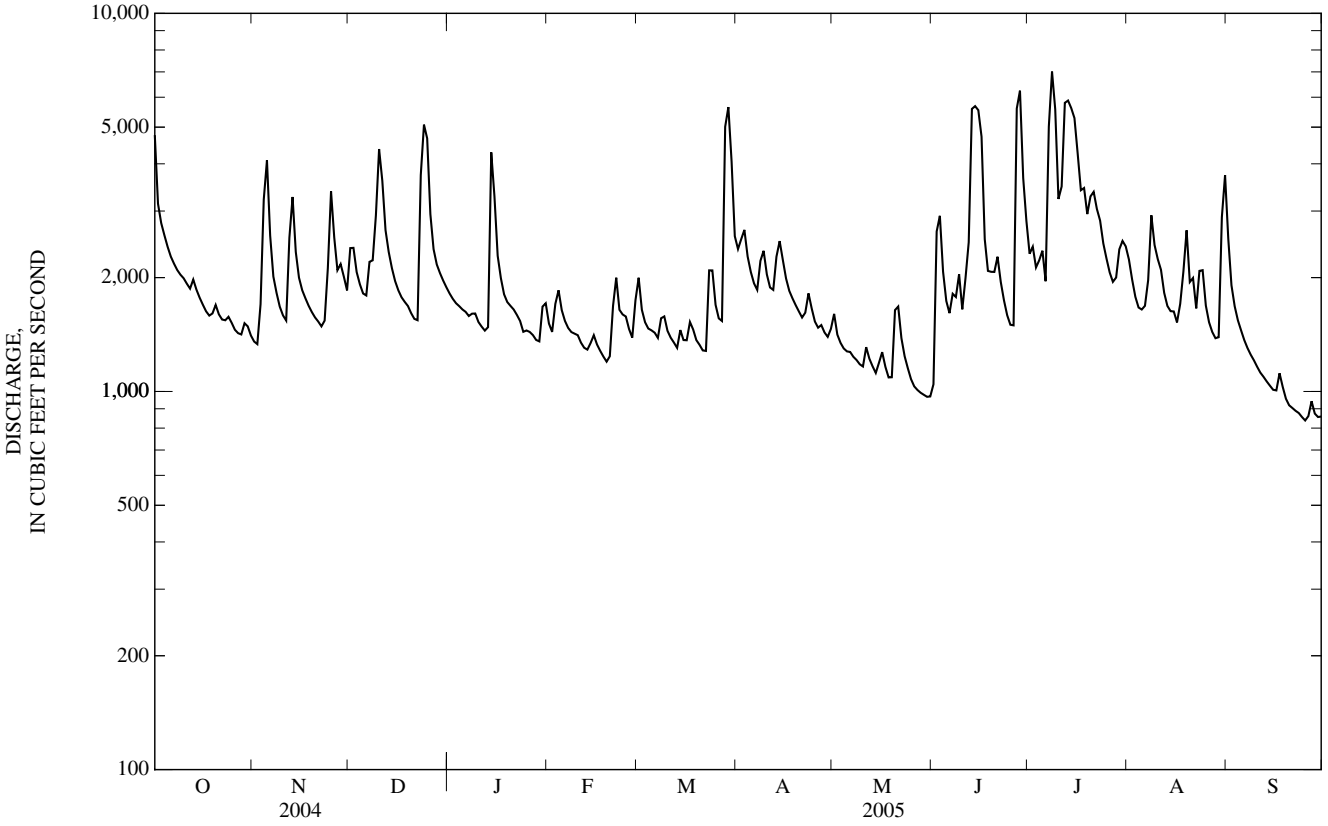
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	1,158	1,633	1,978	1,398	1,760	1,798	1,826	1,841	1,821	1,738	1,252	2,453
MAX	1,949	2,311	2,433	1,764	2,499	2,480	2,706	3,663	2,765	3,383	2,076	7,541
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2003)	(2004)
MIN	587	522	806	1,149	1,130	1,230	1,319	1,217	801	513	346	787
(WY)	(2002)	(2002)	(2002)	(2002)	(2002)	(2004)	(2004)	(2005)	(2002)	(2002)	(2002)	(2001)

03447687 FRENCH BROAD RIVER NEAR FLETCHER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	776,419		731,301			
ANNUAL MEAN	2,121		2,004		1,785	
HIGHEST ANNUAL MEAN					2,145	2003
LOWEST ANNUAL MEAN					923	2002
HIGHEST DAILY MEAN	23,800	Sep 9	7,010	Jul 8	23,800	Sep 9, 2004
LOWEST DAILY MEAN	769	Aug 23	838	Sep 25	201	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	805	Aug 17	869	Sep 24	221	Sep 7, 2002
MAXIMUM PEAK FLOW			7,390	Jul 7	25,500	Sep 8, 2004
MAXIMUM PEAK STAGE			10.84	Jul 7	20.13	Sep 8, 2004
INSTANTANEOUS LOW FLOW			829*	Sep 26	193	Sep 12, 2002
ANNUAL RUNOFF (CFSM)	3.31		3.13		2.79	
ANNUAL RUNOFF (INCHES)	45.13		42.51		37.90	
10 PERCENT EXCEEDS	3,110		3,220		2,940	
50 PERCENT EXCEEDS	1,480		1,680		1,440	
90 PERCENT EXCEEDS	981		1,180		595	

* See REMARKS.



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC

LOCATION.--Lat 35°28'54", long 82°38'05", Buncombe County, Hydrologic Unit 06010105, on right bank 70 ft below trail footbridge, 300 ft downstream from culvert under Bent Creek Gap Road, 0.4 mi west of Lake Powhatan, and at Bent Creek Research Station well cluster number 2.

DRAINAGE AREA.--1.03 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 2004 to November 2005 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 2,177.77 ft above NGVD of 1929 (levels by North Carolina Department of Environment and Natural Resources). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for 2005 water year also occurred Sept. 24, 25. Minimum discharge for 2006 water year also occurred Oct. 18.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	e1.5	1.8	1.7	1.3	0.58	e1.0	1.7
2	---	---	---	---	---	e1.6	1.4	1.8	0.95	0.62	e1.1	3.9
3	---	---	---	---	---	e1.6	1.3	1.6	0.90	0.71	e1.1	2.0
4	---	---	---	---	---	e1.5	1.2	1.5	1.5	0.68	0.87	1.5
5	---	---	---	---	---	e1.5	1.2	1.5	0.82	0.65	0.92	1.3
6	---	---	---	---	---	e1.6	1.1	1.4	0.72	0.80	0.83	1.7
7	---	---	---	---	---	e1.5	1.1	1.3	0.68	0.75	0.78	17
8	---	---	---	---	---	e1.5	1.1	1.3	0.71	0.71	0.79	24
9	---	---	---	---	---	e1.5	0.98	1.7	0.61	0.76	0.74	7.4
10	---	---	---	---	---	e1.4	0.92	1.3	0.54	0.79	0.70	5.3
11	---	---	---	---	---	e1.4	1.2	1.1	0.45	0.84	2.0	5.2
12	---	---	---	---	---	e1.3	2.5	0.97	0.55	0.88	2.2	4.5
13	---	---	---	---	---	e1.3	7.5	1.3	0.81	0.93	1.4	4.6
14	---	---	---	---	---	e1.4	4.2	1.2	0.72	0.81	1.1	4.1
15	---	---	---	---	---	e1.5	2.5	0.95	2.0	0.68	1.0	4.0
16	---	---	---	---	---	e1.6	2.0	0.82	1.5	0.63	0.89	9.2
17	---	---	---	---	---	e1.4	1.8	0.82	1.5	0.81	0.85	e56
18	---	---	---	---	---	1.6	1.6	0.77	1.5	0.85	0.81	4.7
19	---	---	---	---	---	1.4	1.5	0.86	0.99	0.71	0.79	3.3
20	---	---	---	---	---	1.4	1.3	0.93	0.76	0.68	0.77	2.5
21	---	---	---	---	---	e1.4	1.2	0.71	0.81	0.63	1.00	2.2
22	---	---	---	---	---	e1.2	1.1	0.87	0.85	0.62	0.99	2.1
23	---	---	---	---	---	1.1	1.2	1.1	0.72	0.59	0.91	2.2
24	---	---	---	---	---	1.1	1.3	0.88	0.67	0.64	0.83	2.1
25	---	---	---	---	---	0.99	1.2	0.67	0.89	0.63	0.80	2.1
26	---	---	---	---	---	0.96	2.8	0.69	0.90	0.62	0.78	2.1
27	---	---	---	---	---	0.91	2.2	0.79	0.75	2.5	0.74	3.7
28	---	---	---	---	---	0.87	1.9	0.69	0.69	1.6	0.74	7.9
29	---	---	---	---	---	0.80	1.8	0.62	0.61	e1.0	1.5	4.5
30	---	---	---	---	---	0.88	1.7	0.91	0.60	e1.2	2.3	3.9
31	---	---	---	---	---	2.1	---	2.0	---	e1.0	1.9	---
TOTAL	---	---	---	---	---	41.81	54.60	34.75	27.00	25.90	33.13	196.7
MEAN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX	---	---	---	---	---	2.1	7.5	2.0	2.0	2.5	2.3	56
MIN	---	---	---	---	---	0.80	0.92	0.62	0.45	0.58	0.70	1.3
CFSM	---	---	---	---	---	1.31	1.77	1.09	0.87	0.81	1.04	6.37
IN.	---	---	---	---	---	1.51	1.97	1.26	0.98	0.94	1.20	7.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2004, BY WATER YEAR (WY)

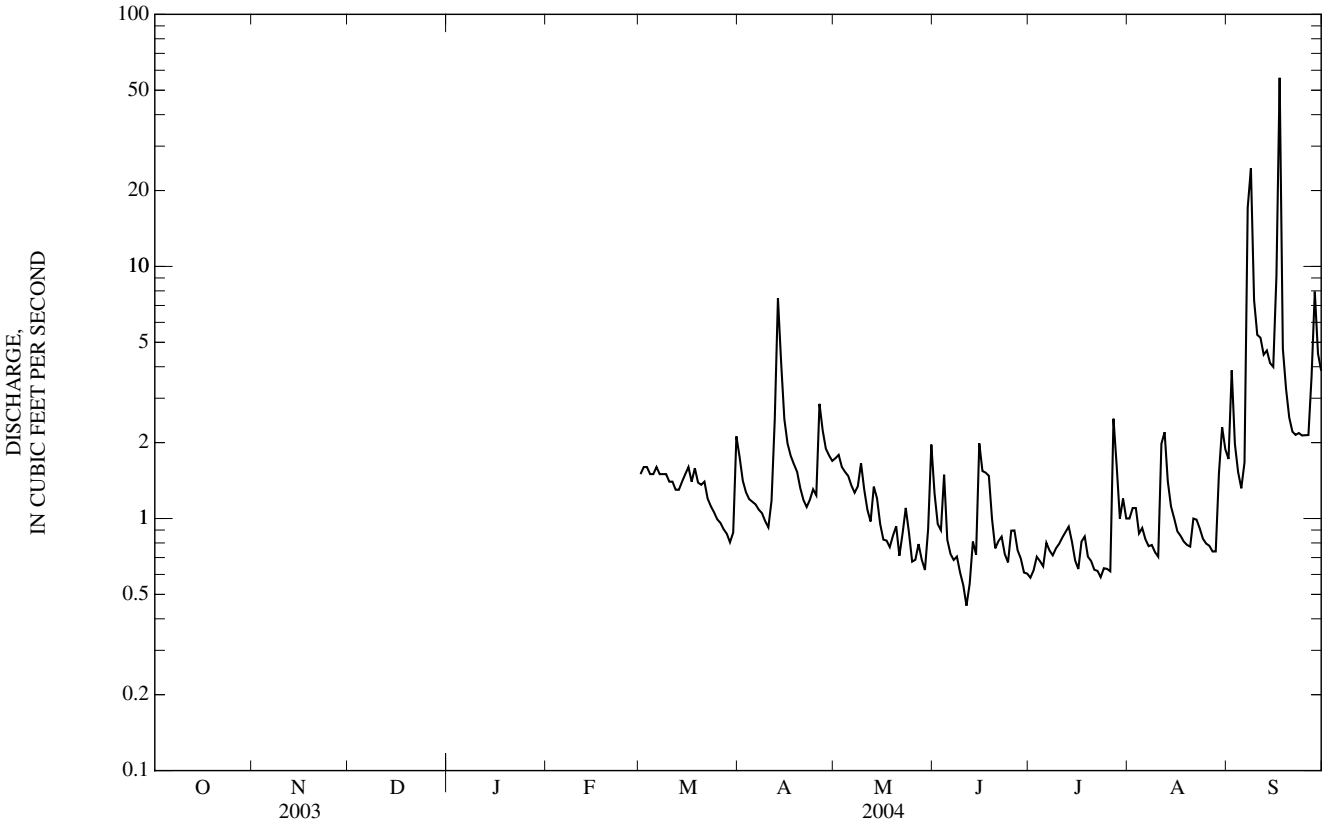
MEAN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
MAX	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)
MIN	---	---	---	---	---	1.35	1.82	1.12	0.90	0.84	1.07	6.56
(WY)	---	---	---	---	---	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)

SUMMARY STATISTICS FOR 2004 WATER YEAR

INSTANTANEOUS PEAK FLOW	NOT DETERMINED	
INSTANTANEOUS PEAK STAGE	4.91	Sep 17
INSTANTANEOUS LOW FLOW	0.34	Jun 12

e Estimated.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	1.9	3.1	1.8	1.6	1.8	2.3	1.6	1.8	2.6	2.2	1.7
2	3.0	2.0	2.6	1.8	1.5	1.7	2.6	1.5	2.4	2.2	2.0	1.5
3	2.8	2.2	2.5	1.7	1.7	1.6	2.2	1.5	1.8	2.0	1.8	1.4
4	2.7	7.1	2.4	1.7	1.5	1.5	2.1	1.4	1.6	1.9	1.7	1.3
5	2.5	3.6	2.3	1.7	1.5	1.5	2.0	1.4	1.4	1.7	1.7	1.3
6	2.5	2.8	2.3	1.8	1.4	1.5	1.9	1.4	1.4	1.6	1.7	1.2
7	2.4	2.5	2.3	1.7	1.4	1.5	2.0	1.4	1.3	8.4	2.2	1.2
8	2.3	2.3	2.2	1.7	1.4	1.7	2.1	1.4	1.6	4.2	2.6	1.2
9	2.3	2.2	3.2	1.6	1.5	1.5	1.9	1.4	1.4	2.8	2.1	1.1
10	2.3	2.1	2.9	1.6	1.4	1.5	1.8	1.7	1.4	2.3	1.9	1.1
11	2.2	2.1	2.6	1.6	1.4	1.4	1.7	1.6	1.4	3.1	1.7	1.1
12	2.3	3.4	2.5	1.6	1.4	1.4	1.9	1.4	4.0	2.8	1.6	1.1
13	2.4	2.6	2.4	2.8	1.5	1.4	2.2	1.4	4.4	2.6	1.6	1.2
14	2.2	2.4	2.2	3.9	1.5	1.4	2.6	1.5	2.6	2.3	1.5	1.2
15	2.2	2.3	2.2	2.5	1.4	1.4	2.2	1.5	2.0	2.2	1.4	1.2
16	2.1	2.3	2.2	2.2	1.4	1.5	2.0	1.4	1.7	2.1	1.5	1.3
17	2.0	2.2	2.1	2.0	1.3	1.6	1.9	1.4	1.6	1.9	1.5	1.2
18	2.1	2.1	2.1	1.9	1.3	1.4	1.8	1.3	1.7	1.9	1.7	1.2
19	2.4	2.1	2.1	1.9	1.3	1.4	1.8	1.4	2.4	3.1	1.5	1.1
20	2.1	2.1	2.0	1.9	1.4	1.3	1.6	2.7	2.2	4.2	1.5	1.1
21	2.1	2.0	2.0	1.8	2.2	1.3	1.5	1.7	1.9	3.7	1.4	1.1
22	2.0	2.1	2.2	1.8	1.8	1.6	1.6	1.6	1.7	2.8	1.5	1.1
23	2.1	2.3	5.6	1.6	1.7	2.5	1.8	1.5	1.5	2.3	1.5	1.1
24	2.2	5.9	3.0	1.7	1.8	1.9	1.7	1.5	1.4	2.1	1.4	1.1
25	2.0	4.3	2.5	1.7	1.6	1.8	1.6	1.4	1.2	2.0	1.3	1.1
26	1.9	3.2	2.3	1.7	1.5	1.6	1.6	1.4	1.4	1.9	1.3	1.3
27	2.0	3.0	2.1	1.6	1.5	2.4	1.6	1.3	2.9	3.2	1.3	1.2
28	2.2	2.8	2.0	1.5	2.1	8.0	1.5	1.4	10	2.6	1.2	1.1
29	2.4	2.5	2.0	1.7	---	3.6	1.5	1.3	6.7	3.3	1.3	1.2
30	2.1	2.5	1.9	1.8	---	2.7	1.7	1.3	3.3	2.7	4.4	1.1
31	2.0	---	1.8	1.7	---	2.4	---	1.2	---	2.5	2.2	---
TOTAL	71.0	82.9	75.6	58.0	43.0	59.8	56.7	45.9	72.1	85.0	54.2	36.1
MEAN	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	1.20
MAX	3.2	7.1	5.6	3.9	2.2	8.0	2.6	2.7	10	8.4	4.4	1.7
MIN	1.9	1.9	1.8	1.5	1.3	1.3	1.5	1.2	1.2	1.6	1.2	1.1
CFSM	2.22	2.68	2.37	1.82	1.49	1.87	1.83	1.44	2.33	2.66	1.70	1.17
IN.	2.56	2.99	2.73	2.09	1.55	2.16	2.05	1.66	2.60	3.07	1.96	1.30

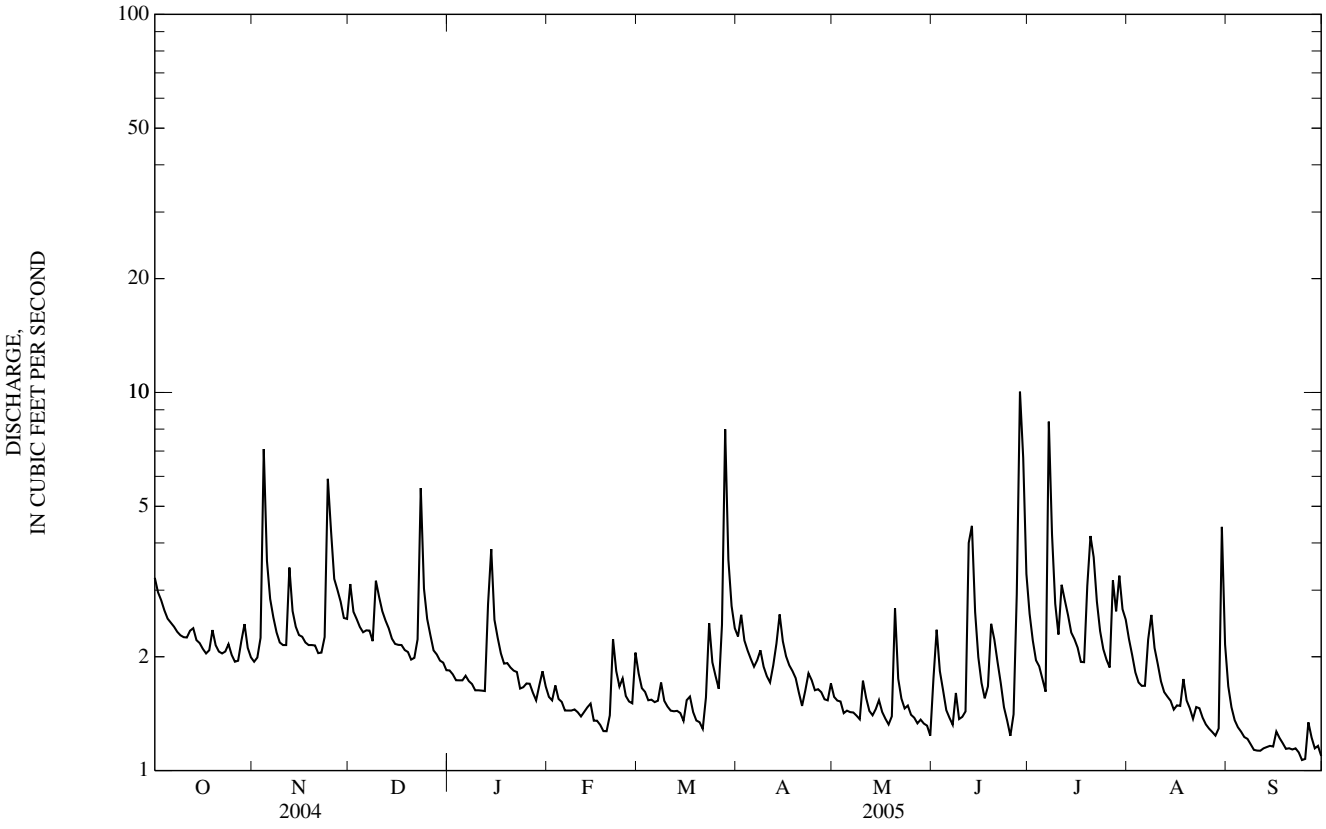
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	2.29	2.76	2.44	1.87	1.54	1.64	1.85	1.30	1.65	1.79	1.41	3.88
MAX	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	6.56
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	2.29	2.76	2.44	1.87	1.54	1.35	1.82	1.12	0.90	0.84	1.07	1.20
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL			740.3			
ANNUAL MEAN			2.03		2.03	
HIGHEST ANNUAL MEAN					2.03	2005
LOWEST ANNUAL MEAN					2.03	2005
HIGHEST DAILY MEAN	56	Sep 17	10	Jun 28	56	Sep 17, 2004
LOWEST DAILY MEAN	0.45	Jun 11	1.1	Sep 9	0.45	Jun 11, 2004
ANNUAL SEVEN-DAY MINIMUM	0.61	Jun 6	1.1	Sep 19	0.61	Jun 6, 2004
MAXIMUM PEAK FLOW			63	Jun 28	NOT DETERMINED	
MAXIMUM PEAK STAGE			3.19	Jun 28	4.91	Sep 17, 2004
INSTANTANEOUS LOW FLOW			0.98*	Sep 23	0.34	Jun 12, 2004
ANNUAL RUNOFF (CFSM)			1.97		1.97	
ANNUAL RUNOFF (INCHES)			26.74		26.75	
10 PERCENT EXCEEDS			2.8		2.8	
50 PERCENT EXCEEDS			1.8		1.8	
90 PERCENT EXCEEDS			1.3		1.3	

* See REMARKS.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	0.92	---	---	---	---	---	---	---	---	---	---
2	1.1	0.90	---	---	---	---	---	---	---	---	---	---
3	1.1	0.90	---	---	---	---	---	---	---	---	---	---
4	1.1	0.92	---	---	---	---	---	---	---	---	---	---
5	1.1	0.92	---	---	---	---	---	---	---	---	---	---
6	2.7	0.92	---	---	---	---	---	---	---	---	---	---
7	1.9	0.92	---	---	---	---	---	---	---	---	---	---
8	1.6	0.92	---	---	---	---	---	---	---	---	---	---
9	1.3	0.92	---	---	---	---	---	---	---	---	---	---
10	1.3	1.0	---	---	---	---	---	---	---	---	---	---
11	1.2	0.98	---	---	---	---	---	---	---	---	---	---
12	1.2	0.98	---	---	---	---	---	---	---	---	---	---
13	1.2	1.00	---	---	---	---	---	---	---	---	---	---
14	1.2	1.0	---	---	---	---	---	---	---	---	---	---
15	1.1	1.1	---	---	---	---	---	---	---	---	---	---
16	1.1	2.1	---	---	---	---	---	---	---	---	---	---
17	0.91	1.1	---	---	---	---	---	---	---	---	---	---
18	0.85	1.0	---	---	---	---	---	---	---	---	---	---
19	0.86	0.98	---	---	---	---	---	---	---	---	---	---
20	0.88	0.98	---	---	---	---	---	---	---	---	---	---
21	0.91	2.7	---	---	---	---	---	---	---	---	---	---
22	0.91	2.3	---	---	---	---	---	---	---	---	---	---
23	0.92	1.3	---	---	---	---	---	---	---	---	---	---
24	0.91	1.1	---	---	---	---	---	---	---	---	---	---
25	0.91	1.0	---	---	---	---	---	---	---	---	---	---
26	0.92	0.99	---	---	---	---	---	---	---	---	---	---
27	0.92	1.00	---	---	---	---	---	---	---	---	---	---
28	0.92	2.7	---	---	---	---	---	---	---	---	---	---
29	0.92	11	---	---	---	---	---	---	---	---	---	---
30	0.92	3.1	---	---	---	---	---	---	---	---	---	---
31	0.92	---	---	---	---	---	---	---	---	---	---	---
TOTAL	34.88	47.65	---	---	---	---	---	---	---	---	---	---
MEAN	1.13	1.59	---	---	---	---	---	---	---	---	---	---
MAX	2.7	11	---	---	---	---	---	---	---	---	---	---
MIN	0.85	0.90	---	---	---	---	---	---	---	---	---	---
CFSM	1.09	1.54	---	---	---	---	---	---	---	---	---	---
IN.	1.26	1.72	---	---	---	---	---	---	---	---	---	---

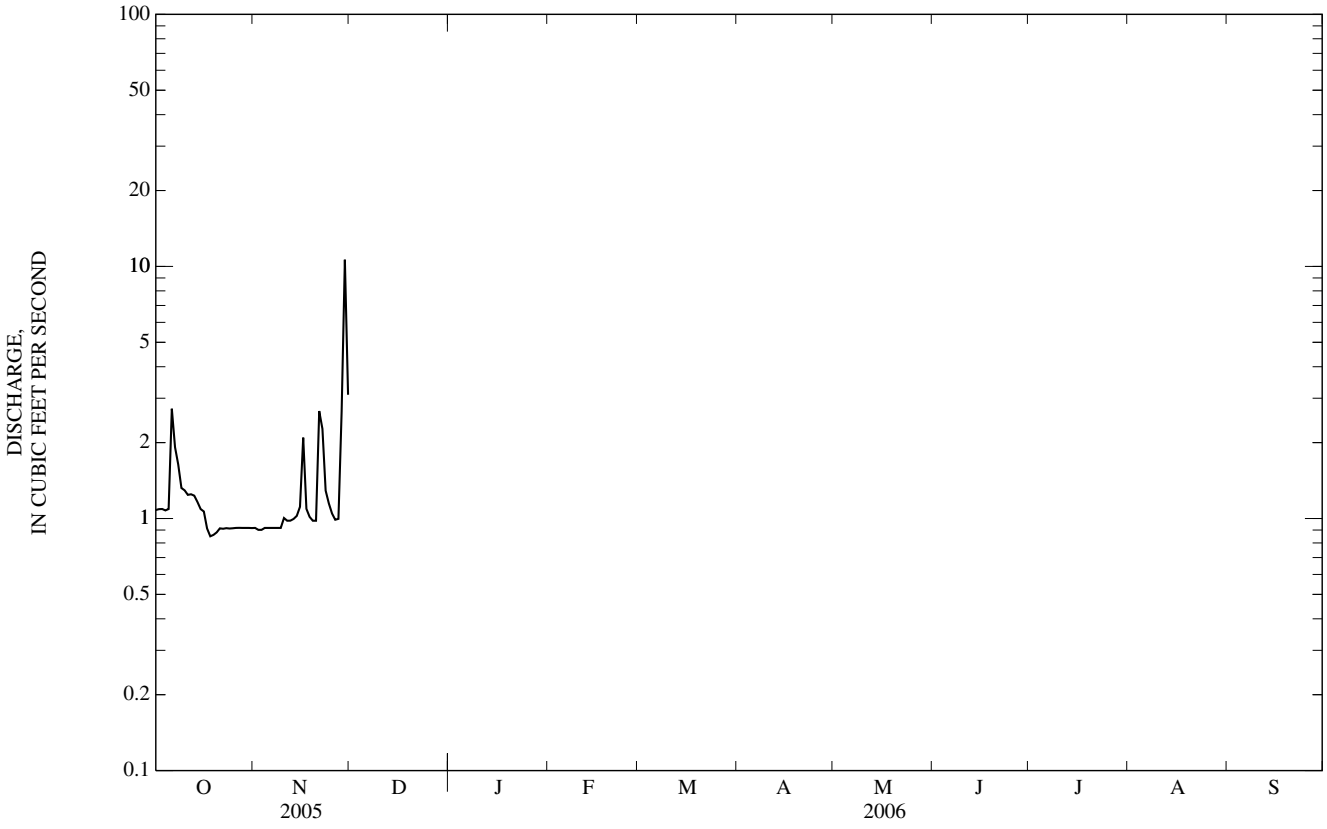
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2006, BY WATER YEAR (WY)

MEAN	1.71	2.18	2.44	1.87	1.54	1.64	1.85	1.30	1.65	1.79	1.41	3.88
MAX	2.29	2.76	2.44	1.87	1.54	1.93	1.89	1.48	2.40	2.74	1.75	6.56
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	1.13	1.59	2.44	1.87	1.54	1.35	1.82	1.12	0.90	0.84	1.07	1.20
(WY)	(2006)	(2006)	(2005)	(2005)	(2005)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2005 CALENDAR YEAR		FOR 2006 WATER YEAR		WATER YEARS 2004 - 2006	
ANNUAL MEAN					2.03	
HIGHEST ANNUAL MEAN					2.03	2005
LOWEST ANNUAL MEAN					2.03	2005
HIGHEST DAILY MEAN	11	Nov 29	11	Nov 29	56	Sep 17, 2004
LOWEST DAILY MEAN	0.85	Oct 18	0.85	Oct 18	0.45	Jun 11, 2004
ANNUAL SEVEN-DAY MINIMUM	0.89	Oct 17	0.89	Oct 17	0.61	Jun 6, 2004
MAXIMUM PEAK FLOW			43	Nov 29	NOT DETERMINED	
MAXIMUM PEAK STAGE			2.98	Nov 29	4.91	Sep 17, 2004
INSTANTANEOUS LOW FLOW			0.80*	Oct 17	0.34	Jun 12, 2004
ANNUAL RUNOFF (CFSM)					1.97	
ANNUAL RUNOFF (INCHES)					26.75	
10 PERCENT EXCEEDS					2.8	
50 PERCENT EXCEEDS					1.8	
90 PERCENT EXCEEDS					1.3	

* See REMARKS.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued



0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2004 to November 2005 (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August 2004 to November 2005.
pH: August 2004 to November 2005.
WATER TEMPERATURE: August 2004 to November 2005.
DISSOLVED OXYGEN: August 2004 to November 2005.
DISSOLVED OXYGEN, PERCENT SATURATION: August 2004 to November 2005.

INSTRUMENTATION.-- Water-quality monitor with satellite telemetry from August 2004 to November 2005.

REMARKS.--Station operated in cooperation with North Carolina Department of Environment and Natural Resources, Division of Water Resources, as part of the Piedmont/Mountains ground-water project. Dissolved oxygen, percent saturation, computed using a barometric pressure of 710 mm Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	33, October 6, 7, November 29, 2005	9, December 20, 21, 2004, January 28, 29, 2005
pH, standard units	7.4, August 9, 2004	5.8, July 27, August 13, 2005
WATER TEMPERATURE, °C	20.4, July 27, 2005	0.4, January 24, 2005
DISSOLVED OXYGEN, mg/L	13.0, December 20, 2004, March 2, 2005	6.1, November 9, 10, 2005
DISSOLVED OXYGEN, PERCENT SATURATION,%	105, April 16, 17, June 28, 2005	62, November 10, 2005

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Carbon dioxide water, unfltrd mg/L (00405)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium adsorp-tion ratio (00931)	Sodium, water, fltrd, mg/L (00930)
AUG 18...	0815	1.0	8.2	94	7.3	18	18.1	6	1.21	.691	.78	.3	1.49

Date	Sodium, percent (00932)	ANC, wat unf incrm. titr., field, mg/L as CaCO3 (00419)	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue water, fltrd, tons/ acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)
AUG 18...	32	8	.04	.88	<.1	11.2	1.0	22	.03	25	<.04	E.04	<.008

Date	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Boron, water, fltrd, ug/L (01020)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
AUG 18...	.20	<.006	<2	<7.0	77	10.8

Remark codes used in this table:
< -- Less than.
E -- Estimated.

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	JUNE			JULY			AUGUST			SEPTEMBER		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	18	17	17	---	---	---
5	---	---	---	---	---	---	17	17	17	---	---	---
6	---	---	---	---	---	---	17	16	17	---	---	---
7	---	---	---	---	---	---	17	15	16	---	---	---
8	---	---	---	---	---	---	16	15	15	---	---	---
9	---	---	---	---	---	---	16	15	15	---	---	---
10	---	---	---	---	---	---	16	15	16	---	---	---
11	---	---	---	---	---	---	24	16	16	---	---	---
12	---	---	---	---	---	---	17	16	16	---	---	---
13	---	---	---	---	---	---	17	14	15	---	---	---
14	---	---	---	---	---	---	15	14	15	---	---	---
15	---	---	---	---	---	---	16	15	15	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	15	10	15	---	---	---
18	---	---	---	---	---	---	17	15	15	---	---	---
19	---	---	---	---	---	---	16	15	15	---	---	---
20	---	---	---	---	---	---	16	15	15	---	---	---
21	---	---	---	---	---	---	17	16	16	---	---	---
22	---	---	---	---	---	---	17	16	16	---	---	---
23	---	---	---	---	---	---	18	17	17	---	---	---
24	---	---	---	---	---	---	18	17	18	---	---	---
25	---	---	---	---	---	---	19	18	18	---	---	---
26	---	---	---	---	---	---	20	18	19	---	---	---
27	---	---	---	---	---	---	20	18	19	---	---	---
28	---	---	---	---	---	---	19	15	16	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	15	14	15	12	11	12	12	11	11
2	---	---	---	16	15	15	12	11	11	12	11	11
3	---	---	---	16	15	16	11	11	11	12	11	12
4	---	---	---	21	15	18	11	10	11	12	12	12
5	---	---	---	16	14	15	11	10	11	12	12	12
6	---	---	---	14	13	14	12	11	11	13	12	12
7	15	14	14	14	13	14	12	11	12	12	12	12
8	14	13	14	14	13	14	13	11	12	13	12	12
9	14	14	14	14	13	13	12	11	11	12	12	12
10	15	14	14	14	13	13	12	12	12	12	12	12
11	15	14	14	14	12	13	12	11	12	13	12	12
12	16	14	15	14	12	14	11	11	11	13	12	12
13	17	14	15	14	13	13	11	11	11	14	12	13
14	15	14	14	14	12	13	12	10	11	14	12	13
15	14	14	14	13	12	12	11	10	10	12	11	12
16	14	13	14	13	12	12	11	10	10	12	11	11
17	14	13	14	13	12	13	11	10	10	11	10	11
18	14	13	14	13	12	13	11	10	10	11	10	10
19	16	14	15	13	13	13	11	10	11	11	10	10
20	15	15	15	14	13	13	11	9	10	11	10	11
21	15	15	15	14	13	13	10	9	10	12	11	11
22	15	15	15	14	13	13	11	10	10	11	11	11
23	16	15	15	14	13	13	13	11	12	11	10	10
24	15	15	15	18	13	14	11	10	11	11	10	10
25	15	14	15	14	12	13	11	10	10	11	10	11
26	15	14	15	12	12	12	11	10	10	11	10	11
27	16	15	15	12	11	12	11	10	10	10	10	10
28	17	15	16	12	11	12	10	10	10	10	9	10
29	17	15	16	12	11	12	11	10	10	10	9	9
30	16	15	15	12	11	12	11	10	11	11	10	10
31	15	15	15	---	---	---	11	11	11	11	10	10
MONTH	---	---	---	21	11	13	13	9	11	14	9	11
		FEBRUARY			MARCH			APRIL			MAY	
1	11	10	10	13	13	13	15	15	15	---	---	---
2	11	10	10	13	13	13	16	15	15	---	---	---
3	11	10	11	13	12	13	15	15	15	---	---	---
4	11	10	10	13	12	12	15	15	15	---	---	---
5	11	10	10	13	12	12	15	15	15	---	---	---
6	11	10	10	13	13	13	16	15	15	---	---	---
7	11	10	11	14	13	13	16	15	15	---	---	---
8	14	11	11	14	14	14	16	15	15	---	---	---
9	11	11	11	14	13	13	16	15	15	---	---	---
10	11	10	10	14	13	13	16	15	15	---	---	---
11	10	10	10	14	13	13	16	15	16	---	---	---
12	11	10	10	14	13	13	16	15	16	---	---	---
13	11	10	10	14	13	14	17	15	16	---	---	---
14	11	10	10	14	12	13	17	16	16	---	---	---
15	11	10	11	14	12	13	16	15	16	---	---	---
16	11	11	11	15	14	15	16	15	16	---	---	---
17	11	10	11	15	14	14	16	15	15	---	---	---
18	11	10	10	15	14	15	16	15	16	---	---	---
19	11	10	10	15	13	14	17	16	16	---	---	---
20	11	10	10	14	13	14	16	16	16	---	---	---
21	12	11	11	15	13	14	17	16	16	---	---	---
22	12	11	11	15	14	14	17	16	16	---	---	---
23	12	11	11	16	15	15	17	16	17	---	---	---
24	14	11	13	15	15	15	17	16	16	---	---	---
25	14	14	14	15	15	15	17	16	17	17	17	17
26	14	14	14	16	15	15	17	16	17	17	17	17
27	14	13	13	17	15	15	17	17	17	18	17	17
28	14	12	13	17	15	16	17	17	17	20	17	18
29	---	---	---	15	15	15	18	17	17	22	18	18
30	---	---	---	15	15	15	---	---	---	23	18	18
31	---	---	---	15	15	15	---	---	---	19	18	18
MONTH	14	10	11	17	12	14	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	20	19	19	26	19	19	21	20	21	24	18	19
2	20	18	20	25	20	21	21	20	20	19	18	19
3	20	16	20	27	21	21	21	20	21	19	19	19
4	20	19	20	23	22	22	22	21	21	19	19	19
5	21	19	20	27	23	23	23	21	22	19	18	19
6	20	20	20	24	23	23	23	22	23	18	18	18
7	22	20	21	27	16	20	23	22	22	18	18	18
8	23	21	22	23	17	18	24	21	22	19	18	18
9	23	22	22	22	17	18	21	20	21	19	18	19
10	23	22	22	22	18	18	21	21	21	19	19	19
11	24	23	23	22	18	19	21	20	20	20	19	19
12	---	---	---	24	22	23	21	20	21	20	19	19
13	---	---	---	24	21	22	21	19	20	20	19	20
14	---	---	---	23	21	21	20	18	19	20	20	20
15	---	---	---	22	21	22	20	19	19	21	20	20
16	---	---	---	22	21	21	20	19	20	22	20	21
17	---	---	---	21	21	21	20	19	19	21	21	21
18	---	---	---	22	20	21	21	19	20	21	20	20
19	---	---	---	25	21	23	22	20	21	21	20	20
20	---	---	---	25	15	22	28	22	23	21	20	20
21	---	---	---	17	16	16	27	21	23	21	20	21
22	---	---	---	18	16	16	24	22	23	22	21	21
23	---	---	---	18	17	17	24	22	22	22	21	21
24	---	---	---	17	17	17	23	22	22	23	21	22
25	---	---	---	17	17	17	24	22	22	21	16	17
26	---	---	---	17	17	17	25	21	22	19	17	18
27	---	---	---	24	17	18	22	21	22	18	17	18
28	---	---	---	19	16	18	23	20	21	18	17	17
29	17	16	16	22	18	20	23	21	21	19	18	18
30	19	17	18	21	20	21	28	21	25	19	18	19
31	---	---	---	21	19	20	24	19	21	---	---	---
MONTH	---	---	---	27	15	20	28	18	21	24	16	19

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19	18	19	17	17	17	---	---	---	---	---	---
2	19	18	19	17	17	17	---	---	---	---	---	---
3	20	19	19	17	17	17	---	---	---	---	---	---
4	20	19	20	17	17	17	---	---	---	---	---	---
5	21	19	20	18	17	17	---	---	---	---	---	---
6	33	21	26	18	17	18	---	---	---	---	---	---
7	33	20	27	18	17	18	---	---	---	---	---	---
8	22	20	21	18	17	17	---	---	---	---	---	---
9	21	20	20	18	17	18	---	---	---	---	---	---
10	22	20	21	21	18	20	---	---	---	---	---	---
11	21	19	20	19	18	18	---	---	---	---	---	---
12	20	19	19	18	17	18	---	---	---	---	---	---
13	20	18	19	23	17	17	---	---	---	---	---	---
14	20	18	19	23	17	18	---	---	---	---	---	---
15	20	18	19	22	17	18	---	---	---	---	---	---
16	19	17	18	29	21	24	---	---	---	---	---	---
17	---	---	---	21	16	20	---	---	---	---	---	---
18	18	17	17	17	16	16	---	---	---	---	---	---
19	18	17	18	19	16	16	---	---	---	---	---	---
20	18	18	18	16	16	16	---	---	---	---	---	---
21	18	17	18	22	16	18	---	---	---	---	---	---
22	18	18	18	22	18	19	---	---	---	---	---	---
23	20	17	18	18	17	18	---	---	---	---	---	---
24	18	17	17	18	17	17	---	---	---	---	---	---
25	18	17	17	17	16	16	---	---	---	---	---	---
26	17	17	17	17	16	16	---	---	---	---	---	---
27	17	16	17	17	16	16	---	---	---	---	---	---
28	17	17	17	27	17	20	---	---	---	---	---	---
29	17	16	17	33	15	19	---	---	---	---	---	---
30	17	16	17	15	14	14	---	---	---	---	---	---
31	17	16	17	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	33	14	18	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	7.2	6.8	7.0	---	---	---
5	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
6	---	---	---	---	---	---	7.2	6.6	6.9	---	---	---
7	---	---	---	---	---	---	7.3	6.6	6.9	---	---	---
8	---	---	---	---	---	---	7.3	6.6	7.0	---	---	---
9	---	---	---	---	---	---	7.4	6.6	6.8	---	---	---
10	---	---	---	---	---	---	7.3	6.6	6.8	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	7.0	6.9	7.0	---	---	---
18	---	---	---	---	---	---	7.1	6.5	6.8	---	---	---
19	---	---	---	---	---	---	6.8	6.4	6.5	---	---	---
20	---	---	---	---	---	---	6.8	6.5	6.7	---	---	---
21	---	---	---	---	---	---	6.8	6.8	6.8	---	---	---
22	---	---	---	---	---	---	6.9	6.8	6.8	---	---	---
23	---	---	---	---	---	---	6.8	6.7	6.8	---	---	---
24	---	---	---	---	---	---	6.9	6.7	6.8	---	---	---
25	---	---	---	---	---	---	6.9	6.6	6.8	---	---	---
26	---	---	---	---	---	---	6.8	6.5	6.8	---	---	---
27	---	---	---	---	---	---	6.8	6.4	6.7	---	---	---
28	---	---	---	---	---	---	6.8	6.4	6.7	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	6.3	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.5
2	---	---	---	6.2	6.1	6.2	6.5	6.4	6.5	6.6	6.4	6.5
3	---	---	---	6.2	6.1	6.1	6.5	6.5	6.5	6.4	6.4	6.4
4	---	---	---	6.3	6.0	6.1	6.5	6.5	6.5	6.4	6.3	6.4
5	---	---	---	6.5	5.9	6.3	6.5	6.4	6.5	6.5	6.4	6.4
6	---	---	---	6.6	6.4	6.5	6.5	6.4	6.5	6.4	6.4	6.4
7	---	---	---	6.6	6.5	6.6	6.4	6.4	6.4	6.5	6.4	6.4
8	---	---	---	6.6	6.4	6.5	6.4	6.4	6.4	6.4	6.4	6.4
9	---	---	---	6.7	6.5	6.6	6.5	6.4	6.4	6.5	6.4	6.4
10	6.0	6.0	6.0	6.7	6.6	6.6	6.5	6.2	6.4	6.5	6.4	6.4
11	6.1	6.0	6.0	6.7	6.6	6.6	6.4	6.4	6.4	6.5	6.4	6.4
12	6.2	6.0	6.1	6.6	6.4	6.5	6.4	6.4	6.4	6.4	6.4	6.4
13	6.1	6.0	6.0	6.6	6.5	6.5	6.5	6.3	6.5	6.4	6.3	6.4
14	6.1	6.0	6.1	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.3	6.4
15	6.2	6.0	6.1	6.6	6.6	6.6	6.5	6.5	6.5	6.5	6.4	6.4
16	6.2	6.0	6.1	6.6	6.6	6.6	6.6	6.5	6.5	6.5	6.4	6.5
17	6.2	6.0	6.0	6.6	6.5	6.6	6.6	6.4	6.5	6.5	6.4	6.5
18	6.2	6.1	6.2	6.6	6.5	6.5	6.5	6.4	6.4	6.5	6.3	6.4
19	6.2	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.4	6.4	6.3	6.3
20	6.2	6.1	6.2	6.5	6.4	6.4	6.5	6.4	6.4	6.4	6.2	6.3
21	6.3	6.2	6.2	6.5	6.4	6.5	6.5	6.4	6.4	6.3	6.3	6.3
22	6.2	6.2	6.2	6.6	6.4	6.5	6.5	6.4	6.5	6.3	6.3	6.3
23	6.2	6.2	6.2	6.6	6.3	6.4	6.5	6.3	6.4	6.4	6.3	6.3
24	6.2	6.1	6.2	6.6	6.4	6.5	6.5	6.4	6.5	6.4	6.3	6.3
25	6.3	6.2	6.2	6.6	6.5	6.6	6.6	6.5	6.5	6.4	6.3	6.3
26	6.2	6.1	6.2	6.6	6.6	6.6	6.6	6.5	6.5	---	---	---
27	6.2	6.1	6.2	6.6	6.5	6.6	6.6	6.5	6.5	6.4	6.3	6.3
28	6.2	6.1	6.2	6.6	6.5	6.5	6.6	6.5	6.5	6.4	6.3	6.3
29	6.2	6.1	6.2	6.6	6.5	6.6	6.6	6.4	6.5	6.3	6.3	6.3
30	6.3	6.2	6.2	6.6	6.6	6.6	6.6	6.5	6.5	6.3	6.3	6.3
31	6.3	6.2	6.3	---	---	---	6.5	6.5	6.5	6.3	6.3	6.3
MONTH	---	---	---	6.7	5.9	6.5	6.6	6.2	6.5	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	6.3	6.3	6.3	6.5	6.4	6.4	6.5	6.5	6.5	6.7	6.6	6.6
2	6.4	6.3	6.4	6.5	6.4	6.5	6.5	6.5	6.5	6.7	6.6	6.6
3	6.4	6.4	6.4	6.5	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.6
4	6.4	6.4	6.4	6.6	6.5	6.5	6.5	6.4	6.5	6.7	6.6	6.6
5	6.4	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5	6.7	6.5	6.6
6	6.4	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5	6.6	6.5	6.6
7	6.4	6.4	6.4	6.6	6.5	6.5	6.5	6.5	6.5	6.6	6.5	6.6
8	6.4	6.3	6.4	6.6	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.6
9	6.4	6.3	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.6
10	6.4	6.4	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.4	6.5
11	6.4	6.4	6.4	6.5	6.4	6.4	6.6	6.5	6.5	6.6	6.5	6.5
12	6.4	6.4	6.4	6.5	6.4	6.5	6.6	6.4	6.5	6.6	6.5	6.5
13	6.4	6.4	6.4	6.5	6.4	6.4	6.5	6.4	6.5	6.6	6.5	6.5
14	6.5	6.4	6.5	6.5	6.4	6.5	6.5	6.4	6.5	6.6	6.5	6.5
15	6.5	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.5
16	6.5	6.5	6.5	6.5	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.5
17	6.5	6.5	6.5	6.5	6.4	6.4	6.6	6.2	6.5	6.6	6.5	6.5
18	6.5	6.5	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
19	6.5	6.4	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.6	6.5	6.5
20	6.5	6.5	6.5	6.4	6.3	6.4	6.6	6.5	6.5	6.5	6.3	6.4
21	6.5	6.4	6.4	6.4	6.1	6.4	6.7	6.5	6.6	6.5	6.5	6.5
22	6.5	6.4	6.5	6.4	6.4	6.4	6.7	6.6	6.6	6.6	6.5	6.5
23	6.5	6.5	6.5	6.4	6.3	6.4	6.7	6.6	6.6	6.6	6.5	6.5
24	6.6	6.5	6.6	6.4	6.4	6.4	6.6	6.6	6.6	6.6	6.4	6.5
25	6.6	6.6	6.6	6.5	6.4	6.4	6.7	6.6	6.6	6.6	6.5	6.5
26	6.6	6.6	6.6	6.5	6.4	6.4	6.6	6.6	6.6	6.6	6.5	6.5
27	6.6	6.6	6.6	6.5	6.2	6.4	6.6	6.6	6.6	6.6	6.5	6.5
28	6.6	6.4	6.5	6.4	6.1	6.3	6.6	6.6	6.6	6.6	6.5	6.5
29	---	---	---	6.5	6.4	6.4	6.6	6.6	6.6	6.6	6.5	6.5
30	---	---	---	6.5	6.4	6.5	6.6	6.6	6.6	6.6	6.5	6.5
31	---	---	---	6.5	6.4	6.5	---	---	---	6.6	6.5	6.5
MONTH	6.6	6.3	6.5	6.6	6.1	6.4	6.7	6.2	6.5	6.7	6.3	6.5

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	6.4	6.5	6.8	6.6	6.7	6.5	6.4	6.4	6.6	6.5	6.6
2	6.5	6.4	6.5	6.9	6.7	6.8	6.5	6.4	6.4	6.7	6.6	6.6
3	6.5	6.4	6.5	6.9	6.8	6.8	6.5	6.4	6.4	6.7	6.7	6.7
4	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.6	6.7
5	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.7	6.7
6	6.5	6.4	6.5	6.9	6.8	6.9	6.5	6.4	6.5	6.7	6.7	6.7
7	6.6	6.4	6.5	6.9	6.4	6.7	6.5	6.4	6.5	6.7	6.7	6.7
8	6.5	6.4	6.5	7.0	6.8	6.9	6.4	6.3	6.4	6.7	6.6	6.7
9	6.6	6.4	6.5	7.0	6.8	6.8	6.4	6.3	6.3	6.7	6.6	6.7
10	6.6	6.4	6.5	6.9	6.8	6.8	6.4	6.3	6.3	6.7	6.6	6.7
11	6.6	6.4	6.5	6.9	6.7	6.8	6.4	6.4	6.4	6.8	6.7	6.7
12	6.6	6.2	6.4	6.8	6.6	6.7	6.4	6.3	6.4	6.8	6.6	6.6
13	6.5	6.2	6.4	6.8	6.6	6.7	6.3	5.8	6.3	6.7	6.6	6.6
14	6.6	6.4	6.5	6.8	6.7	6.7	6.4	6.3	6.4	6.7	6.6	6.6
15	6.6	6.5	6.6	6.7	6.7	6.7	6.4	6.3	6.4	6.7	6.6	6.6
16	6.6	6.5	6.6	6.7	6.6	6.7	6.4	6.2	6.3	6.7	6.6	6.6
17	6.6	6.6	6.6	6.7	6.6	6.6	6.3	6.2	6.3	6.7	6.6	6.7
18	6.6	6.5	6.6	6.7	6.6	6.6	6.4	6.2	6.3	6.7	6.5	6.6
19	6.6	6.1	6.5	6.6	6.5	6.6	6.5	6.3	6.4	6.7	6.5	6.6
20	6.5	6.4	6.5	6.7	6.6	6.6	6.5	6.3	6.4	6.7	6.6	6.7
21	6.5	6.5	6.5	6.6	6.4	6.5	6.5	6.4	6.4	6.8	6.6	6.7
22	6.6	6.5	6.6	6.5	6.4	6.4	6.5	6.4	6.4	6.8	6.5	6.6
23	6.6	6.6	6.6	6.4	6.3	6.3	6.5	6.4	6.4	6.6	6.4	6.5
24	6.7	6.6	6.6	6.4	6.3	6.4	6.4	6.3	6.3	6.8	6.4	6.6
25	6.7	6.6	6.6	6.4	6.3	6.3	6.4	6.3	6.4	6.8	6.7	6.8
26	6.6	6.5	6.6	6.4	6.3	6.3	6.4	6.3	6.3	6.8	6.7	6.8
27	6.6	6.3	6.5	6.4	5.8	6.3	6.4	6.3	6.4	6.8	6.8	6.8
28	6.6	6.0	6.4	6.3	6.2	6.3	6.4	6.2	6.3	6.8	6.8	6.8
29	6.7	6.1	6.4	6.3	6.2	6.3	6.4	6.3	6.4	6.9	6.8	6.8
30	6.7	6.4	6.6	6.5	6.3	6.4	6.4	6.0	6.3	6.8	6.7	6.8
31	---	---	---	6.5	6.4	6.5	6.6	6.4	6.5	---	---	---
MONTH	6.7	6.0	6.5	7.0	5.8	6.6	6.6	5.8	6.4	6.9	6.4	6.7

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	6.8	6.8	6.8	6.7	6.7	---	---	---	---	---	---
2	6.9	6.7	6.8	6.8	6.7	6.8	---	---	---	---	---	---
3	6.8	6.7	6.8	6.8	6.7	6.7	---	---	---	---	---	---
4	6.8	6.6	6.7	6.8	6.7	6.8	---	---	---	---	---	---
5	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---	---	---	---
6	6.7	6.3	6.6	6.9	6.8	6.8	---	---	---	---	---	---
7	6.7	6.5	6.6	6.9	6.8	6.8	---	---	---	---	---	---
8	6.8	6.6	6.7	6.9	6.8	6.8	---	---	---	---	---	---
9	6.8	6.7	6.8	6.9	6.8	6.9	---	---	---	---	---	---
10	6.8	6.7	6.8	6.9	6.8	6.8	---	---	---	---	---	---
11	6.8	6.7	6.8	6.8	6.7	6.8	---	---	---	---	---	---
12	6.8	6.7	6.8	6.9	6.7	6.8	---	---	---	---	---	---
13	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	---	---	---
14	6.8	6.8	6.8	6.9	6.8	6.9	---	---	---	---	---	---
15	6.8	6.7	6.8	7.0	6.9	6.9	---	---	---	---	---	---
16	6.8	6.7	6.7	7.0	6.9	6.9	---	---	---	---	---	---
17	6.7	6.6	6.6	6.9	6.8	6.9	---	---	---	---	---	---
18	6.7	6.6	6.7	6.8	6.7	6.8	---	---	---	---	---	---
19	6.8	6.7	6.7	6.8	6.7	6.8	---	---	---	---	---	---
20	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---	---	---	---
21	6.8	6.7	6.8	6.9	6.6	6.8	---	---	---	---	---	---
22	6.8	6.7	6.8	6.6	6.3	6.4	---	---	---	---	---	---
23	6.8	6.6	6.7	6.4	6.3	6.3	---	---	---	---	---	---
24	6.8	6.6	6.7	6.5	6.4	6.4	---	---	---	---	---	---
25	6.6	6.6	6.6	6.5	6.2	6.4	---	---	---	---	---	---
26	6.7	6.6	6.7	6.5	6.3	6.4	---	---	---	---	---	---
27	6.7	6.6	6.6	6.5	6.3	6.4	---	---	---	---	---	---
28	6.7	6.6	6.7	6.4	6.3	6.4	---	---	---	---	---	---
29	6.7	6.6	6.7	6.7	6.3	6.6	---	---	---	---	---	---
30	6.7	6.6	6.6	6.7	6.5	6.6	---	---	---	---	---	---
31	6.8	6.6	6.7	---	---	---	---	---	---	---	---	---
MONTH	6.9	6.3	6.7	7.0	6.2	6.7	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	17.7	17.0	17.3
3	---	---	---	---	---	---	---	---	---	17.6	16.7	17.1
4	---	---	---	---	---	---	19.1	16.9	18.0	17.7	16.0	16.9
5	---	---	---	---	---	---	18.1	17.0	17.6	18.1	15.9	16.8
6	---	---	---	---	---	---	17.9	15.4	16.8	17.5	16.4	17.0
7	---	---	---	---	---	---	16.7	13.4	15.1	18.1	17.3	17.7
8	---	---	---	---	---	---	16.8	13.5	15.2	18.1	17.0	17.4
9	---	---	---	---	---	---	17.0	14.4	15.8	17.5	16.5	16.9
10	---	---	---	---	---	---	17.3	15.0	16.3	17.4	15.9	16.6
11	---	---	---	---	---	---	17.8	15.8	16.6	17.6	16.3	16.9
12	---	---	---	---	---	---	16.8	16.3	16.5	17.6	16.1	16.7
13	---	---	---	---	---	---	16.6	15.5	16.0	16.8	15.6	16.2
14	---	---	---	---	---	---	16.9	14.9	15.9	17.1	15.2	16.2
15	---	---	---	---	---	---	17.5	15.9	16.5	17.3	15.9	16.6
16	---	---	---	---	---	---	---	---	---	18.9	16.7	17.1
17	---	---	---	---	---	---	17.2	16.1	16.6	18.8	16.5	17.3
18	---	---	---	---	---	---	18.1	16.2	17.0	16.5	15.3	16.0
19	---	---	---	---	---	---	17.9	16.0	17.0	16.1	14.0	15.0
20	---	---	---	---	---	---	18.2	16.5	17.4	15.4	13.3	14.3
21	---	---	---	---	---	---	18.2	16.8	17.5	15.7	12.7	14.0
22	---	---	---	---	---	---	17.6	16.8	17.1	---	---	---
23	---	---	---	---	---	---	17.7	16.6	17.2	---	---	---
24	---	---	---	---	---	---	18.4	16.7	17.4	---	---	---
25	---	---	---	---	---	---	18.6	16.7	17.5	---	---	---
26	---	---	---	---	---	---	18.8	16.7	17.7	---	---	---
27	---	---	---	---	---	---	19.0	17.0	18.0	---	---	---
28	---	---	---	---	---	---	19.1	17.4	18.1	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.5	13.6	14.9	10.5	7.6	9.4	9.4	6.6	7.9
2	---	---	---	17.6	15.1	16.0	9.3	6.3	7.6	9.8	7.3	8.5
3	---	---	---	16.1	15.4	15.8	8.6	6.5	7.3	10.2	7.9	9.0
4	---	---	---	15.9	13.5	15.2	8.4	5.7	6.9	11.1	8.7	9.8
5	---	---	---	13.5	10.8	12.3	8.8	6.1	7.4	10.8	8.5	9.6
6	---	---	---	12.8	9.7	11.1	9.6	8.4	9.0	10.6	9.2	9.9
7	16.0	14.0	14.9	13.4	9.9	11.5	12.3	9.5	10.8	9.8	8.1	9.0
8	15.1	12.6	13.9	13.0	10.4	11.7	10.9	8.8	9.8	11.4	8.4	10
9	15.1	14.0	14.5	11.7	8.8	10.1	10.2	8.9	9.6	9.8	7.3	8.4
10	16.1	14.0	15.0	11.1	8.4	9.7	11.4	9.6	10.4	10.0	6.9	8.3
11	16.3	14.5	15.3	10.7	8.7	9.7	9.6	8.0	8.9	10.3	7.7	8.9
12	16.3	14.1	15.1	12.0	10.6	11.4	8.7	7.2	7.9	10.9	8.3	9.6
13	15.6	14.4	15.0	12.1	9.7	11.3	8.4	6.0	7.5	11.9	10.4	11.2
14	15.0	13.6	14.3	10.7	8.3	9.3	6.0	4.1	5.2	11.1	7.3	9.3
15	14.1	11.5	13.0	10.4	7.1	8.7	5.6	3.6	4.5	8.4	6.4	7.3
16	13.2	10.6	11.6	10.2	7.6	8.9	6.1	3.2	4.5	8.2	5.3	6.8
17	12.7	9.5	11.1	11.7	8.6	10.2	6.9	4.4	5.4	5.3	2.8	4.0
18	13.5	10.9	12.2	12.5	9.5	11.0	6.7	4.1	5.2	4.1	1.8	2.9
19	14.5	13.4	13.9	13.4	11.1	12.1	5.7	2.7	4.9	4.3	2.5	3.3
20	15.5	13.4	14.3	13.3	11.8	12.4	3.2	1.1	2.2	6.1	2.9	4.4
21	15.7	14.0	14.7	12.8	11.8	12.3	5.2	1.9	3.6	7.6	4.8	6.0
22	15.4	14.2	14.6	13.6	11.8	12.6	7.1	3.8	5.4	6.3	4.0	5.5
23	14.6	13.6	14.0	13.2	12.8	13.0	8.6	5.3	7.4	4.0	1.3	2.2
24	15.3	13.3	14.0	13.6	12.6	13.0	5.8	4.5	5.0	4.0	0.4	2.1
25	15.4	12.2	13.7	12.6	8.6	10.8	5.2	3.6	4.5	5.9	2.4	3.8
26	15.3	12.3	13.6	9.9	7.7	8.7	5.8	4.1	4.7	7.8	4.0	5.6
27	15.8	13.4	14.4	9.0	7.5	8.2	5.4	3.4	4.3	6.5	4.4	5.4
28	15.9	14.5	15.0	9.9	8.0	8.8	5.7	3.1	4.3	4.8	3.4	4.0
29	16.0	14.4	14.9	10.0	8.0	8.9	6.8	3.7	5.3	4.0	2.3	3.2
30	16.7	14.4	15.3	10.2	8.2	9.2	8.3	5.4	6.8	5.9	4.0	4.8
31	16.6	14.2	15.2	---	---	---	8.8	6.5	7.6	6.0	4.9	5.3
MONTH	---	---	---	17.6	7.1	11.3	12.3	1.1	6.6	11.9	0.4	6.6
		FEBRUARY			MARCH			APRIL			MAY	
1	6.0	4.5	5.2	5.9	3.5	4.8	11.4	10.2	10.9	14.6	10.3	12.0
2	5.6	4.2	4.7	6.6	2.6	4.2	11.3	7.9	9.9	13.0	9.4	11.0
3	6.1	4.6	5.2	7.1	3.3	4.7	12.4	7.0	9.2	13.8	9.3	11.2
4	7.1	4.6	5.5	7.9	3.1	5.3	13.8	8.0	10.5	13.8	9.0	11.3
5	7.6	3.8	5.4	9.4	5.1	6.8	15.0	8.6	11.4	11.3	10.3	10.8
6	7.6	4.4	5.9	9.8	5.2	7.1	15.1	10.1	12.2	14.5	10.0	11.9
7	8.1	4.8	6.4	9.9	4.9	7.4	12.3	11.8	12.0	15.2	10.0	12.4
8	9.3	6.6	7.9	8.6	4.8	7.3	13.8	11.1	12.1	16.0	11.2	13.4
9	8.9	7.4	8.1	7.8	3.9	5.6	16.3	10.8	12.9	16.0	11.8	13.9
10	8.3	4.1	6.5	8.6	4.7	6.4	16.9	10.2	13.1	15.5	13.0	13.8
11	5.5	2.7	4.0	8.7	4.8	6.3	16.6	11.2	13.7	16.3	12.2	14.0
12	7.4	3.8	5.3	10.6	4.9	7.4	13.5	11.9	12.7	16.9	12.9	14.7
13	6.5	4.5	5.5	11.8	7.1	9.1	11.9	10.3	11.3	17.0	13.7	15.1
14	7.7	5.9	6.6	9.6	6.7	8.6	14.4	9.2	11.3	16.6	14.3	15.2
15	8.9	5.4	6.9	9.8	5.4	7.4	15.1	9.0	11.6	14.6	13.4	14.2
16	9.1	6.6	7.8	7.8	6.5	7.1	14.6	8.7	11.3	14.7	11.7	13.3
17	7.9	4.9	6.4	6.6	5.4	6.1	15.1	8.2	11.2	14.9	11.6	13.4
18	7.0	3.6	5.0	9.3	4.5	6.5	16.0	9.4	12.3	15.6	13.1	14.4
19	8.0	3.6	5.5	9.2	4.7	6.7	15.5	10.7	12.9	15.6	14.0	14.8
20	6.5	5.8	6.2	10.9	5.2	7.7	15.9	11.3	13.4	14.9	13.9	14.3
21	8.8	6.4	7.4	9.8	6.0	8.0	15.7	11.2	13.2	15.6	13.3	14.2
22	10.8	6.7	8.3	8.3	7.2	7.8	14.7	11.9	13.1	15.8	13.0	14.3
23	10.8	6.6	8.4	12.6	8.0	9.8	12.9	9.7	11.6	16.2	13.7	14.8
24	8.7	7.8	8.4	13.0	8.6	10.2	11.2	8.0	9.3	14.7	13.1	14.0
25	9.7	6.3	7.7	13.7	8.3	10.5	13.7	7.9	10.2	14.3	12.0	13.1
26	9.3	5.0	6.9	14.0	9.0	11.1	10.9	8.7	10	15.2	11.7	13.4
27	7.4	5.7	6.6	11.2	10.1	10.6	12.7	8.8	10.6	15.0	12.2	13.7
28	6.6	4.6	5.7	10.4	9.1	9.8	12.3	8.4	10.2	14.7	12.8	13.7
29	---	---	---	13.2	8.4	10.3	12.8	9.7	11.2	13.9	11.7	13.0
30	---	---	---	14.0	8.6	10.9	13.2	11.3	12.1	14.7	13.0	13.8
31	---	---	---	12.2	10.2	10.9	---	---	---	15.3	12.8	14.0
MONTH	10.8	2.7	6.4	14.0	2.6	7.8	16.9	7.0	11.6	17.0	9.0	13.5

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.4	13.2	13.9	17.7	16.4	17.0	18.4	17.0	17.7	18.8	16.7	17.7
2	13.6	13.1	13.4	17.1	16.0	16.6	18.6	16.8	17.6	18.7	16.1	17.4
3	14.3	13.4	13.8	17.2	16.1	16.6	18.6	16.4	17.5	18.6	16.6	17.5
4	15.8	13.8	14.7	17.3	16.3	16.8	18.9	16.6	17.7	18.0	15.2	16.6
5	16.5	14.3	15.4	18.3	16.5	17.3	18.6	17.0	17.8	17.8	15.8	16.8
6	16.7	14.8	15.8	17.4	16.6	17.0	18.5	16.9	17.7	17.5	15.5	16.4
7	16.9	15.2	16.0	16.9	16.3	16.7	17.7	17.2	17.4	17.4	14.9	16.2
8	16.5	15.7	16.1	17.4	15.6	16.4	17.4	17.1	17.3	17.5	14.6	16.0
9	17.7	15.6	16.4	17.5	15.2	16.3	18.2	17.1	17.6	17.6	14.7	16.1
10	17.6	15.9	16.7	17.7	16.1	16.9	18.4	17.2	17.7	17.5	14.8	16.2
11	16.8	16.2	16.5	18.3	16.8	17.4	19.0	17.1	18.0	17.8	15.6	16.6
12	16.9	16.3	16.5	17.9	17.1	17.5	19.1	17.1	18.0	17.7	14.8	16.3
13	17.4	16.1	16.6	17.7	16.7	17.1	19.3	17.4	18.3	17.8	15.0	16.4
14	17.9	15.4	16.6	17.9	16.6	17.2	19.5	17.5	18.4	17.6	15.2	16.4
15	18.4	16.3	17.1	17.7	16.8	17.3	19.7	17.6	18.6	18.1	15.7	16.9
16	17.8	15.4	16.5	18.2	16.9	17.5	19.1	17.8	18.5	17.3	16.2	16.8
17	17.2	15.3	16.1	18.8	17.1	17.8	19.2	17.8	18.4	18.1	16.2	17.0
18	16.0	14.1	15.2	18.6	17.2	17.8	18.9	18.1	18.4	17.7	15.3	16.5
19	17.0	14.7	15.5	19.2	17.3	18.0	19.2	17.9	18.5	17.8	15.1	16.4
20	15.5	14.5	15.0	19.0	17.1	17.8	19.5	17.9	18.7	18.1	15.6	16.8
21	15.7	14.1	14.9	18.9	17.1	17.9	20.2	18.1	19.0	18.2	16.0	17.1
22	16.4	14.2	15.3	18.9	17.3	18.0	19.3	17.8	18.6	18.4	16.5	17.4
23	17.3	14.9	16.1	19.2	17.5	18.2	18.8	18.0	18.4	18.3	16.1	17.2
24	17.6	14.9	16.2	18.6	17.0	17.8	19.3	17.7	18.3	18.1	16.0	17.1
25	17.4	15.2	16.3	19.6	17.3	18.3	19.2	18.0	18.5	18.5	17.4	17.8
26	16.5	16.0	16.2	19.8	17.7	18.7	18.8	17.5	18.1	17.9	17.4	17.6
27	17.8	16.3	16.9	20.4	18.0	18.9	18.6	17.3	17.9	18.4	16.6	17.4
28	18.9	16.4	16.9	18.6	17.8	18.2	19.1	17.4	18.2	17.7	15.6	16.7
29	17.0	15.9	16.3	18.0	17.6	17.8	18.6	17.9	18.3	17.2	15.5	16.8
30	17.6	15.9	16.7	18.2	17.3	17.7	19.4	18.6	19.0	16.3	14.3	15.3
31	---	---	---	18.5	17.4	17.8	19.4	17.6	18.5	---	---	---
MONTH	18.9	13.1	15.9	20.4	15.2	17.5	20.2	16.4	18.1	18.8	14.3	16.8

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	16.8	14.1	15.5	11.9	8.2	10.1	---	---	---	---	---	---
2	16.9	14.8	15.9	12.1	9.1	10.8	---	---	---	---	---	---
3	17.2	15.3	16.1	11.6	7.7	9.6	---	---	---	---	---	---
4	16.9	14.3	15.6	12.3	8.1	10.2	---	---	---	---	---	---
5	16.9	15.4	16.1	13.3	10.2	11.7	---	---	---	---	---	---
6	16.8	16.2	16.5	14.0	11.1	12.3	---	---	---	---	---	---
7	16.9	16.4	16.6	13.6	10.5	11.9	---	---	---	---	---	---
8	17.0	15.8	16.6	13.2	9.5	11.4	---	---	---	---	---	---
9	16.6	15.2	15.9	14.2	10.9	12.5	---	---	---	---	---	---
10	17.1	16.1	16.5	13.0	8.8	11.4	---	---	---	---	---	---
11	17.6	16.0	16.7	10.8	7.4	8.9	---	---	---	---	---	---
12	17.5	16.3	16.8	10.7	7.1	8.8	---	---	---	---	---	---
13	17.8	15.8	16.6	12.0	8.0	10.1	---	---	---	---	---	---
14	16.9	14.7	15.6	13.7	10.8	12.2	---	---	---	---	---	---
15	16.4	14.4	15.2	14.4	12.6	13.5	---	---	---	---	---	---
16	14.9	12.6	14.0	14.3	9.8	12.9	---	---	---	---	---	---
17	14.5	11.4	12.8	9.8	6.7	8.3	---	---	---	---	---	---
18	15.1	11.2	13.0	8.3	5.4	6.7	---	---	---	---	---	---
19	16.1	12.9	14.3	8.5	4.8	6.7	---	---	---	---	---	---
20	16.2	13.3	14.7	9.3	7.3	8.5	---	---	---	---	---	---
21	16.3	13.5	14.9	10.3	9.0	9.8	---	---	---	---	---	---
22	15.3	12.6	14.2	9.0	6.7	8.3	---	---	---	---	---	---
23	13.9	10.8	12.3	8.0	5.9	7.0	---	---	---	---	---	---
24	12.3	9.7	11.1	10.0	7.4	8.4	---	---	---	---	---	---
25	10.6	9.3	9.8	8.1	5.9	6.8	---	---	---	---	---	---
26	11.1	8.6	9.6	8.2	5.0	6.4	---	---	---	---	---	---
27	10.6	7.5	9.1	8.7	6.5	7.7	---	---	---	---	---	---
28	10.8	8.2	9.5	11.4	8.7	9.9	---	---	---	---	---	---
29	10.6	7.3	8.7	12.6	9.6	11.6	---	---	---	---	---	---
30	11.1	6.9	8.8	9.7	7.2	8.7	---	---	---	---	---	---
31	11.6	7.6	9.5	---	---	---	---	---	---	---	---	---
MONTH	17.8	6.9	13.8	14.4	4.8	9.8	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	7.9	7.5	7.7	---	---	---
5	---	---	---	---	---	---	7.8	7.5	7.7	---	---	---
6	---	---	---	---	---	---	8.3	7.6	7.8	---	---	---
7	---	---	---	---	---	---	8.7	8.0	8.3	---	---	---
8	---	---	---	---	---	---	8.7	8.0	8.3	---	---	---
9	---	---	---	---	---	---	8.4	7.9	8.1	---	---	---
10	---	---	---	---	---	---	8.2	7.7	7.9	---	---	---
11	---	---	---	---	---	---	8.0	7.3	7.8	---	---	---
12	---	---	---	---	---	---	7.8	7.6	7.7	---	---	---
13	---	---	---	---	---	---	8.3	7.7	8.1	---	---	---
14	---	---	---	---	---	---	8.5	8.1	8.3	---	---	---
15	---	---	---	---	---	---	8.3	8.0	8.2	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	8.4	7.6	8.0	10.6	9.7	10.2
2	---	---	---	---	---	---	8.9	7.9	8.4	10.4	9.7	10.1
3	---	---	---	---	---	---	8.6	7.8	8.2	10.3	9.5	9.9
4	---	---	---	---	---	---	8.6	7.6	8.1	10.0	9.2	9.6
5	---	---	---	---	---	---	---	---	---	9.9	9.1	9.5
6	---	---	---	---	---	---	---	---	---	9.6	9.1	9.4
7	---	---	---	---	---	---	---	---	---	9.9	9.3	9.6
8	---	---	---	---	---	---	---	---	---	9.7	8.8	9.2
9	---	---	---	---	---	---	---	---	---	10.0	9.1	9.6
10	---	---	---	---	---	---	---	---	---	10.1	9.1	9.6
11	---	---	---	---	---	---	---	---	---	9.9	8.9	9.5
12	---	---	---	---	---	---	---	---	---	9.6	8.8	9.2
13	---	---	---	---	---	---	---	---	---	9.9	9.0	9.2
14	6.8	6.3	6.6	---	---	---	11.7	10.8	11.2	10.7	9.8	10.2
15	7.2	6.5	6.8	---	---	---	11.9	11.0	11.5	10.9	10.2	10.6
16	7.4	6.7	7.1	---	---	---	---	---	---	10.9	10.1	10.5
17	---	---	---	---	---	---	11.9	10.9	11.4	11.9	10.9	11.5
18	---	---	---	---	---	---	11.9	10.9	11.4	12.3	11.4	11.9
19	---	---	---	---	---	---	12.2	11.1	11.4	12.0	11.2	11.6
20	---	---	---	---	---	---	13.0	12.1	12.5	11.8	10.6	11.2
21	---	---	---	---	---	---	12.7	11.4	12.1	11.1	10.2	10.7
22	---	---	---	---	---	---	12.0	10.8	11.5	11.2	10.4	10.7
23	---	---	---	---	---	---	11.4	10.4	10.8	12.4	11.2	11.9
24	---	---	---	9.3	7.2	8.1	11.7	11.1	11.4	12.7	11.4	12.1
25	---	---	---	8.7	7.3	8.0	11.8	11.3	11.5	12.1	10.8	11.5
26	---	---	---	9.2	8.0	8.6	11.6	11.0	11.4	11.4	10.2	10.8
27	---	---	---	9.2	8.2	8.7	11.9	11.2	11.6	11.6	10.7	11.1
28	---	---	---	8.8	7.9	8.3	12.1	11.0	11.6	12.1	11.5	11.8
29	---	---	---	8.8	8.2	8.5	11.8	10.6	11.2	12.4	11.6	12.0
30	---	---	---	8.9	7.9	8.3	11.2	10.1	10.7	11.6	11.0	11.4
31	---	---	---	---	---	---	10.8	9.9	10.3	11.3	10.8	11.1
MONTH	---	---	---	---	---	---	---	---	---	12.7	8.8	10.6
		FEBRUARY			MARCH			APRIL			MAY	
1	11.4	10.7	11.1	12.6	11.7	12.0	9.9	9.2	9.5	9.5	8.2	8.9
2	11.6	11.0	11.3	13.0	11.1	12.2	10.6	9.2	9.9	10.0	8.8	9.4
3	11.4	10.6	11.1	11.9	10.6	11.3	11.1	8.7	10.3	9.9	8.6	9.3
4	11.3	10.5	11.0	12.0	10.2	11.2	10.8	9.2	10.0	---	---	---
5	11.7	10.3	11.0	11.2	9.8	10.6	10.8	9.1	10	---	---	---
6	11.5	10.2	10.8	11.2	9.7	10.5	10.3	9.0	9.7	---	---	---
7	11.2	10.0	10.6	11.2	9.6	10.4	10.0	9.7	9.9	---	---	---
8	10.5	9.5	10.0	11.2	9.9	10.4	10.2	9.2	9.8	---	---	---
9	10.1	9.7	9.9	11.6	10.2	11.0	10.2	8.7	9.6	---	---	---
10	11.1	9.8	10.4	11.3	9.9	10.6	10.4	8.9	9.7	---	---	---
11	11.7	10.6	11.2	11.1	9.8	10.5	10.3	8.9	9.7	9.9	8.9	9.4
12	11.4	10.1	10.8	11.1	9.0	10.2	10.0	9.6	9.8	9.7	8.8	9.3
13	11.1	10.1	10.6	10.3	8.8	9.6	10.6	9.9	10.2	9.5	8.8	9.1
14	10.5	9.9	10.2	10.2	9.3	9.7	11.0	9.7	10.4	9.3	8.7	9.0
15	10.7	9.4	10.1	10.9	9.4	10.1	11.0	9.3	10.2	9.4	9.0	9.2
16	10.1	9.3	9.7	10.6	9.8	10.3	11.2	9.5	10.4	9.8	9.1	9.4
17	10.8	9.8	10.3	10.9	10.3	10.7	11.2	9.4	10.4	9.9	9.0	9.4
18	11.4	10.0	10.8	11.4	9.7	10.6	10.9	9.1	10.0	9.5	8.9	9.1
19	11.4	9.9	10.8	11.1	9.6	10.4	10.3	9.0	9.6	9.2	8.8	9.0
20	11.0	10.5	10.8	10.8	9.5	10.4	9.9	9.0	9.4	9.1	8.8	9.0
21	11.0	10.2	10.6	11.3	10.2	10.7	10.0	8.1	8.9	9.3	8.8	9.0
22	11.3	10.1	10.8	11.1	10.8	10.9	9.1	8.3	8.7	9.4	8.7	9.0
23	11.3	10.0	10.7	10.8	9.6	10.3	9.2	8.6	8.8	9.1	8.2	8.8
24	11.0	10.4	10.7	10.8	9.8	10.4	9.6	8.4	9.0	9.4	8.4	9.0
25	11.5	10.5	11.1	10.9	9.5	10.3	9.2	7.9	8.7	9.7	9.1	9.4
26	12.1	10.7	11.4	10.9	9.6	10.2	9.5	8.6	9.0	9.8	9.0	9.4
27	11.9	11.3	11.6	10.5	10.1	10.3	9.4	8.2	8.9	9.7	9.0	9.3
28	12.1	11.3	11.7	10.4	9.9	10.1	9.8	8.7	9.2	9.6	9.1	9.3
29	---	---	---	10.4	9.2	9.9	9.6	8.6	9.1	9.8	9.2	9.5
30	---	---	---	10.3	8.8	9.6	9.1	8.4	8.8	9.5	9.0	9.3
31	---	---	---	9.8	9.1	9.5	---	---	---	9.6	9.1	9.3
MONTH	12.1	9.3	10.8	13.0	8.8	10.5	11.2	7.9	9.6	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.4	9.1	9.2	---	---	---	---	---	---	8.7	8.3	8.5
2	9.5	9.0	9.4	---	---	---	---	---	---	8.8	8.2	8.5
3	9.4	9.1	9.3	---	---	---	---	---	---	8.6	8.2	8.4
4	9.3	8.7	9.1	---	---	---	---	---	---	9.0	8.4	8.7
5	9.4	8.9	9.1	---	---	---	---	---	---	8.8	8.3	8.6
6	9.2	8.8	9.0	---	---	---	---	---	---	8.9	7.9	8.4
7	9.2	8.8	9.0	---	---	---	---	---	---	8.4	7.8	8.1
8	9.2	8.9	9.0	8.8	8.2	8.5	---	---	---	---	---	---
9	9.2	8.8	9.0	8.8	8.1	8.5	---	---	---	---	---	---
10	9.2	8.8	9.0	8.5	7.7	8.1	---	---	---	---	---	---
11	9.2	8.9	9.1	---	---	---	---	---	---	---	---	---
12	9.2	8.0	8.9	---	---	---	---	---	---	---	---	---
13	9.0	8.0	8.7	---	---	---	---	---	---	---	---	---
14	8.9	8.2	8.6	---	---	---	---	---	---	---	---	---
15	8.9	8.3	8.6	---	---	---	---	---	---	---	---	---
16	9.4	8.5	8.8	---	---	---	---	---	---	---	---	---
17	9.1	8.6	8.9	---	---	---	---	---	---	---	---	---
18	9.4	8.7	9.0	---	---	---	---	---	---	---	---	---
19	9.2	8.5	8.9	---	---	---	---	---	---	---	---	---
20	9.2	8.6	8.9	---	---	---	---	---	---	---	---	---
21	9.1	8.6	8.9	---	---	---	---	---	---	---	---	---
22	9.4	8.6	9.0	---	---	---	---	---	---	---	---	---
23	9.0	8.3	8.7	---	---	---	---	---	---	---	---	---
24	9.0	8.2	8.6	---	---	---	---	---	---	---	---	---
25	8.7	8.1	8.4	---	---	---	---	---	---	---	---	---
26	8.7	8.2	8.4	---	---	---	---	---	---	---	---	---
27	8.9	8.0	8.4	---	---	---	---	---	---	---	---	---
28	9.3	7.7	8.3	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	8.3	7.3	7.8	---	---	---	---	---	---
2	---	---	---	7.8	7.0	7.4	---	---	---	---	---	---
3	---	---	---	8.3	7.2	7.7	---	---	---	---	---	---
4	---	---	---	8.0	6.9	7.5	---	---	---	---	---	---
5	---	---	---	7.6	6.7	7.1	---	---	---	---	---	---
6	---	---	---	7.2	6.5	6.9	---	---	---	---	---	---
7	---	---	---	7.5	6.5	7.0	---	---	---	---	---	---
8	---	---	---	7.6	6.4	7.0	---	---	---	---	---	---
9	---	---	---	7.2	6.1	6.7	---	---	---	---	---	---
10	---	---	---	7.3	6.1	6.6	---	---	---	---	---	---
11	---	---	---	7.7	6.7	7.3	---	---	---	---	---	---
12	---	---	---	8.0	7.0	7.5	---	---	---	---	---	---
13	---	---	---	7.8	6.8	7.4	---	---	---	---	---	---
14	---	---	---	7.3	6.6	7.0	---	---	---	---	---	---
15	---	---	---	7.3	6.6	6.9	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	8.6	7.4	8.0	---	---	---	---	---	---	---	---	---
19	7.7	6.5	7.1	---	---	---	---	---	---	---	---	---
20	7.6	6.4	7.0	---	---	---	---	---	---	---	---	---
21	7.3	6.5	6.9	---	---	---	---	---	---	---	---	---
22	8.2	6.9	7.2	---	---	---	---	---	---	---	---	---
23	8.7	7.8	8.2	---	---	---	---	---	---	---	---	---
24	9.0	8.2	8.6	---	---	---	---	---	---	---	---	---
25	9.0	8.1	8.7	---	---	---	---	---	---	---	---	---
26	8.8	8.1	8.5	---	---	---	---	---	---	---	---	---
27	9.2	8.1	8.6	---	---	---	---	---	---	---	---	---
28	8.8	7.8	8.3	---	---	---	---	---	---	---	---	---
29	9.0	8.0	8.5	---	---	---	---	---	---	---	---	---
30	9.2	7.6	8.4	---	---	---	---	---	---	---	---	---
31	8.7	7.5	8.1	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	89	86	87	---	---	---
5	---	---	---	---	---	---	87	85	86	---	---	---
6	---	---	---	---	---	---	89	85	87	---	---	---
7	---	---	---	---	---	---	90	88	89	---	---	---
8	---	---	---	---	---	---	90	88	89	---	---	---
9	---	---	---	---	---	---	89	87	88	---	---	---
10	---	---	---	---	---	---	88	85	87	---	---	---
11	---	---	---	---	---	---	88	81	86	---	---	---
12	---	---	---	---	---	---	86	84	85	---	---	---
13	---	---	---	---	---	---	90	84	88	---	---	---
14	---	---	---	---	---	---	92	89	90	---	---	---
15	---	---	---	---	---	---	92	89	90	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	78	73	74	94	90	92
2	---	---	---	---	---	---	78	73	75	94	90	92
3	---	---	---	---	---	---	76	71	73	94	90	92
4	---	---	---	---	---	---	74	69	72	93	89	91
5	---	---	---	---	---	---	---	---	---	92	88	90
6	---	---	---	---	---	---	---	---	---	91	88	89
7	---	---	---	---	---	---	---	---	---	91	87	89
8	---	---	---	---	---	---	---	---	---	89	86	87
9	---	---	---	---	---	---	---	---	---	89	86	88
10	---	---	---	---	---	---	---	---	---	90	85	88
11	---	---	---	---	---	---	---	---	---	90	85	87
12	---	---	---	---	---	---	---	---	---	89	84	87
13	---	---	---	---	---	---	---	---	---	97	86	90
14	71	67	69	---	---	---	96	92	94	97	94	95
15	71	68	69	---	---	---	97	94	95	96	92	94
16	72	68	70	---	---	---	---	---	---	94	91	93
17	---	---	---	---	---	---	98	95	97	96	92	94
18	---	---	---	---	---	---	98	94	97	96	93	94
19	---	---	---	---	---	---	97	94	96	95	92	94
20	---	---	---	---	---	---	99	96	98	94	91	93
21	---	---	---	---	---	---	99	96	98	94	91	92
22	---	---	---	---	---	---	99	95	97	93	90	91
23	---	---	---	---	---	---	98	94	97	95	91	93
24	---	---	---	94	74	83	98	95	96	95	93	94
25	---	---	---	81	74	78	97	94	95	95	91	93
26	---	---	---	83	76	79	96	94	95	94	91	93
27	---	---	---	83	76	79	97	94	96	96	93	94
28	---	---	---	80	75	77	97	94	95	98	95	97
29	---	---	---	80	77	79	97	92	94	98	95	96
30	---	---	---	81	75	78	95	92	94	97	93	95
31	---	---	---	---	---	---	95	91	93	96	93	94
MONTH	---	---	---	---	---	---	---	---	---	98	84	92
		FEBRUARY			MARCH			APRIL			MAY	
1	95	92	94	102	99	101	95	90	92	93	86	89
2	96	92	94	104	92	100	96	90	94	94	89	92
3	95	91	93	97	93	94	99	87	96	94	86	91
4	95	92	94	97	92	94	99	94	96	---	---	---
5	96	91	93	95	91	93	101	95	98	---	---	---
6	95	90	93	95	92	93	99	95	97	---	---	---
7	94	89	92	95	90	92	100	97	98	---	---	---
8	92	88	90	95	90	93	100	95	97	---	---	---
9	93	88	90	95	91	94	101	95	97	---	---	---
10	92	89	91	95	90	93	102	96	99	---	---	---
11	93	90	91	94	89	92	102	97	100	101	96	98
12	93	89	91	94	86	90	102	97	100	100	96	98
13	92	88	91	92	87	89	102	97	100	100	96	97
14	92	88	89	91	87	89	104	100	102	99	95	96
15	91	86	89	93	88	90	103	99	101	97	95	96
16	89	86	87	93	88	91	105	99	102	99	95	97
17	92	88	90	95	90	92	105	97	101	99	95	97
18	93	88	91	96	89	92	104	96	100	98	94	96
19	93	89	92	93	88	91	101	92	97	97	94	95
20	95	91	93	96	89	93	102	92	97	95	92	94
21	98	91	95	99	95	97	100	86	91	96	91	95
22	100	97	98	100	97	99	91	86	89	96	93	94
23	100	95	98	99	96	98	89	85	87	96	88	93
24	101	96	98	101	97	99	88	81	85	97	88	94
25	102	98	100	102	97	99	86	81	83	97	94	96
26	103	99	101	102	98	100	88	83	86	98	95	97
27	103	99	101	101	97	99	87	83	85	99	95	96
28	102	99	100	99	94	96	90	86	88	98	95	97
29	---	---	---	97	92	94	92	86	89	99	95	97
30	---	---	---	96	90	93	91	85	88	98	95	97
31	---	---	---	94	90	92	---	---	---	99	96	97
MONTH	103	86	94	104	86	94	105	81	94	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	97	94	96	---	---	---	---	---	---	97	94	95
2	97	93	96	---	---	---	---	---	---	97	92	95
3	98	95	96	---	---	---	---	---	---	96	91	94
4	98	93	96	---	---	---	---	---	---	97	94	96
5	100	96	98	---	---	---	---	---	---	99	93	95
6	99	96	97	---	---	---	---	---	---	96	87	93
7	99	96	98	---	---	---	---	---	---	90	87	88
8	100	97	98	96	91	94	---	---	---	---	---	---
9	100	97	98	95	91	93	---	---	---	---	---	---
10	101	97	99	93	86	90	---	---	---	---	---	---
11	101	98	100	---	---	---	---	---	---	---	---	---
12	101	88	98	---	---	---	---	---	---	---	---	---
13	98	88	95	---	---	---	---	---	---	---	---	---
14	97	92	95	---	---	---	---	---	---	---	---	---
15	98	94	96	---	---	---	---	---	---	---	---	---
16	104	94	97	---	---	---	---	---	---	---	---	---
17	99	94	96	---	---	---	---	---	---	---	---	---
18	99	94	96	---	---	---	---	---	---	---	---	---
19	100	94	96	---	---	---	---	---	---	---	---	---
20	97	92	95	---	---	---	---	---	---	---	---	---
21	96	93	94	---	---	---	---	---	---	---	---	---
22	99	93	96	---	---	---	---	---	---	---	---	---
23	96	92	94	---	---	---	---	---	---	---	---	---
24	97	91	94	---	---	---	---	---	---	---	---	---
25	94	90	92	---	---	---	---	---	---	---	---	---
26	95	89	92	---	---	---	---	---	---	---	---	---
27	98	90	93	---	---	---	---	---	---	---	---	---
28	105	87	92	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0344789265 BOYD BRANCH AT BENT CREEK GAP ROAD NEAR LAKE POWHATAN, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	76	72	74	---	---	---	---	---	---
2	---	---	---	74	70	72	---	---	---	---	---	---
3	---	---	---	75	70	73	---	---	---	---	---	---
4	---	---	---	74	68	71	---	---	---	---	---	---
5	---	---	---	73	68	71	---	---	---	---	---	---
6	---	---	---	71	67	69	---	---	---	---	---	---
7	---	---	---	72	67	69	---	---	---	---	---	---
8	---	---	---	72	65	69	---	---	---	---	---	---
9	---	---	---	71	64	67	---	---	---	---	---	---
10	---	---	---	68	62	65	---	---	---	---	---	---
11	---	---	---	70	65	67	---	---	---	---	---	---
12	---	---	---	72	66	69	---	---	---	---	---	---
13	---	---	---	74	68	70	---	---	---	---	---	---
14	---	---	---	72	66	70	---	---	---	---	---	---
15	---	---	---	75	69	71	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	84	78	82	---	---	---	---	---	---	---	---	---
19	79	70	75	---	---	---	---	---	---	---	---	---
20	78	69	74	---	---	---	---	---	---	---	---	---
21	76	69	73	---	---	---	---	---	---	---	---	---
22	83	73	76	---	---	---	---	---	---	---	---	---
23	85	80	82	---	---	---	---	---	---	---	---	---
24	85	82	84	---	---	---	---	---	---	---	---	---
25	85	78	82	---	---	---	---	---	---	---	---	---
26	83	78	80	---	---	---	---	---	---	---	---	---
27	82	78	80	---	---	---	---	---	---	---	---	---
28	81	74	78	---	---	---	---	---	---	---	---	---
29	80	76	78	---	---	---	---	---	---	---	---	---
30	81	74	78	---	---	---	---	---	---	---	---	---
31	79	73	76	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC

LOCATION.--Lat 35°29'37", long 82°36'40", Buncombe County, Hydrologic Unit 06010105, on left bank at upstream side of stone bridge on Bent Creek Gap Road, 0.75 mi northwest of Glen Bald, and 1.1 mi upstream from mouth.

DRAINAGE AREA.--8.74 mi^2.

PERIOD OF RECORD.--November 2001 to current year.

REVISED RECORDS.--WDR NC-04-1: 2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,080 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 300 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Sept. 12, 13, 2002. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	14	25	17	14	16	24	17	15	35	24	17
2	30	14	22	16	13	14	28	16	24	29	21	15
3	27	15	20	16	14	13	24	15	19	26	20	14
4	25	59	19	16	14	13	22	15	17	25	18	13
5	23	29	18	16	13	13	21	15	15	22	17	13
6	21	21	18	16	13	13	20	15	15	21	17	12
7	20	19	18	15	13	12	20	15	14	91	22	12
8	19	17	17	15	13	15	22	14	16	53	26	12
9	19	16	24	15	13	13	20	14	14	36	21	11
10	19	15	23	14	13	12	18	17	13	29	19	11
11	18	15	21	14	12	12	18	16	14	34	17	11
12	18	25	20	14	12	12	19	15	33	34	16	11
13	19	20	19	18	12	12	23	14	60	32	18	10
14	18	18	18	36	13	12	27	15	36	29	17	10
15	17	17	17	23	12	11	24	15	26	27	15	9.9
16	16	16	16	20	12	13	22	14	21	25	15	10
17	16	16	16	18	12	13	20	14	18	23	16	10
18	15	15	16	17	11	12	19	13	18	21	20	9.9
19	17	15	16	17	11	12	19	13	22	30	18	9.4
20	16	15	15	17	12	12	18	25	21	37	17	9.2
21	15	14	15	16	18	11	18	18	19	33	15	9.1
22	15	14	15	16	16	13	22	16	17	27	15	9.0
23	15	16	54	15	14	21	22	15	15	24	15	9.0
24	15	46	32	14	15	17	21	14	14	22	14	8.8
25	15	38	26	15	13	15	19	13	14	20	14	8.8
26	14	27	23	15	13	14	18	13	15	18	13	10
27	14	24	21	14	13	17	18	13	32	37	13	9.7
28	15	23	20	13	17	102	17	13	133	31	13	9.0
29	18	20	19	14	---	46	17	12	129	37	13	9.1
30	15	20	18	15	---	32	18	12	51	31	40	8.9
31	14	---	18	14	---	27	---	12	---	27	22	---
TOTAL	572	633	639	511	371	570	618	458	870	966	561	321.8
MEAN	18.5	21.1	20.6	16.5	13.2	18.4	20.6	14.8	29.0	31.2	18.1	10.7
MAX	34	59	54	36	18	102	28	25	133	91	40	17
MIN	14	14	15	13	11	11	17	12	13	18	13	8.8
CFSM	2.11	2.41	2.36	1.89	1.52	2.10	2.36	1.69	3.32	3.57	2.07	1.23
IN.	2.43	2.69	2.72	2.17	1.58	2.43	2.63	1.95	3.70	4.11	2.39	1.37

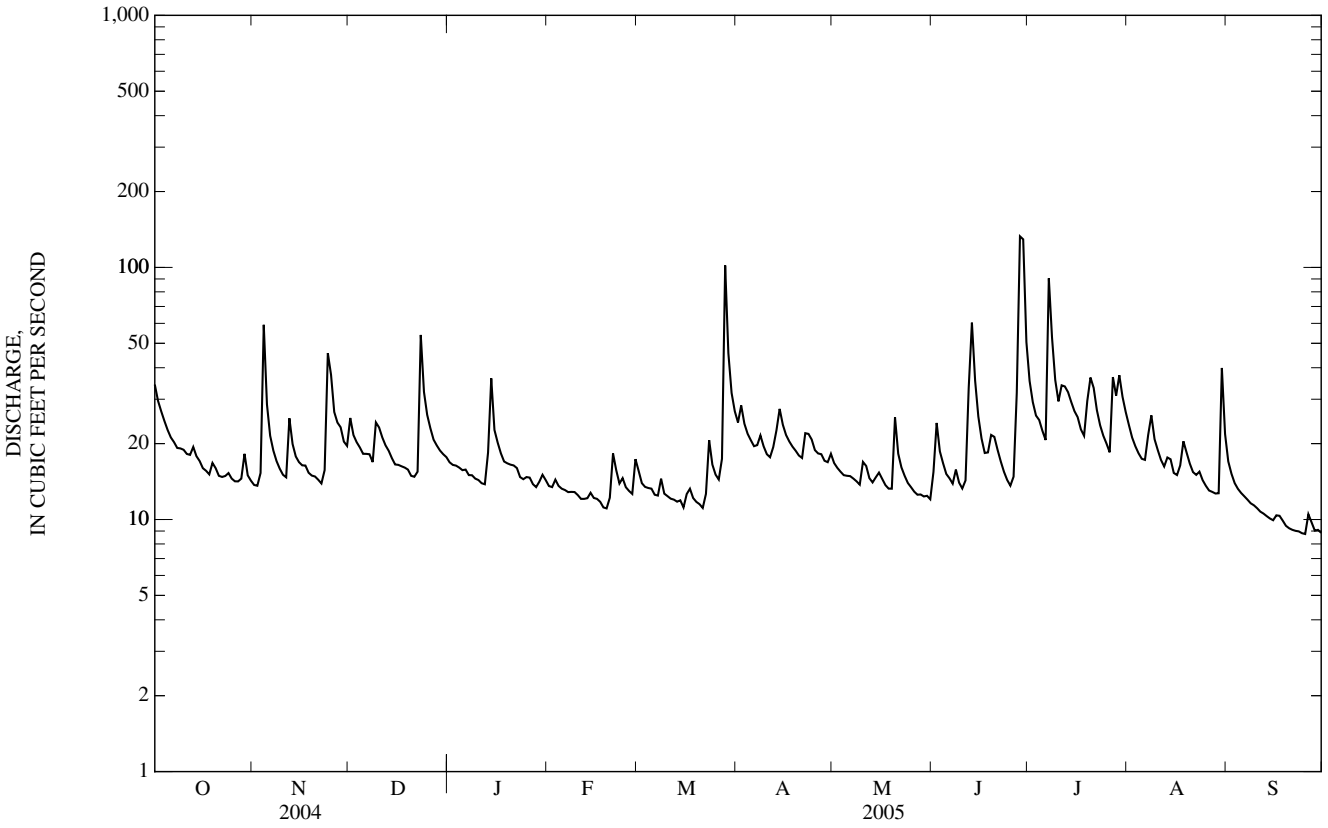
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	11.1	14.0	15.0	11.9	14.4	15.3	17.5	18.1	16.6	17.0	11.0	24.9
MAX	18.5	22.2	20.6	16.5	19.8	21.5	22.8	35.9	29.0	31.2	18.1	69.0
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	4.77	3.61	3.94	7.30	6.94	9.06	7.92	8.24	5.18	4.43	2.22	5.57
(WY)	(2003)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)	(2002)

03447894 BENT CREEK AT BENT CREEK GAP NEAR GLEN BALD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005	
ANNUAL TOTAL	7,061.3		7,090.8			
ANNUAL MEAN	19.3		19.4		18.6	
HIGHEST ANNUAL MEAN					19.4	2005
LOWEST ANNUAL MEAN					17.9	2003
HIGHEST DAILY MEAN	663	Sep 17	133	Jun 28	663	Sep 17, 2004
LOWEST DAILY MEAN	4.3	Aug 28	8.8	Sep 24	0.75	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	4.9	Aug 22	9.0	Sep 19	0.91	Sep 7, 2002
MAXIMUM PEAK FLOW			594	Jun 28	3,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.01	Jun 28	9.81	Sep 17, 2004
INSTANTANEOUS LOW FLOW			8.3*	Sep 25	0.71*	Sep 11, 2002
ANNUAL RUNOFF (CFSM)	2.21		2.22		2.13	
ANNUAL RUNOFF (INCHES)	30.05		30.18		28.97	
10 PERCENT EXCEEDS	25		29		26	
50 PERCENT EXCEEDS	14		16		15	
90 PERCENT EXCEEDS	6.6		12		8.3	

* See REMARKS.



0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC

LOCATION.--Lat 35°41'00", long 82°19'59", Buncombe County, Hydrologic Unit 06010105, on left bank 400 ft downstream of Sugar Springs Cove, 0.6 mi upstream from Burnette Reservoir, and 2.3 mi north of Walkertown.

DRAINAGE AREA.--14.5 mi^2.

PERIOD OF RECORD.--February 1989 to current year.

REVISED RECORDS.--WDR NC-91-1: 1989(M). WDR NC-04-1: 1989-1998(M), 2000(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 1,000 ft^3/s on basis of slope area measurement of peak flow. Maximum gage height for period of record from floodmark. Minimum discharge for period of record also occurred Sept. 15, 16, 18, 19, Oct. 3, 4, 1998.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	31	77	40	27	44	65	47	22	80	31	97
2	68	30	63	38	27	40	113	43	47	72	29	75
3	62	32	56	37	35	39	92	40	33	67	27	62
4	55	127	51	35	32	38	100	37	30	61	27	53
5	50	83	47	34	32	38	116	35	26	55	31	47
6	46	61	49	33	32	36	103	34	26	50	32	41
7	43	52	52	32	32	37	90	32	24	150	48	37
8	40	46	48	33	32	65	123	30	30	125	185	33
9	38	42	75	31	34	52	99	29	41	86	117	30
10	36	38	84	30	38	48	81	28	40	72	89	28
11	34	36	74	29	33	46	70	27	42	89	65	26
12	33	106	65	28	32	43	66	26	147	122	53	24
13	39	83	60	47	33	43	73	25	269	85	47	22
14	34	66	54	144	36	48	87	26	115	77	44	21
15	32	57	50	70	36	43	73	30	78	174	43	19
16	30	51	48	58	37	43	65	26	62	180	39	18
17	29	47	46	50	35	42	58	25	52	103	36	18
18	28	44	44	45	32	39	53	24	57	82	82	16
19	33	41	42	42	31	39	48	23	60	69	71	15
20	32	38	e40	40	33	37	44	34	88	61	53	14
21	30	36	39	39	97	36	40	30	93	54	45	13
22	29	34	37	37	85	37	42	27	68	51	58	13
23	28	39	162	e34	65	81	46	27	62	46	75	14
24	31	115	87	33	62	60	43	25	52	41	62	13
25	30	104	68	32	57	53	41	23	46	37	53	13
26	28	77	59	32	51	49	46	22	43	34	48	15
27	29	67	53	30	47	53	53	21	146	32	44	14
28	30	65	49	29	49	158	48	21	104	31	40	13
29	36	58	46	29	---	108	49	20	103	40	39	13
30	37	53	44	31	---	84	50	19	96	33	365	12
31	33	---	41	29	---	71	---	19	---	33	154	---
TOTAL	1,181	1,759	1,810	1,251	1,172	1,650	2,077	875	2,102	2,292	2,132	829
MEAN	38.1	58.6	58.4	40.4	41.9	53.2	69.2	28.2	70.1	73.9	68.8	27.6
MAX	78	127	162	144	97	158	123	47	269	180	365	97
MIN	28	30	37	28	27	36	40	19	22	31	27	12
CFSM	2.63	4.04	4.03	2.78	2.89	3.67	4.77	1.95	4.83	5.10	4.74	1.91
IN.	3.03	4.51	4.64	3.21	3.01	4.23	5.33	2.24	5.39	5.88	5.47	2.13

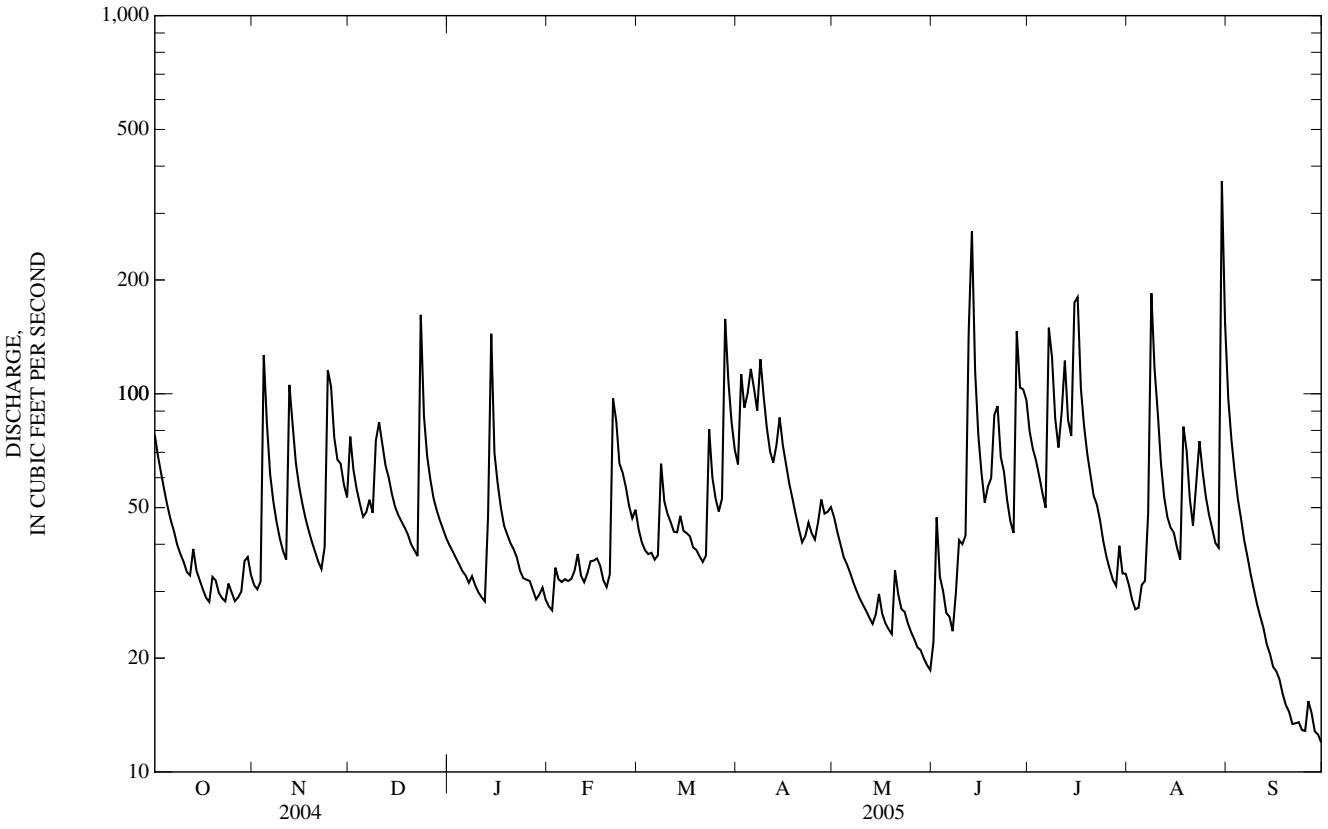
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

MEAN	26.9	35.5	42.1	56.5	57.2	67.0	55.7	44.1	37.2	27.0	31.6	36.5
MAX	79.1	84.6	79.8	134	120	111	86.4	75.3	78.0	73.9	123	311
(WY)	(1996)	(1993)	(1993)	(1995)	(1990)	(1993)	(2003)	(2003)	(1995)	(2005)	(1994)	(2004)
MIN	2.49	4.88	14.8	27.6	27.7	37.1	18.6	18.9	13.5	5.71	3.96	1.92
(WY)	(1999)	(1999)	(1999)	(2004)	(2002)	(2004)	(1995)	(2001)	(1998)	(1998)	(1998)	(1998)

0344894205 NORTH FORK SWANNANOA RIVER NEAR WALKERTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005	
ANNUAL TOTAL	21,876		19,130			
ANNUAL MEAN	59.8		52.4		42.7	
HIGHEST ANNUAL MEAN					58.1	2004
LOWEST ANNUAL MEAN					24.1	2002
HIGHEST DAILY MEAN	2,310	Sep 8	365	Aug 30	2,310	Sep 8, 2004
LOWEST DAILY MEAN	10	Jul 23	12	Sep 30	1.5	Sep 14, 1998
ANNUAL SEVEN-DAY MINIMUM	12	Jul 17	13	Sep 24	1.6	Sep 12, 1998
MAXIMUM PEAK FLOW			1,080	Jul 15	7,000*	Sep 8, 2004
MAXIMUM PEAK STAGE			5.46	Jul 15	10.33*	Sep 8, 2004
INSTANTANEOUS LOW FLOW			11	Sep 30	1.5*	Sep 14, 1998
ANNUAL RUNOFF (CFSM)	4.12		3.61		2.95	
ANNUAL RUNOFF (INCHES)	56.12		49.08		40.05	
10 PERCENT EXCEEDS	77		89		81	
50 PERCENT EXCEEDS	34		43		30	
90 PERCENT EXCEEDS	20		26		7.2	

* See REMARKS.
e Estimated.



03450000 BEETREE CREEK NEAR SWANNANOA, NC

LOCATION.--Lat 35°39'11", long 82°24'19", Buncombe County, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi^2.

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,726.39 ft above NGVD of 1929. Prior to May 5, 2005, at site 70 ft upstream at datum 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 240 ft^3/s on basis of computation of peak flow over weir. Minimum discharge for period of record also occurred July 25, 1996.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	9.5	19	14	7.7	14	23	15	6.1	15	13	28
2	17	9.8	17	13	7.1	13	32	14	8.1	13	11	22
3	16	11	16	13	9.9	13	32	12	6.5	13	10	19
4	15	28	15	12	9.0	13	35	11	6.2	12	10	16
5	14	23	14	12	9.0	13	33	11	5.9	13	11	14
6	13	18	15	12	8.7	13	28	9.8	6.1	13	10	13
7	13	16	16	11	8.1	13	25	8.9	5.7	75	13	12
8	12	14	14	11	8.2	16	26	8.1	25	74	51	11
9	12	13	21	10	8.4	14	23	7.5	10	43	55	10
10	11	12	24	9.8	8.7	13	21	7.0	8.1	31	49	9.5
11	11	11	25	e9.6	e7.6	13	18	6.6	8.2	31	32	9.0
12	11	29	22	e9.4	e7.2	13	18	6.0	20	39	24	8.7
13	13	26	21	13	e7.6	13	21	5.5	80	35	23	8.1
14	12	21	19	31	e8.4	13	27	5.9	60	36	20	7.7
15	11	19	17	21	e8.4	11	24	6.7	37	33	17	7.4
16	10	17	16	18	e8.6	12	21	5.9	26	28	15	7.5
17	9.5	15	15	15	e8.0	12	19	5.5	21	24	13	7.3
18	9.4	14	14	14	e7.2	12	17	5.3	23	21	21	6.8
19	11	13	14	13	e6.8	12	15	5.2	20	18	17	6.5
20	10	13	13	13	7.2	11	13	12	26	24	14	6.3
21	10	12	13	13	29	11	13	8.6	25	21	12	6.1
22	9.7	11	13	12	29	12	14	7.7	21	18	38	6.0
23	9.6	13	52	12	22	20	15	7.4	18	16	52	5.9
24	11	27	36	e11	20	18	14	6.9	15	14	34	5.6
25	9.9	31	28	11	17	17	15	6.5	13	13	27	5.6
26	9.6	26	23	11	15	16	16	6.2	12	11	23	7.2
27	9.8	22	20	10	14	16	17	5.9	19	11	20	6.5
28	9.9	20	18	9.2	16	42	16	5.8	17	11	18	5.5
29	10	18	17	8.8	---	39	16	5.5	18	14	16	5.3
30	10	17	16	9.8	---	31	16	5.2	17	12	45	5.0
31	9.7	---	15	8.8	---	26	---	5.0	---	15	39	---
TOTAL	359.1	529.3	598	391.4	323.8	505	623	239.6	583.9	747	753	288.5
MEAN	11.6	17.6	19.3	12.6	11.6	16.3	20.8	7.73	19.5	24.1	24.3	9.62
MAX	19	31	52	31	29	42	35	15	80	75	55	28
MIN	9.4	9.5	13	8.8	6.8	11	13	5.0	5.7	11	10	5.0
CFSM	2.12	3.23	3.53	2.31	2.12	2.98	3.80	1.42	3.56	4.41	4.45	1.76
IN.	2.45	3.61	4.07	2.67	2.21	3.44	4.24	1.63	3.98	5.09	5.13	1.97

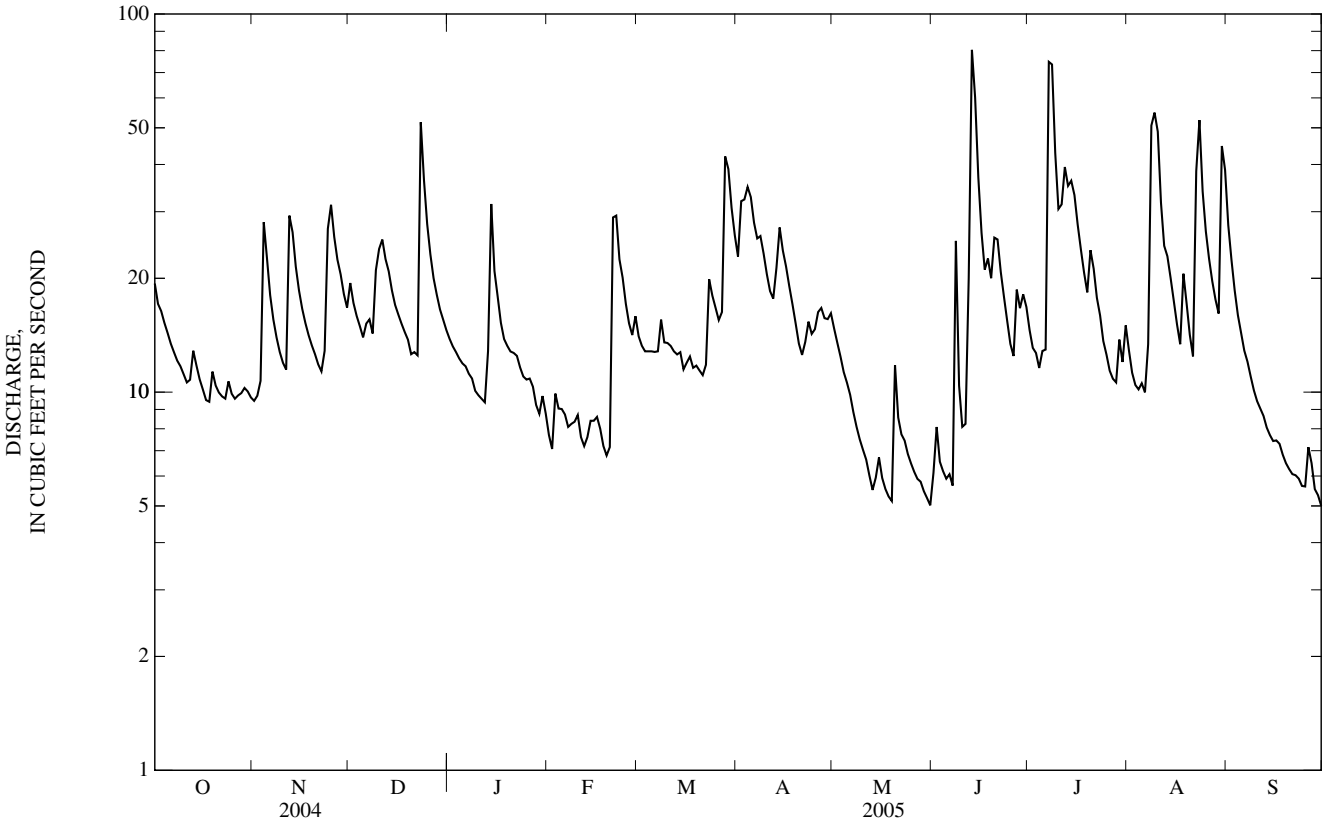
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2005,@ BY WATER YEAR (WY)

MEAN	6.15	8.44	10.5	13.4	15.4	18.7	16.8	11.8	8.63	6.43	6.72	6.10
MAX	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
(WY)	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
(WY)	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

03450000 BEETREE CREEK NEAR SWANNANOA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1926 - 2005[@]	
ANNUAL TOTAL	6,464.8		5,941.6			
ANNUAL MEAN	17.7		16.3		10.8	
HIGHEST ANNUAL MEAN					17.8	1949
LOWEST ANNUAL MEAN					5.37	2002
HIGHEST DAILY MEAN	504	Sep 17	80	Jun 13	528	Aug 13, 1940
LOWEST DAILY MEAN	3.0	Jul 29	5.0	May 31	0.30	Sep 30, 1954
ANNUAL SEVEN-DAY MINIMUM	3.5	Jul 23	5.7	May 26	0.40	Sep 24, 1954
MAXIMUM PEAK FLOW			203	Aug 22	1,370*	Aug 13, 1940
MAXIMUM PEAK STAGE			2.83	Aug 22	6.20	Aug 13, 1940
INSTANTANEOUS LOW FLOW			4.7	Sep 30	0.28*	Jul 24, 1996
ANNUAL RUNOFF (CFSM)	3.24		2.98		1.97	
ANNUAL RUNOFF (INCHES)	44.05		40.48		26.79	
10 PERCENT EXCEEDS	25		28		22	
50 PERCENT EXCEEDS	10		13		7.4	
90 PERCENT EXCEEDS	5.2		7.0		1.6	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03451000 SWANNANOA RIVER AT BILTMORE, NC

LOCATION.--Lat 35°34'06", long 82°32'41", Buncombe County, Hydrologic Unit 06010105, on left bank at Biltmore, 100 ft downstream of Biltmore Avenue Bridge, 200 ft upstream from Southern Railway bridge, and 1.6 mi upstream from mouth.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--October 1920 to September 1926, May 1934 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 803: 1921(M), 1923(M), 1925(M). WSP 823: Drainage area. WSP 1306: 1921(M), 1924(M), 1926(M).

GAGE.--Water-stage recorder and concrete contro1. Datum of gage is 1,976.58 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Dec. 1, 1920, to Sept. 30, 1926, nonrecording gage at site 100 ft upstream at same datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, and those above 6,500 ft^3/s, which are poor. Considerable regulation from 1925-50 (reservoir silted) by Lake Craig, 3.6 mi upstream from station. City of Asheville diverted an average of 29.6 ft^3/s from Burnett Lake (station 03448959) on North Fork Swannanoa River, 20 mi upstream from station. An average of 35.2 ft^3/s was discharged downstream of station into the French Broad River as treated sewage effluent. Maximum discharge for period of record, from rating curve extended above 9,100 ft^3/s on basis of computation of peak flow over dam 3.6 mi upstream from station. Minimum discharge for period of record occurred several days in Oct. 1941. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed: 26 ft; discharge: 40,000 ft^3/s in April 1791, from studies by Tennessee Valley Authority. Flood of July 1916 reached a stage of 20.7 ft; discharge, 23,000 ft^3/s, from flood profile by Tennessee Valley Authority. Flood of Aug. 16, 1928 reached a stage of 18.74 ft, from floodmarks; discharge, 17,800 ft^3/s. High stages are subject to backwater from French Broad River.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	331	131	258	172	129	218	276	189	126	324	152	321
2	295	131	233	163	124	188	399	176	185	333	135	260
3	267	160	216	158	149	170	428	170	153	300	124	217
4	245	412	197	152	141	162	366	162	139	262	118	186
5	224	358	184	147	131	159	363	157	162	235	151	166
6	207	270	196	145	128	154	351	151	135	262	132	149
7	198	222	209	140	127	150	322	143	124	915	194	138
8	189	195	188	139	127	179	381	138	174	738	539	128
9	181	174	320	135	127	173	355	135	166	479	551	120
10	177	160	344	131	130	167	304	149	166	375	463	111
11	170	151	348	128	124	160	269	134	205	427	325	106
12	169	390	296	125	121	154	259	126	245	489	249	101
13	199	354	266	192	122	149	301	135	740	469	231	95
14	171	290	236	635	133	153	384	155	580	457	202	91
15	161	247	215	342	130	147	310	160	361	407	175	87
16	152	220	203	272	128	157	276	134	263	492	162	88
17	144	201	195	229	124	177	254	123	218	401	153	88
18	139	188	186	199	119	155	235	118	202	311	318	84
19	167	178	180	187	110	146	222	118	209	285	233	79
20	155	167	169	181	134	141	203	198	255	317	192	75
21	143	157	160	172	402	137	195	145	284	305	167	73
22	145	151	157	162	372	148	213	133	232	225	354	71
23	139	176	460	156	286	270	235	126	207	210	365	71
24	166	388	429	158	e270	220	208	118	178	183	252	70
25	146	441	327	142	226	203	191	112	159	166	208	68
26	139	352	274	139	203	188	188	108	151	151	183	83
27	139	299	237	133	188	214	197	107	491	203	683	85
28	138	284	214	124	257	621	188	107	420	157	173	72
29	147	242	201	130	---	469	190	104	369	267	128	70
30	140	218	189	146	---	371	202	102	337	182	505	69
31	137	---	181	138	---	314	---	99	---	170	375	---
TOTAL	5,520	7,307	7,468	5,572	4,762	6,414	8,265	4,232	7,636	10,497	8,192	3,422
MEAN	178	244	241	180	170	207	276	137	255	339	264	114
MAX	331	441	460	635	402	621	428	198	740	915	683	321
MIN	137	131	157	124	110	137	188	99	124	151	118	68
CFSM	1.37	1.87	1.85	1.38	1.31	1.59	2.12	1.05	1.96	2.60	2.03	0.88
IN.	1.58	2.09	2.14	1.59	1.36	1.84	2.37	1.21	2.19	3.00	2.34	0.98

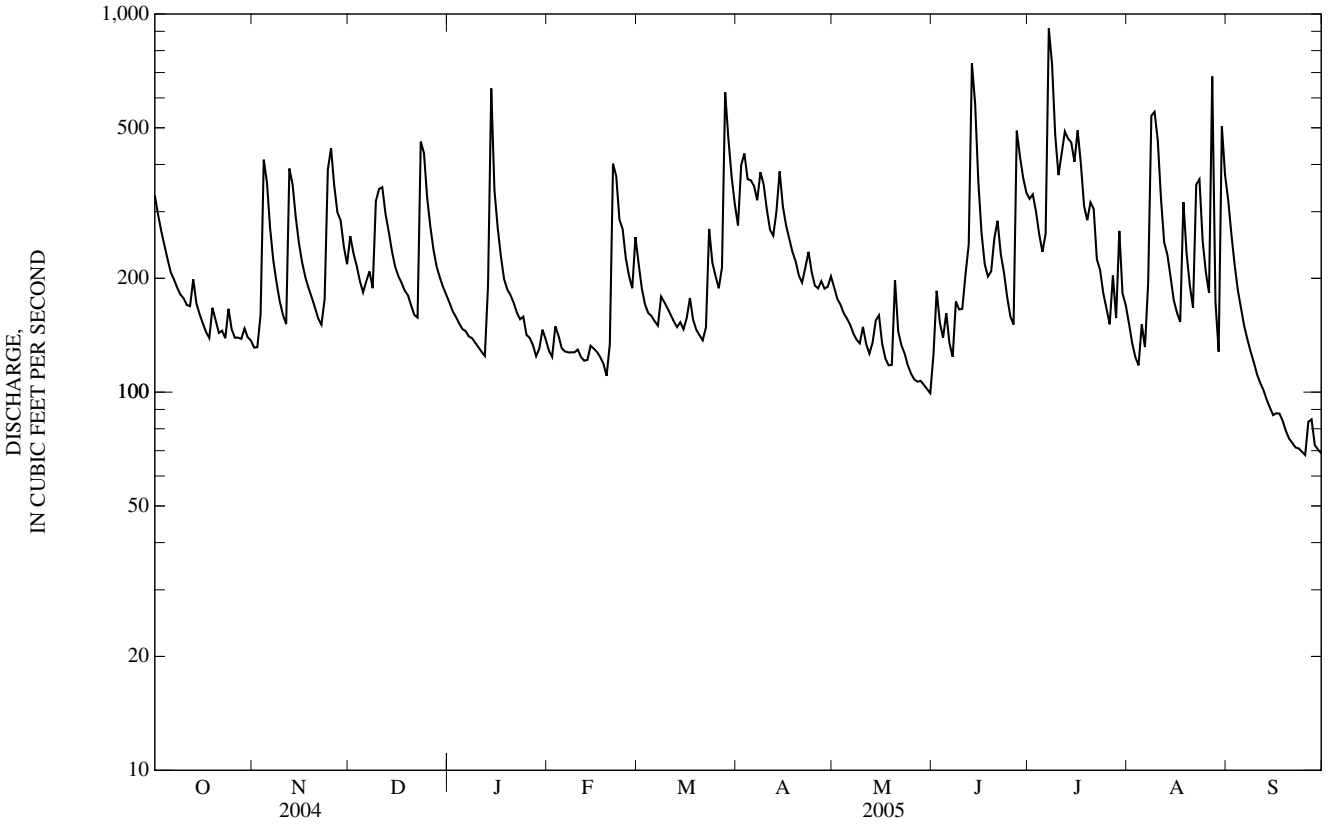
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1921 - 2005,@BY WATER YEAR (WY)

MEAN	97.4	118	139	190	224	272	248	186	137	104	102	98.6
MAX	569	604	385	610	598	740	560	480	387	503	828	1,162
(WY)	(1965)	(1980)	(1962)	(1995)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
MIN	13.7	27.0	35.3	32.3	65.7	45.7	55.6	45.5	17.7	18.2	13.3	13.8
(WY)	(1955)	(1982)	(1989)	(1956)	(1988)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

03451000 SWANNANOA RIVER AT BILTMORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1921 - 2005[@]	
ANNUAL TOTAL	85,116		79,287			
ANNUAL MEAN	233		217		159	
HIGHEST ANNUAL MEAN					277	1949
LOWEST ANNUAL MEAN					55.9	1988
HIGHEST DAILY MEAN	10,200	Sep 8	915	Jul 7	10,200	Sep 8, 2004
LOWEST DAILY MEAN	42	Aug 10	68	Sep 25	1.2	Oct 14, 1941
ANNUAL SEVEN-DAY MINIMUM	50	Aug 5	72	Sep 19	6.4	Sep 7, 2002
MAXIMUM PEAK FLOW			1,950	Aug 22	18,400*	Aug 13, 1940
MAXIMUM PEAK STAGE			6.25	Aug 22	19.22	Sep 8, 2004
INSTANTANEOUS LOW FLOW			66*	Sep 25	1.1*	Oct 9, 1941
ANNUAL RUNOFF (CFSM)	1.79		1.67		1.23	
ANNUAL RUNOFF (INCHES)	24.36		22.69		16.65	
10 PERCENT EXCEEDS	351		371		309	
50 PERCENT EXCEEDS	130		181		106	
90 PERCENT EXCEEDS	75		122		37	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC

LOCATION.--Lat 35°36'32", long 82°34'41", Buncombe County, Hydrologic Unit 06010105, on right bank 27 ft upstream from Pearson Bridge (Secondary Road 1348) at Asheville, 1.4 mi downstream of bridge on U.S. Highways 19 and 23, 3.2 mi downstream of Swannanoa River, and at mile 145.8.

DRAINAGE AREA.--945 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1895 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area. WSP 1306: 1895-1909, 1901(M), 1914-15(M), 1917(M), 1920-22(M).

GAGE.--Water-stage recorder. Datum of gage is 1,950.28 ft above NGVD of 1929. Sept. 17, 1895, to Dec. 31, 1901, nonrecording gage at present site at different datum. Mar. 19, 1903, to July 15, 1916, and Jan. 1, 1917, to Sept. 30, 1922, nonrecording gage at Smith Bridge 1.5 mi upstream at datum 1961.80 ft. Oct. 1, 1922, to Aug. 9, 1930, nonrecording gage at present site and datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Many small diversions from tributaries upstream from station for water supply. Diversions by City of Asheville and others from upstream tributaries in the Swannanoa River basin (station 03451000) totaled about 29.6 ft^3/s and 35.2 ft^3/s was discharged 4 mi downstream from station as treated effluent. Slight diurnal fluctuation and occasional slight regulation at low flow caused by power plant 46 mi upstream and small reservoirs upstream from station. Maximum discharge for period of record, from rating curve extended above 43,000 ft^3/s, by logarithmic plotting; maximum gage height, 23.10, from floodmarks. Minimum discharge for period of record also occurred Sept. 14, 2002. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791, that of July 16, 1916, and flood of June 17, 1876, reached a stage of 18 ft, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,020	1,810	3,130	2,530	2,090	2,890	3,350	2,270	1,500	3,640	3,110	3,990
2	4,730	1,770	3,400	2,440	1,950	2,380	3,550	2,040	3,060	3,580	2,790	2,910
3	4,030	2,120	2,930	2,370	2,200	2,130	3,830	1,900	4,090	3,280	2,510	2,530
4	3,690	4,100	2,710	2,310	2,520	2,030	3,300	1,830	3,040	3,100	2,350	2,270
5	3,420	5,540	2,540	2,270	2,260	1,990	3,010	1,790	2,570	3,500	2,330	2,120
6	3,190	3,960	2,470	2,230	2,090	1,960	2,820	1,790	2,270	3,000	2,330	1,980
7	3,040	2,880	2,870	2,180	1,990	1,900	2,710	1,750	2,570	7,390	2,670	1,870
8	2,890	2,560	3,060	2,150	1,940	2,100	3,090	1,720	2,450	9,870	4,450	1,800
9	2,790	2,330	3,510	2,190	1,920	2,210	3,390	1,690	2,940	8,020	4,030	1,750
10	2,720	2,170	5,750	2,080	1,910	2,020	2,940	1,770	2,470	4,920	3,470	1,670
11	2,650	2,090	5,170	2,020	1,830	1,910	2,700	1,850	2,760	4,650	3,130	1,590
12	2,550	3,140	3,860	1,970	1,780	1,850	2,600	1,780	3,210	7,960	2,740	1,540
13	2,690	4,600	3,310	2,030	1,760	1,790	3,140	1,670	7,750	7,970	2,610	1,510
14	2,580	3,480	2,980	5,590	1,810	1,900	3,660	1,690	7,860	7,650	2,710	1,460
15	2,420	2,850	2,760	4,960	1,920	1,890	3,250	1,750	7,240	7,420	2,380	1,420
16	2,320	2,610	2,630	3,370	1,830	1,840	2,880	1,850	6,500	6,140	2,260	1,410
17	2,190	2,460	2,530	2,870	1,750	2,100	2,660	1,710	3,870	4,840	2,430	1,540
18	2,130	2,330	2,460	2,600	1,690	2,030	2,530	1,580	3,050	4,770	3,550	1,490
19	2,190	2,230	2,390	2,450	1,630	1,860	2,430	1,550	3,000	4,250	4,100	1,350
20	2,280	2,140	2,270	2,370	1,680	1,800	2,320	2,450	3,260	4,670	2,990	1,290
21	2,170	2,090	2,180	2,310	2,540	1,750	2,230	2,500	3,420	4,860	2,870	1,270
22	2,060	2,020	2,160	2,230	3,120	1,740	2,330	2,100	2,930	4,220	2,920	1,250
23	2,040	2,180	4,570	2,130	2,550	2,800	2,650	1,830	2,630	3,900	3,340	1,230
24	2,140	3,110	6,580	1,970	2,360	3,000	2,460	1,690	2,360	3,440	3,180	1,210
25	2,080	4,900	6,270	2,010	2,320	2,450	2,210	1,580	2,180	3,100	2,590	1,180
26	1,970	4,000	4,430	1,980	2,120	2,200	2,110	1,510	2,100	2,860	2,290	1,230
27	1,920	3,170	3,360	1,930	1,990	2,190	2,140	1,470	6,540	2,890	2,650	1,310
28	1,890	3,140	3,030	1,860	2,370	6,530	2,060	1,460	9,000	3,010	2,110	1,240
29	1,960	2,950	2,850	1,840	---	7,340	2,010	1,450	6,270	3,510	1,980	1,190
30	2,030	2,660	2,730	2,140	---	5,850	2,050	1,430	4,340	3,530	4,140	1,190
31	1,920	---	2,640	2,400	---	3,720	---	1,420	---	3,320	5,460	---
TOTAL	83,700	87,390	103,530	75,780	57,920	80,150	82,410	54,870	117,230	149,260	92,470	49,790
MEAN	2,700	2,913	3,340	2,445	2,069	2,585	2,747	1,770	3,908	4,815	2,983	1,660
MAX	7,020	5,540	6,580	5,590	3,120	7,340	3,830	2,500	9,000	9,870	5,460	3,990
MIN	1,890	1,770	2,160	1,840	1,630	1,740	2,010	1,420	1,500	2,860	1,980	1,180
CFSM	2.86	3.08	3.53	2.59	2.19	2.74	2.91	1.87	4.14	5.10	3.16	1.76
IN.	3.29	3.44	4.08	2.98	2.28	3.16	3.24	2.16	4.61	5.88	3.64	1.96

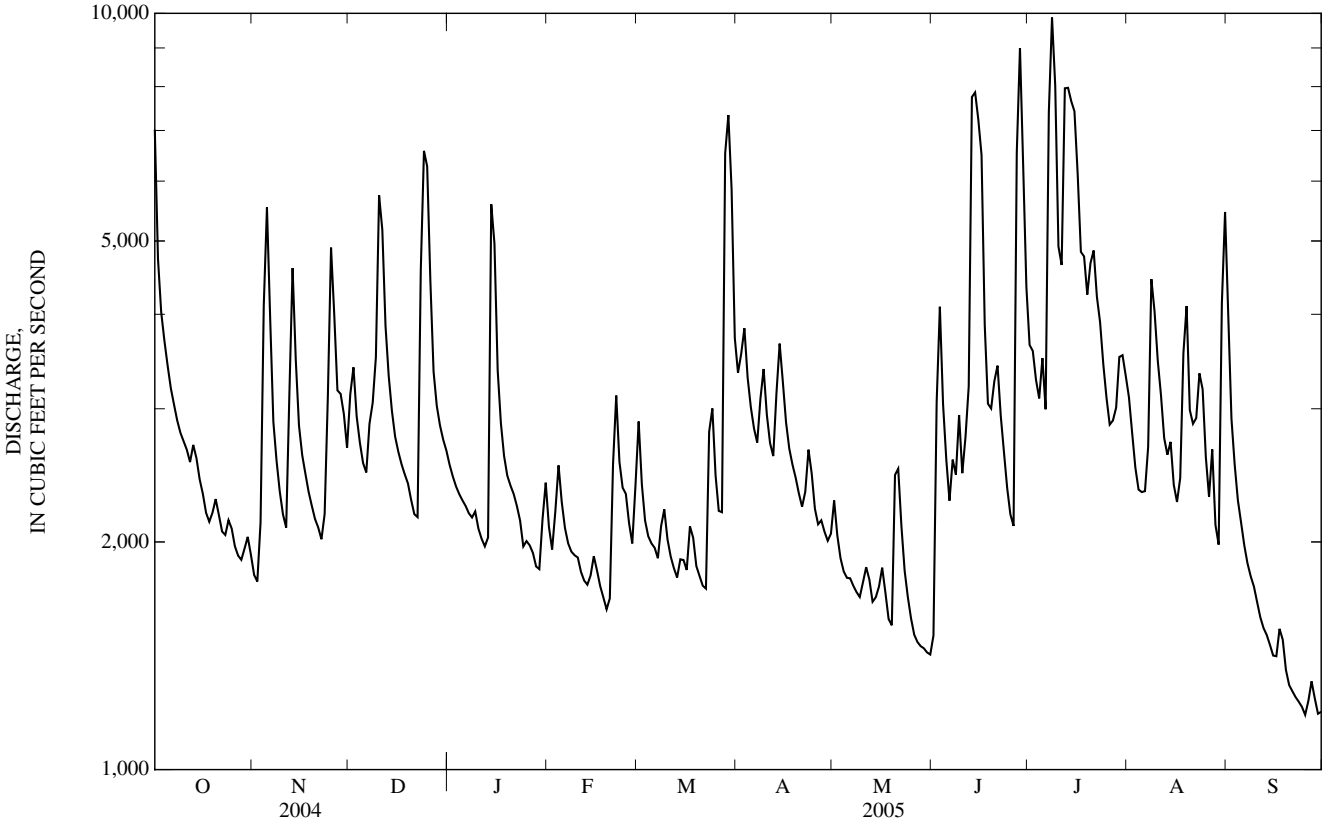
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2005, BY WATER YEAR (WY)

MEAN	1,580	1,639	2,103	2,412	2,658	2,992	2,741	2,186	1,893	1,723	1,688	1,536
MAX	7,025	5,121	5,700	6,068	6,364	7,928	5,705	4,961	5,774	11,500	8,362	10,210
(WY)	(1965)	(1980)	(1915)	(1937)	(1998)	(1899)	(1899)	(1973)	(1909)	(1916)	(1901)	(2004)
MIN	353	507	636	548	1,083	1,037	973	852	547	559	328	346
(WY)	(1955)	(1932)	(1956)	(1956)	(1931)	(1988)	(1986)	(2001)	(1988)	(1986)	(1925)	(1954)

03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1896 - 2005	
ANNUAL TOTAL	1,055,332		1,034,500			
ANNUAL MEAN	2,883		2,834		2,093	
HIGHEST ANNUAL MEAN					3,671	1901
LOWEST ANNUAL MEAN					1,004	1988
HIGHEST DAILY MEAN	34,700	Sep 8	9,870	Jul 8	66,000	Jul 16, 1916
LOWEST DAILY MEAN	894	Aug 23	1,180	Sep 25	215	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	986	Aug 17	1,220	Sep 24	246	Sep 7, 2002
MAXIMUM PEAK FLOW			12,200	Jul 7	110,000*	Jul 16, 1916
MAXIMUM PEAK STAGE			6.57	Jul 7	23.10*	Jul 16, 1916
INSTANTANEOUS LOW FLOW			1,160*	Sep 29	215*	Sep 13, 2002
ANNUAL RUNOFF (CFSM)	3.05		3.00		2.22	
ANNUAL RUNOFF (INCHES)	41.54		40.72		30.10	
10 PERCENT EXCEEDS	4,100		4,580		3,640	
50 PERCENT EXCEEDS	2,040		2,430		1,640	
90 PERCENT EXCEEDS	1,310		1,690		771	

* See REMARKS.



03451500 FRENCH BROAD RIVER AT ASHEVILLE, NC—Continued

PRECIPITATION RECORDS

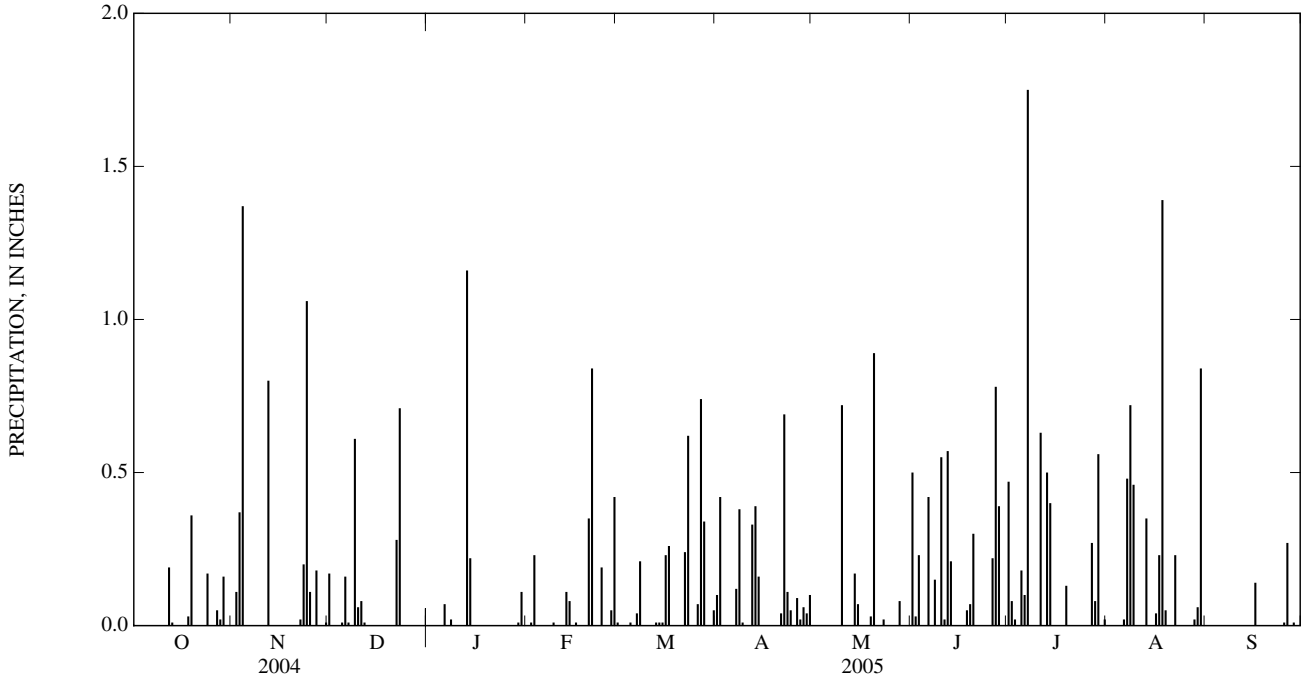
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.17	0.00	0.00	0.01	0.10	0.00	0.50	0.47	0.00	0.00
2	0.00	0.11	0.00	0.00	0.01	0.00	0.42	0.00	0.03	0.08	0.00	0.00
3	0.00	0.37	0.00	0.00	0.23	0.00	0.00	0.00	0.23	0.02	0.00	0.00
4	0.00	1.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.18	0.00	0.00
6	0.00	0.00	0.16	0.07	0.00	0.00	0.00	0.00	0.42	0.10	0.02	0.00
7	0.00	0.00	0.01	0.00	0.00	0.04	0.12	0.00	0.00	1.75	0.48	0.00
8	0.00	0.00	0.00	0.02	0.00	0.21	0.38	0.00	0.15	0.00	0.72	0.00
9	0.00	0.00	0.61	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.46	0.00
10	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.72	0.55	0.00	0.00	0.00
11	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.02	0.63	0.00	0.00
12	0.19	0.80	0.01	0.00	0.00	0.00	0.33	0.00	0.57	0.00	0.00	0.00
13	0.01	0.00	0.00	1.16	0.11	0.01	0.39	0.00	0.21	0.50	0.35	0.00
14	0.00	0.00	0.00	0.22	0.08	0.01	0.16	0.17	0.00	0.40	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.01	0.23	0.00	0.00	0.00	0.00	0.04	0.14
17	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.23	0.00
18	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	1.39	0.00
19	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.07	0.13	0.05	0.00
20	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.89	0.30	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.84	0.00	0.04	0.00	0.00	0.00	0.00	0.00
22	0.00	0.02	0.28	0.00	0.00	0.24	0.69	0.00	0.00	0.00	0.23	0.00
23	0.00	0.20	0.71	0.00	0.00	0.62	0.11	0.02	0.00	0.00	0.00	0.00
24	0.17	1.06	0.00	0.00	0.19	0.00	0.05	0.00	0.00	0.00	0.00	0.00
25	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
26	0.00	0.00	0.00	0.00	0.00	0.07	0.09	0.00	0.22	0.00	0.00	0.27
27	0.05	0.18	0.00	0.00	0.05	0.74	0.02	0.00	0.78	0.27	0.00	0.00
28	0.02	0.00	0.00	0.00	0.42	0.34	0.06	0.08	0.39	0.08	0.02	0.01
29	0.16	0.00	0.00	0.01	---	0.00	0.04	0.00	0.00	0.56	0.06	0.00
30	0.00	0.01	0.00	0.11	---	0.00	0.10	0.00	0.00	0.00	0.84	0.00
31	0.00	---	0.00	0.00	---	0.05	---	0.00	---	0.02	0.00	---
TOTAL	0.99	4.23	2.10	1.59	2.30	2.85	3.11	1.98	4.49	5.19	4.89	0.43



03451690 NEWFOUND CREEK NEAR ALEXANDER, NC

LOCATION.--Lat 35°39'59", long 82°38'04", Buncombe County, Hydrologic Unit 06010105, on left bank 21 ft downstream from bridge on Secondary Road 1641, 0.9 mi above mouth, and 2.6 mi southwest of Alexander.

DRAINAGE AREA.--34.2 mi^2.

PERIOD OF RECORD.--December 2000 to October 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 1,600 ft^3/s on basis of slope-area measurement of peak flow. Maximum gage height for period of record from high-water marks at gage. Minimum discharge for the current water also occurred several days in Sept.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	22	33	23	20	35	37	25	23	28	23	22
2	38	22	27	22	19	30	54	24	32	26	22	21
3	35	26	26	22	23	28	41	23	29	25	21	20
4	32	77	25	22	21	27	35	23	26	24	24	19
5	30	38	24	22	20	26	32	23	22	23	24	18
6	28	31	26	22	20	24	30	23	21	26	24	18
7	27	29	28	21	19	24	31	22	21	224	40	18
8	26	27	25	22	20	33	34	22	20	65	e50	17
9	26	26	77	21	20	26	30	22	20	41	35	17
10	25	25	49	21	20	25	27	32	21	34	31	16
11	25	24	41	20	19	24	26	25	21	35	25	17
12	25	55	34	20	19	24	29	22	31	34	23	16
13	27	37	31	34	20	23	48	22	50	31	47	16
14	24	31	28	81	22	23	99	22	28	31	34	16
15	24	29	27	32	20	22	52	24	24	28	24	16
16	23	28	26	29	20	24	42	22	21	26	29	e20
17	22	27	26	26	19	30	37	21	20	26	28	18
18	22	26	25	e25	18	25	34	21	46	41	e137	17
19	42	26	25	24	18	24	32	21	63	156	e65	16
20	27	25	25	24	20	23	30	39	128	106	44	16
21	24	25	e25	23	92	23	29	25	56	56	35	16
22	23	24	24	23	46	24	32	23	38	43	30	16
23	23	28	40	e22	34	69	35	22	31	34	29	16
24	24	157	28	e22	35	33	30	21	27	29	26	15
25	22	66	26	21	30	29	27	21	25	27	24	15
26	22	43	25	22	27	27	27	20	24	25	22	18
27	22	36	24	20	26	33	27	20	27	24	22	17
28	22	34	23	19	43	181	25	21	98	25	22	16
29	27	29	23	21	---	63	26	20	49	31	22	16
30	24	28	23	22	---	47	27	20	32	25	49	16
31	22	---	23	21	---	40	---	19	---	24	26	---
TOTAL	826	1,101	912	769	730	1,089	1,065	710	1,074	1,373	1,057	515
MEAN	26.6	36.7	29.4	24.8	26.1	35.1	35.5	22.9	35.8	44.3	34.1	17.2
MAX	43	157	77	81	92	181	99	39	128	224	137	22
MIN	22	22	23	19	18	22	25	19	20	23	21	15
CFSM	0.78	1.07	0.86	0.73	0.76	1.03	1.04	0.67	1.05	1.30	1.00	0.50
IN.	0.90	1.20	0.99	0.84	0.79	1.18	1.16	0.77	1.17	1.49	1.15	0.56

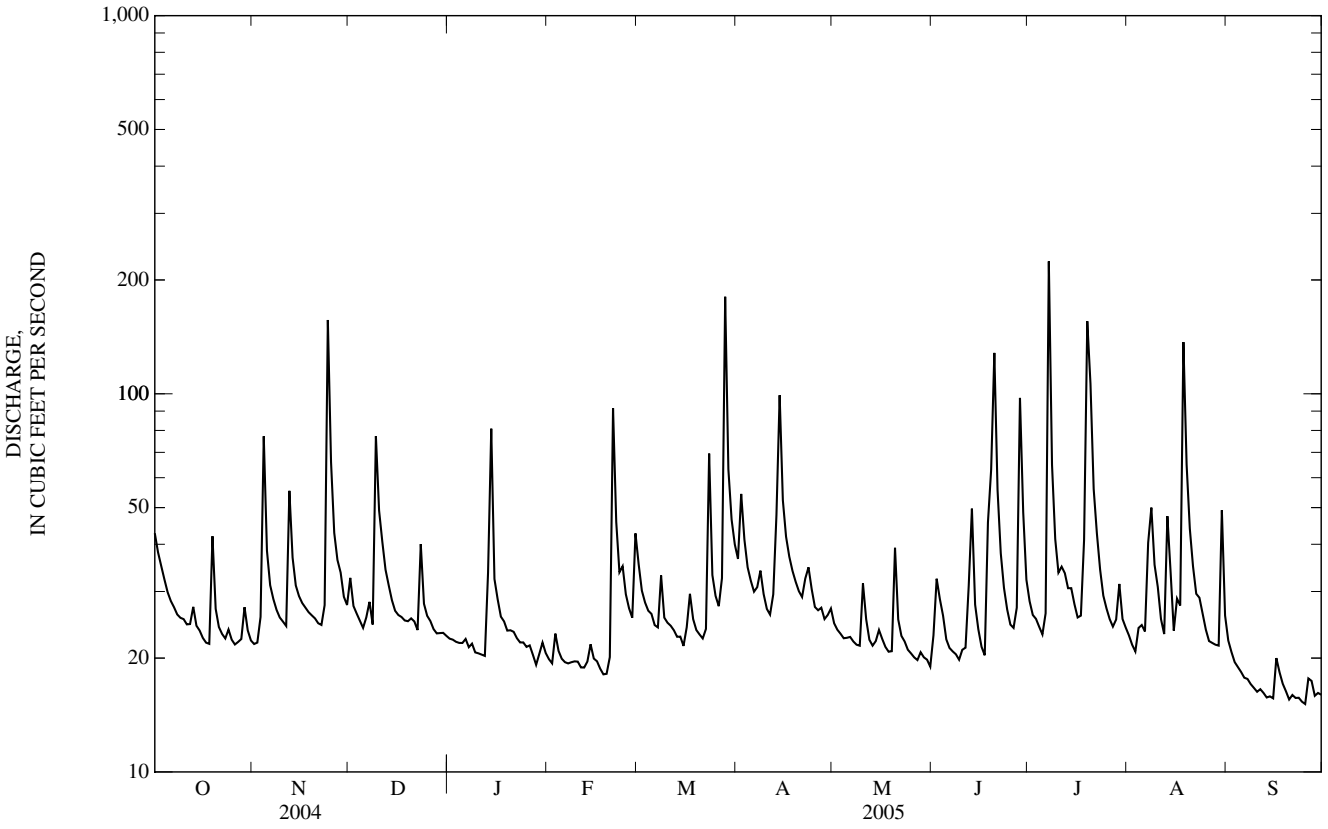
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	13.3	20.1	18.9	17.4	22.8	24.9	26.1	25.7	19.6	20.1	18.0	40.8
MAX	26.6	36.7	29.4	24.8	32.4	35.1	40.7	66.6	35.8	44.3	34.1	157
(WY)	(2005)	(2005)	(2005)	(2005)	(2004)	(2005)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	6.49	6.39	8.60	14.8	9.30	15.7	12.0	8.46	7.87	6.89	3.38	6.44
(WY)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(2001)	(2001)	(2001)	(2002)	(2002)

03451690 NEWFOUND CREEK NEAR ALEXANDER, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	12,826		11,221			
ANNUAL MEAN	35.0		30.7		24.7	
HIGHEST ANNUAL MEAN					32.1	2004
LOWEST ANNUAL MEAN					9.50	2002
HIGHEST DAILY MEAN	2,690	Sep 17	224	Jul 7	2,690	Sep 17, 2004
LOWEST DAILY MEAN	11	Aug 28	15	Sep 24	1.8	Aug 14, 2002
ANNUAL SEVEN-DAY MINIMUM	12	Aug 26	16	Sep 19	2.1	Aug 8, 2002
MAXIMUM PEAK FLOW			658	Jul 19	17,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.51	Jul 19	20.60*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			14*	Sep 10	1.2	Aug 23, 2002
ANNUAL RUNOFF (CFSM)	1.02		0.899		0.722	
ANNUAL RUNOFF (INCHES)	13.95		12.21		9.81	
10 PERCENT EXCEEDS	42		43		35	
50 PERCENT EXCEEDS	21		25		18	
90 PERCENT EXCEEDS	14		20		6.4	

* See REMARKS.
e Estimated.



03451690 NEWFOUND CREEK NEAR ALEXANDER, NC—Continued

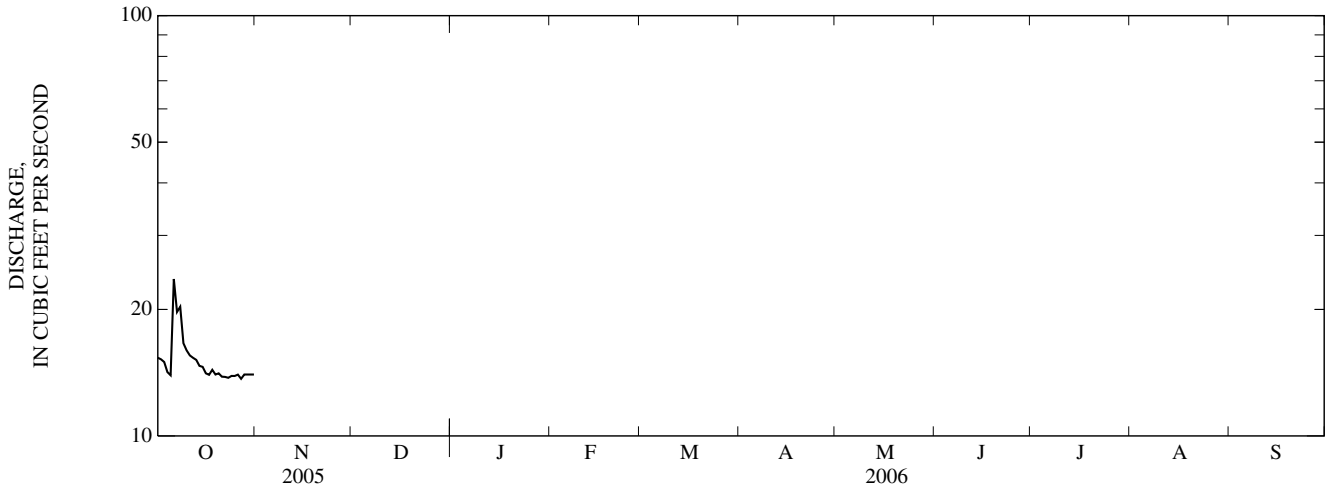
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	---	---	---	---	---	---	---	---	---	---	---
2	15	---	---	---	---	---	---	---	---	---	---	---
3	15	---	---	---	---	---	---	---	---	---	---	---
4	14	---	---	---	---	---	---	---	---	---	---	---
5	14	---	---	---	---	---	---	---	---	---	---	---
6	24	---	---	---	---	---	---	---	---	---	---	---
7	20	---	---	---	---	---	---	---	---	---	---	---
8	20	---	---	---	---	---	---	---	---	---	---	---
9	17	---	---	---	---	---	---	---	---	---	---	---
10	16	---	---	---	---	---	---	---	---	---	---	---
11	16	---	---	---	---	---	---	---	---	---	---	---
12	15	---	---	---	---	---	---	---	---	---	---	---
13	15	---	---	---	---	---	---	---	---	---	---	---
14	15	---	---	---	---	---	---	---	---	---	---	---
15	15	---	---	---	---	---	---	---	---	---	---	---
16	14	---	---	---	---	---	---	---	---	---	---	---
17	14	---	---	---	---	---	---	---	---	---	---	---
18	14	---	---	---	---	---	---	---	---	---	---	---
19	e14	---	---	---	---	---	---	---	---	---	---	---
20	14	---	---	---	---	---	---	---	---	---	---	---
21	14	---	---	---	---	---	---	---	---	---	---	---
22	14	---	---	---	---	---	---	---	---	---	---	---
23	14	---	---	---	---	---	---	---	---	---	---	---
24	14	---	---	---	---	---	---	---	---	---	---	---
25	14	---	---	---	---	---	---	---	---	---	---	---
26	14	---	---	---	---	---	---	---	---	---	---	---
27	14	---	---	---	---	---	---	---	---	---	---	---
28	e14	---	---	---	---	---	---	---	---	---	---	---
29	e14	---	---	---	---	---	---	---	---	---	---	---
30	e14	---	---	---	---	---	---	---	---	---	---	---
31	e14	---	---	---	---	---	---	---	---	---	---	---
TOTAL	470	---	---	---	---	---	---	---	---	---	---	---
MEAN	15.2	---	---	---	---	---	---	---	---	---	---	---
MAX	24	---	---	---	---	---	---	---	---	---	---	---
MIN	14	---	---	---	---	---	---	---	---	---	---	---
CFSM	0.44	---	---	---	---	---	---	---	---	---	---	---
IN.	0.51	---	---	---	---	---	---	---	---	---	---	---

SUMMARY STATISTICS FOR 2006 WATER YEAR

MAXIMUM PEAK FLOW	43	Oct 6
MAXIMUM PEAK STAGE	2.72	Oct 6
INSTANTANEOUS LOW FLOW	13	Oct 15

e Estimated.



03453000 IVY RIVER NEAR MARSHALL, NC

LOCATION.--Lat 35°46'11", long 82°37'15", Madison County, Hydrologic Unit 06010105, on right bank 0.2 mi downstream from bridge on U.S. Highway 25-70, 1.9 mi upstream from mouth, and 4.0 mi southeast of Marshall.

DRAINAGE AREA.--158 mi^2.

PERIOD OF RECORD.--October 1933 to September 1973. July 1, 1994 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,700.41 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REVISED RECORDS.--WSP 803: 1934(M), 1935. WSP 1910: 1936(P), 1937(M), 1940(M), 1946(M), 1957(P). WDR NC-04-1: 1994-2003(M).

REMARKS.--Records good except those for estimated daily discharges, which are poor. Considerable low flow regulation, at times, caused by small power plant at Ivy Dam, 0.4 mi upstream. Minimum discharge for period of record and current water year affected by regulation.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June, 1876, reached a stage of 16.0 ft, from studies by Tennessee Valley Authority (discharge 14,000 ft^3/s). An outstanding but lesser flood occurred in July, 1916 (stage and discharge unknown).

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	138	74	216	141	117	257	278	232	112	152	230	137
2	121	71	185	134	111	222	631	213	132	143	169	115
3	112	75	170	129	134	207	887	200	116	149	183	97
4	103	225	157	125	134	193	652	184	116	131	159	87
5	92	206	145	122	126	187	523	173	102	116	115	82
6	86	146	156	124	122	173	421	166	115	111	123	73
7	82	122	190	121	120	165	356	157	112	292	135	72
8	76	108	164	118	120	274	345	150	246	325	185	65
9	75	96	349	111	122	238	313	141	163	205	194	65
10	72	89	418	107	125	225	267	166	177	163	169	61
11	69	84	441	105	116	214	242	173	151	163	126	58
12	68	263	386	102	111	201	226	143	138	185	107	56
13	96	267	318	122	116	185	288	134	283	176	92	54
14	79	196	263	1,200	156	184	518	134	209	210	101	52
15	74	163	223	499	148	166	409	186	156	220	87	53
16	68	142	197	357	142	173	343	168	133	184	85	56
17	64	128	180	277	138	197	296	145	119	216	80	76
18	63	115	166	219	127	183	262	136	113	181	146	60
19	93	108	160	199	121	175	236	129	144	197	168	47
20	100	101	e147	185	130	169	216	252	178	310	105	49
21	78	94	e143	173	781	162	203	197	197	226	89	46
22	74	89	141	159	660	160	333	169	145	169	78	47
23	69	103	379	e149	429	443	384	163	128	151	154	43
24	74	585	334	e144	356	384	327	149	115	127	132	44
25	72	520	262	139	299	326	289	139	112	114	109	43
26	67	e455	226	133	251	280	268	130	97	103	91	48
27	69	e385	197	123	222	249	262	123	167	96	83	60
28	78	e320	176	112	246	412	236	118	150	115	82	49
29	84	e250	166	114	---	405	251	115	186	127	75	46
30	93	178	158	126	---	356	251	110	197	128	184	47
31	79	---	149	121	---	313	---	104	---	167	208	---
TOTAL	2,568	5,758	6,962	5,990	5,780	7,478	10,513	4,899	4,509	5,352	4,044	1,888
MEAN	82.8	192	225	193	206	241	350	158	150	173	130	62.9
MAX	138	585	441	1,200	781	443	887	252	283	325	230	137
MIN	63	71	141	102	111	160	203	104	97	96	75	43

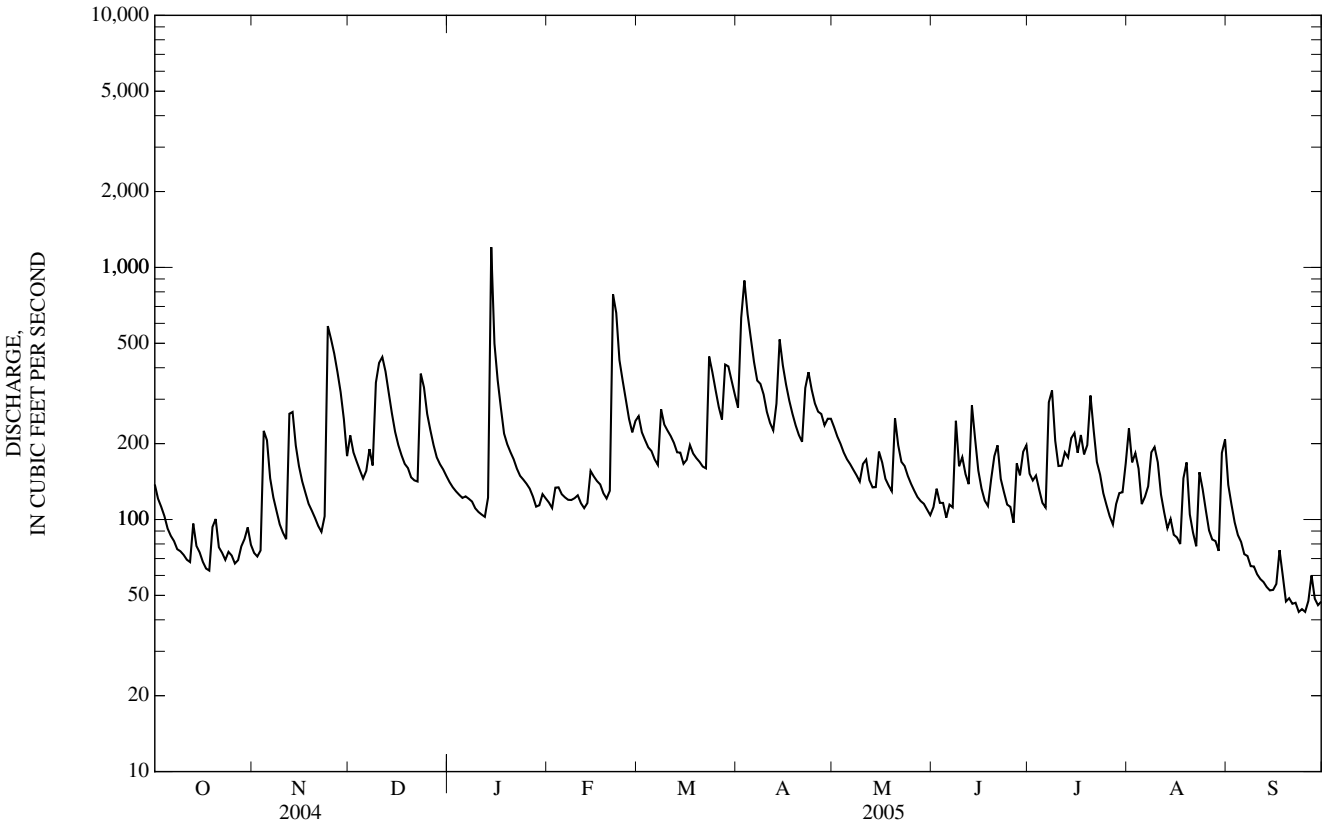
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005, @BY WATER YEAR (WY)

MEAN	75.3	94.9	134	209	260	304	244	159	112	99.5	87.3	68.7
MAX	367	229	407	636	563	848	574	404	272	280	444	486
(WY)	(1965)	(1950)	(1962)	(1937)	(1957)	(1963)	(1936)	(2003)	(1950)	(1949)	(1940)	(2004)
MIN	19.3	28.9	39.8	46.4	60.9	129	76.1	58.6	43.3	29.8	22.8	20.5
(WY)	(1953)	(1940)	(1940)	(1940)	(1941)	(1970)	(1942)	(1941)	(1953)	(1952)	(1956)	(1998)

03453000 IVY RIVER NEAR MARSHALL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005[@]	
ANNUAL TOTAL	64,920		65,741			
ANNUAL MEAN	177		180		153	
HIGHEST ANNUAL MEAN					232	1936
LOWEST ANNUAL MEAN					92.1	1941
HIGHEST DAILY MEAN	4,430	Sep 17	1,200	Jan 14	8,010	Mar 12, 1963
LOWEST DAILY MEAN	42	Jul 22	43	Sep 23	8.5	Sep 2, 1953
ANNUAL SEVEN-DAY MINIMUM	46	Aug 17	46	Sep 19	9.8	Aug 28, 1953
MAXIMUM PEAK FLOW			2,470	Jan 14	14,400	Mar 26, 1965
MAXIMUM PEAK STAGE			7.84	Jan 14	17.21	Jan 14, 1995
INSTANTANEOUS LOW FLOW			1.8*	Oct 9	1.8*	Oct 9, 2004
10 PERCENT EXCEEDS	280		325		300	
50 PERCENT EXCEEDS	123		147		97	
90 PERCENT EXCEEDS	64		74		35	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03453500 FRENCH BROAD RIVER AT MARSHALL, NC

LOCATION.--Lat 35°47'11", long 82°39'39", Madison County, Hydrologic Unit 06010105, on right bank 0.7 mi upstream from Hayes Creek, 1.0 mi downstream of Ivy River, 1.5 mi southeast of Marshall, and at mile 126.7.

DRAINAGE AREA.--1,332 mi^2.

PERIOD OF RECORD.--October 1942 to current year.

REVISED RECORDS.--WSP 1436: 1954(M).

GAGE.--Water-stage recorder. Datum of gage is 1,646.79 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Small diversions from tributaries for water supply. Slight diurnal fluctuation and occasional slight regulation at low flow caused by small reservoirs upstream from station. Prior to July 1963, some regulation by Weaver plant of Carolina Power and Light Company 15 mi upstream, after November 1986 the same power plant was operated by the Metropolitan Sewage Treatment Plant. Minimum discharge for period of record also occurred Sept. 14, 1954.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage observed since at least 1791: 22.0 ft, July 16, 1916; discharge: 115,000 ft^3/s. Flood of Aug. 30, 1940, reached a stage of 16.6 ft; discharge, 70,000 ft^3/s, from high water marks, flood profiles, and studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,570	2,110	3,610	2,910	2,450	3,550	4,100	2,730	1,710	4,160	3,620	4,750
2	5,420	2,050	4,000	2,810	2,280	3,130	4,870	2,540	2,810	3,930	3,210	3,390
3	4,600	2,300	3,450	2,720	2,430	2,730	5,590	2,350	4,480	3,590	2,890	2,890
4	4,210	4,530	3,140	2,660	2,860	2,570	4,730	2,240	3,450	3,340	2,700	2,580
5	3,880	6,160	2,930	2,620	2,630	2,490	4,170	2,170	2,750	3,770	2,600	2,410
6	3,600	4,740	2,860	2,580	2,430	2,430	3,770	2,160	2,530	3,290	2,660	2,240
7	3,410	3,330	3,280	2,540	2,330	2,360	3,480	2,100	2,670	7,280	2,890	2,130
8	3,240	2,940	3,530	2,480	2,280	2,660	3,750	2,050	2,750	10,100	4,800	2,040
9	3,110	2,660	4,230	2,530	2,250	2,800	4,200	2,000	3,160	8,330	4,960	1,970
10	3,020	2,480	6,700	2,440	2,250	2,590	3,650	2,250	2,780	5,650	4,060	1,900
11	2,930	2,370	6,300	2,330	2,170	2,450	3,290	2,380	2,870	4,930	3,610	1,830
12	2,810	3,540	4,940	2,290	2,100	2,360	3,100	2,170	3,170	7,680	3,160	1,770
13	3,020	5,400	4,160	2,320	2,090	2,270	3,850	2,000	7,310	7,980	2,860	1,720
14	2,910	4,250	3,670	7,270	2,180	2,280	5,440	1,990	7,910	7,940	3,470	1,680
15	2,700	3,380	3,320	6,270	2,270	2,390	4,540	2,220	7,190	7,720	2,710	1,640
16	2,580	3,040	3,110	4,410	2,210	2,270	3,840	2,220	6,670	6,550	2,530	1,650
17	2,450	2,830	2,980	3,620	2,110	2,550	3,430	2,040	4,460	5,510	2,750	1,750
18	2,380	2,680	2,870	3,170	2,030	2,550	3,200	1,910	3,270	5,550	4,120	1,750
19	2,560	2,560	2,790	2,940	1,970	2,360	3,030	1,840	3,280	5,170	5,070	1,600
20	2,620	2,470	2,650	2,830	1,980	2,260	2,860	2,770	3,690	5,680	3,540	1,520
21	2,480	2,400	2,550	2,760	3,810	2,190	2,740	2,980	3,830	5,690	3,240	1,500
22	2,350	2,320	2,520	2,660	4,920	2,130	2,970	2,520	3,230	4,850	2,860	1,480
23	2,290	2,460	4,730	2,540	3,800	3,670	3,470	2,190	2,850	4,420	4,130	1,450
24	2,420	4,320	7,110	2,360	3,210	4,020	3,190	2,030	2,540	3,880	3,670	1,440
25	2,370	6,210	6,820	2,390	3,080	3,260	2,840	1,900	2,350	3,450	3,010	1,400
26	2,250	5,090	5,340	2,340	2,790	2,860	2,680	1,790	2,220	3,160	2,640	1,460
27	2,200	3,950	4,050	2,300	2,560	2,720	2,690	1,750	5,300	2,960	2,830	1,560
28	2,190	3,790	3,580	2,210	2,770	6,800	2,580	1,720	8,800	3,560	2,550	1,510
29	2,340	3,520	3,330	2,180	---	8,090	2,540	1,700	7,050	3,820	2,240	1,430
30	2,370	3,150	3,180	2,370	---	7,000	2,540	1,660	4,850	3,980	4,140	1,430
31	2,200	---	3,040	2,750	---	4,750	---	1,640	---	3,720	6,220	---
TOTAL	94,480	103,030	120,770	90,600	72,240	98,540	107,130	66,010	121,930	161,640	105,740	57,870
MEAN	3,048	3,434	3,896	2,923	2,580	3,179	3,571	2,129	4,064	5,214	3,411	1,929
MAX	7,570	6,210	7,110	7,270	4,920	8,090	5,590	2,980	8,800	10,100	6,220	4,750
MIN	2,190	2,050	2,520	2,180	1,970	2,130	2,540	1,640	1,710	2,960	2,240	1,400
CFSM	2.29	2.58	2.92	2.19	1.94	2.39	2.68	1.60	3.05	3.91	2.56	1.45
IN.	2.64	2.88	3.37	2.53	2.02	2.75	2.99	1.84	3.41	4.51	2.95	1.62

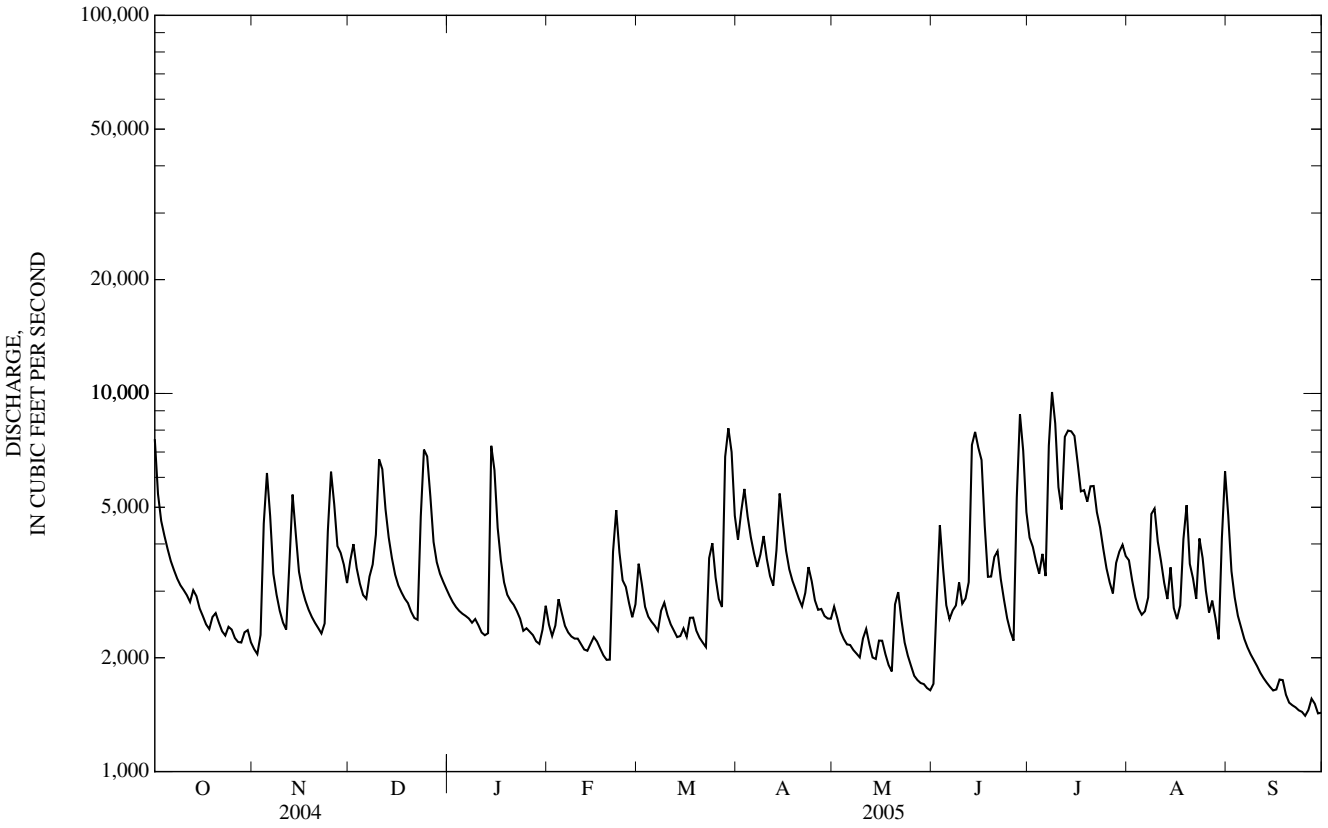
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2005, BY WATER YEAR (WY)

MEAN	1,762	2,032	2,435	2,873	3,301	3,695	3,381	2,664	2,201	1,818	1,780	1,681
MAX	8,172	5,640	5,465	6,279	7,373	7,170	6,149	5,585	4,191	5,214	4,905	10,430
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1975)	(1983)	(2003)	(1989)	(2005)	(1994)	(2004)
MIN	450	651	778	715	1,547	1,235	1,191	1,066	700	708	577	384
(WY)	(1955)	(1955)	(1956)	(1956)	(2002)	(1988)	(1986)	(1988)	(1988)	(1986)	(2002)	(1954)

03453500 FRENCH BROAD RIVER AT MARSHALL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1943 - 2005	
ANNUAL TOTAL	1,166,330		1,199,980			
ANNUAL MEAN	3,187		3,288		2,464	
HIGHEST ANNUAL MEAN					3,573	1949
LOWEST ANNUAL MEAN					1,229	1988
HIGHEST DAILY MEAN	32,400	Sep 8	10,100	Jul 8	32,400	Sep 8, 2004
LOWEST DAILY MEAN	1,200	Aug 23	1,400	Sep 25	292	Sep 27, 1954
ANNUAL SEVEN-DAY MINIMUM	1,310	Aug 17	1,460	Sep 24	313	Sep 24, 1954
MAXIMUM PEAK FLOW			12,900	Jul 7	54,000	Nov 6, 1977
MAXIMUM PEAK STAGE			5.92	Jul 7	13.64	Nov 6, 1977
INSTANTANEOUS LOW FLOW			1,210	Sep 18	193*	Sep 13, 1954
ANNUAL RUNOFF (CFSM)	2.39		2.47		1.85	
ANNUAL RUNOFF (INCHES)	32.57		33.51		25.13	
10 PERCENT EXCEEDS	4,740		5,360		4,390	
50 PERCENT EXCEEDS	2,280		2,830		1,970	
90 PERCENT EXCEEDS	1,570		2,000		898	

* See REMARKS.



03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC

LOCATION.--Lat 35°23'46", long 82°56'15", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on Secondary Road 1216, 600 ft upstream from Big Creek, 1.1 mi upstream from Lake Logan, 6.7 mi southeast of Hazelwood, and at mile 9.3.

DRAINAGE AREA.--27.6 mi^2.

PERIOD OF RECORD.--February 1954 to current year.

REVISED RECORDS.--WDR NC-04-1: 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,976.00 ft above NGVD of 1929. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from high-water mark. Maximum discharge for period of record from rating curve extended above 7,500 ft^3/s on basis of slope area measurement of peak flow. Minimum discharge for period of record also occurred Sept. 30, 1954. Minimum discharge for current water year also occurred Sept. 25, 26, 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	62	241	104	70	89	128	99	101	232	110	165
2	215	68	158	100	71	89	251	89	217	174	94	134
3	192	105	143	96	146	83	156	85	138	144	86	115
4	174	433	132	93	89	81	148	81	107	140	83	103
5	159	163	123	89	82	90	136	79	99	120	80	94
6	146	125	196	89	80	82	124	78	109	108	75	87
7	135	109	248	85	78	96	150	73	96	552	95	81
8	125	99	182	97	81	287	236	71	166	235	117	76
9	120	92	309	84	86	132	160	69	123	176	97	72
10	112	88	237	80	85	117	139	109	111	154	85	67
11	106	88	192	78	71	109	128	93	138	418	76	64
12	106	327	170	76	70	102	131	91	1,080	468	70	62
13	118	166	155	270	77	102	164	91	806	239	80	59
14	96	135	140	341	101	119	157	83	315	201	86	56
15	91	121	131	148	87	99	133	96	229	182	68	54
16	85	112	126	129	83	121	122	85	187	163	65	65
17	81	105	119	e115	77	111	114	78	161	147	66	56
18	79	99	112	e111	71	99	109	73	145	131	66	51
19	97	94	107	102	70	95	103	71	145	133	65	48
20	81	92	e104	98	77	92	98	185	157	147	61	47
21	75	87	100	96	225	87	94	113	131	122	57	45
22	72	85	101	93	145	104	119	96	116	202	73	45
23	70	119	601	e90	113	190	121	88	107	145	68	43
24	69	440	193	e86	135	120	98	81	99	117	58	42
25	66	246	160	82	113	108	93	78	92	106	54	40
26	64	172	144	81	102	101	93	74	97	98	53	65
27	62	164	131	76	96	121	96	71	114	91	53	52
28	71	177	125	72	103	479	88	70	149	106	53	43
29	101	144	118	78	---	165	86	67	139	213	58	46
30	71	134	113	78	---	140	120	65	157	122	1,050	42
31	66	---	109	72	---	135	---	62	---	115	259	---
TOTAL	3,348	4,451	5,220	3,289	2,684	3,945	3,895	2,644	5,831	5,701	3,461	2,019
MEAN	108	148	168	106	95.9	127	130	85.3	194	184	112	67.3
MAX	243	440	601	341	225	479	251	185	1,080	552	1,050	165
MIN	62	62	100	72	70	81	86	62	92	91	53	40
CFSM	3.91	5.38	6.10	3.84	3.47	4.61	4.70	3.09	7.04	6.66	4.05	2.44
IN.	4.51	6.00	7.04	4.43	3.62	5.32	5.25	3.56	7.86	7.68	4.66	2.72

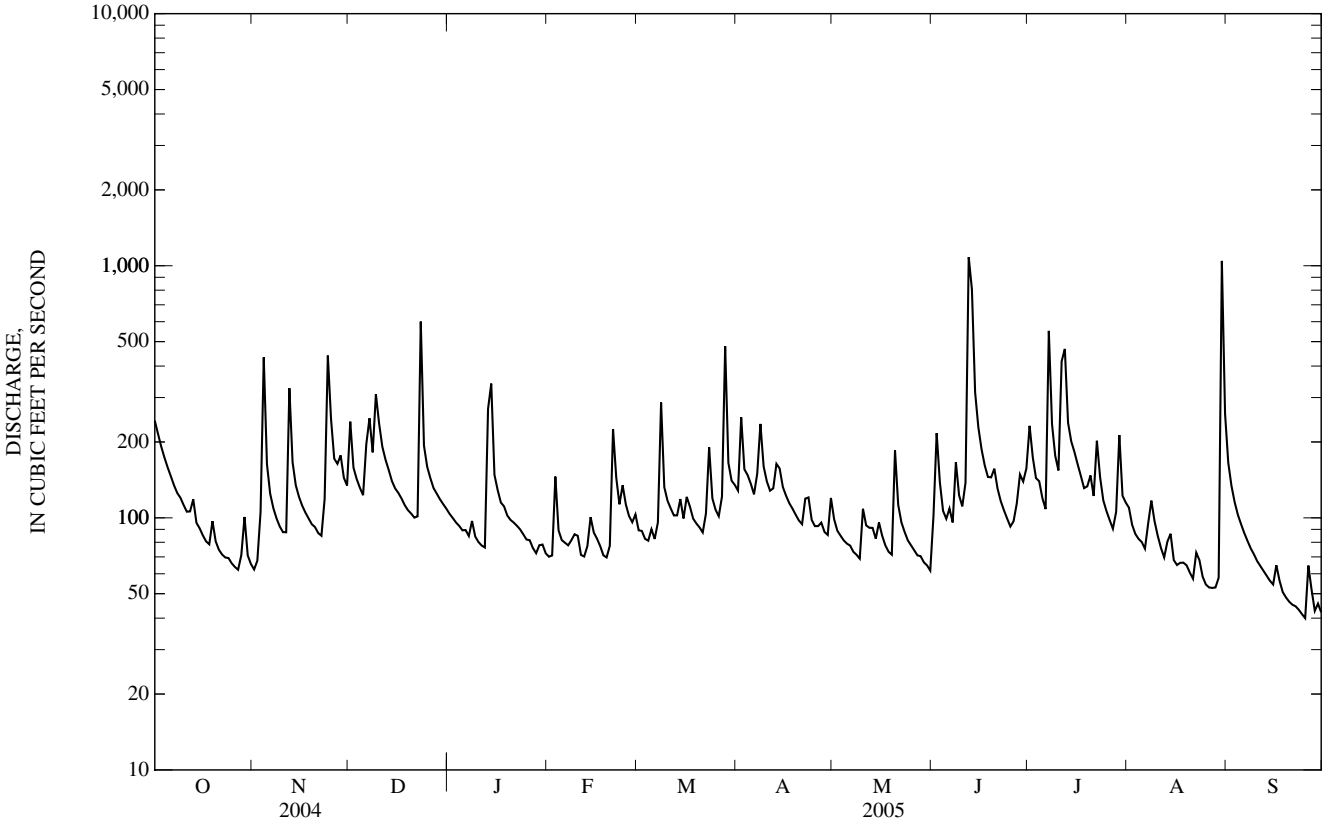
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	71.8	90.9	110	125	151	162	140	108	83.6	61.1	58.5	66.9
MAX	229	301	234	272	355	312	291	289	213	207	187	575
(WY)	(1965)	(1980)	(1962)	(1998)	(1966)	(1975)	(1983)	(1976)	(1967)	(1967)	(1994)	(2004)
MIN	13.5	26.8	29.7	34.0	68.7	53.8	47.8	49.2	30.8	23.3	16.4	13.0
(WY)	(1955)	(1979)	(1966)	(1981)	(1968)	(1988)	(1986)	(2001)	(1988)	(1993)	(1998)	(1954)

03455500 WEST FORK PIGEON RIVER ABOVE LAKE LOGAN NEAR HAZELWOOD, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	49,722		46,488			
ANNUAL MEAN	136		127		103	
HIGHEST ANNUAL MEAN					143	1979
LOWEST ANNUAL MEAN					59.6	1986
HIGHEST DAILY MEAN	2,910	Sep 8	1,080	Jun 12	4,500	Feb 13, 1966
LOWEST DAILY MEAN	36	Aug 27	40	Sep 25	10	Sep 28, 1954
ANNUAL SEVEN-DAY MINIMUM	40	Aug 17	44	Sep 19	11	Sep 11, 1998
MAXIMUM PEAK FLOW			3,690	Aug 30	12,700*	Sep 17, 2004
MAXIMUM PEAK STAGE			6.39	Aug 30	10.83*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			40*	Sep 24	9.4*	Sep 29, 1954
ANNUAL RUNOFF (CFSM)	4.92		4.61		3.72	
ANNUAL RUNOFF (INCHES)	67.02		62.66		50.49	
10 PERCENT EXCEEDS	230		192		186	
50 PERCENT EXCEEDS	78		101		71	
90 PERCENT EXCEEDS	46		66		27	

* See REMARKS.
e Estimated.



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC

LOCATION.--Lat 35°25'21", long 82°55'20", Haywood County, Hydrologic Unit 06010106, at Lake Logan Dam on West Fork Pigeon River near Hazelwood, and at river mi 7.0.

DRAINAGE AREA.--33.3 mi^2.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1997 to current year. Records for October 1986 to January 1991 and November 1995 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is 2,856.23 ft above NGVD of 1929. Satellite and telephone telemetry at station.

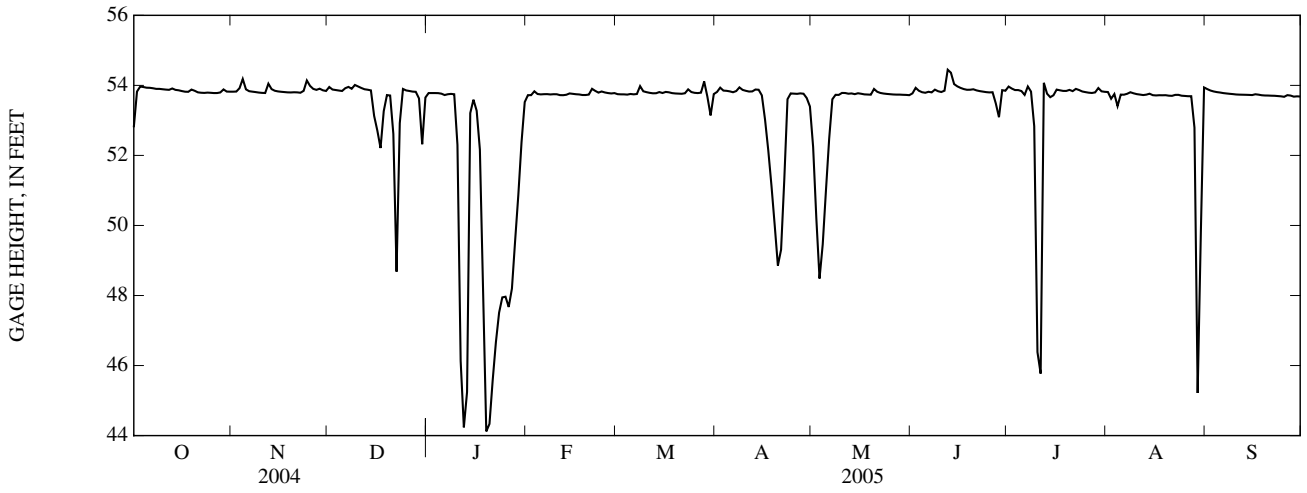
REMARKS.--Records good. Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330).

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 58.60 ft, Sept. 17, 2004; minimum gage height, 42.95 ft, Jan. 19, 2005.

EXTREMES FOR CURRENT YEAR.--Maximum gage height, 55.59 ft, Aug. 30; minimum gage height, 42.95 ft, Jan. 19.

GAGE HEIGHT, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52.80	53.82	53.95	53.78	53.72	53.75	53.81	52.24	53.77	53.97	53.81	53.89
2	53.82	53.82	53.88	53.78	53.72	53.74	53.94	50.20	53.93	53.91	53.62	53.85
3	53.97	53.92	53.87	53.78	53.83	53.74	53.85	48.48	53.85	53.87	53.75	53.83
4	53.95	54.18	53.85	53.78	53.75	53.74	53.84	49.46	53.80	53.87	53.41	53.81
5	53.93	53.89	53.84	53.76	53.74	53.75	53.83	51.00	53.79	53.84	53.74	53.80
6	53.93	53.83	53.92	53.72	53.75	53.74	53.80	52.47	53.82	53.73	53.73	53.78
7	53.92	53.82	53.96	53.75	53.75	53.75	53.84	53.60	53.80	53.97	53.76	53.77
8	53.90	53.81	53.90	53.76	53.74	53.98	53.94	53.73	53.88	53.82	53.80	53.76
9	53.90	53.79	54.01	53.75	53.75	53.83	53.87	53.73	53.83	52.83	53.77	53.75
10	53.89	53.79	53.97	52.30	53.75	53.81	53.84	53.78	53.81	46.38	53.75	53.74
11	53.88	53.78	53.93	46.13	53.72	53.79	53.82	53.78	53.85	45.77	53.74	53.74
12	53.87	54.05	53.89	44.24	53.72	53.77	53.83	53.76	54.45	54.07	53.72	53.73
13	53.91	53.89	53.88	45.24	53.73	53.78	53.88	53.77	54.36	53.76	53.74	53.73
14	53.87	53.85	53.86	53.21	53.77	53.81	53.87	53.75	54.04	53.66	53.76	53.73
15	53.86	53.83	53.13	53.59	53.76	53.78	53.71	53.77	53.97	53.72	53.72	53.72
16	53.84	53.82	52.71	53.27	53.75	53.81	53.02	53.76	53.93	53.88	53.71	53.75
17	53.82	53.81	52.21	52.16	53.74	53.80	52.14	53.74	53.89	53.86	53.72	53.73
18	53.82	53.80	53.27	48.18	53.73	53.78	51.13	53.74	53.87	53.84	53.72	53.72
19	53.88	53.80	53.72	44.12	53.73	53.77	50.02	53.73	53.88	53.84	53.72	53.71
20	53.85	53.80	53.71	44.33	53.74	53.76	48.86	53.90	53.89	53.87	53.71	53.71
21	53.80	53.80	52.61	45.58	53.90	53.76	49.31	53.82	53.86	53.83	53.70	53.70
22	53.79	53.79	48.68	46.67	53.84	53.78	51.30	53.78	53.84	53.90	53.73	53.70
23	53.78	53.84	52.92	47.51	53.79	53.89	53.61	53.77	53.82	53.87	53.73	53.69
24	53.79	54.14	53.90	47.95	53.83	53.81	53.77	53.76	53.81	53.83	53.71	53.69
25	53.79	53.99	53.86	47.97	53.80	53.79	53.76	53.75	53.80	53.81	53.70	53.67
26	53.78	53.90	53.84	47.67	53.78	53.78	53.76	53.74	53.80	53.79	53.69	53.72
27	53.78	53.87	53.82	48.20	53.77	53.79	53.77	53.74	53.49	53.78	53.69	53.71
28	53.80	53.91	53.82	49.56	53.78	54.11	53.76	53.74	53.09	53.80	52.79	53.68
29	53.88	53.86	53.63	50.87	---	53.68	53.64	53.73	53.86	53.92	45.22	53.69
30	53.82	53.84	52.32	52.38	---	53.14	53.40	53.73	53.85	53.83	49.82	53.68
31	53.82	---	53.65	53.52	---	53.75	---	53.72	---	53.82	53.94	---
MEAN	53.82	53.87	53.44	50.27	53.76	53.77	53.10	53.15	53.85	53.31	53.29	53.74
MAX	53.97	54.18	54.01	53.78	53.90	54.11	53.94	53.90	54.45	54.07	53.94	53.89
MIN	52.80	53.78	48.68	44.12	53.72	53.14	48.86	48.48	53.09	45.77	45.22	53.67



03455773 LAKE LOGAN AT DAM NEAR HAZELWOOD, NC—Continued

PRECIPITATION RECORDS

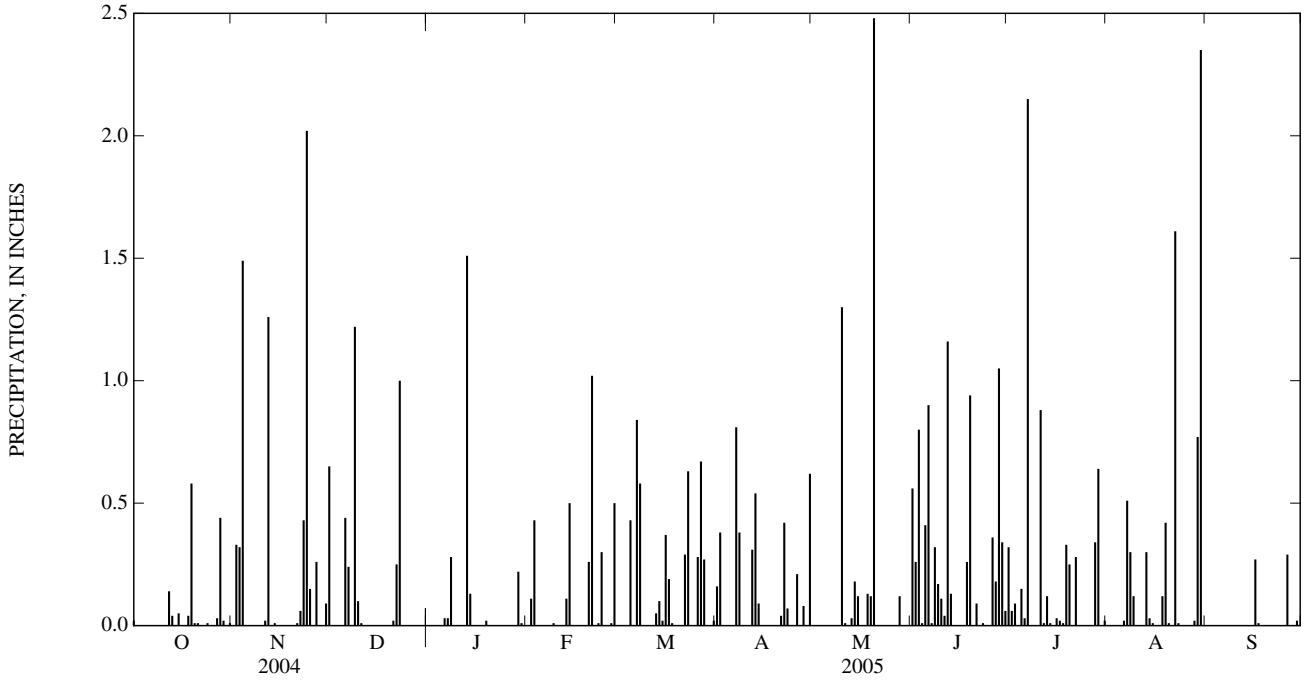
PERIOD OF RECORD.--December 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.02	0.00	0.65	0.00	0.00	0.00	0.16	0.00	0.56	0.32	0.00	0.00
2	0.00	0.33	0.00	0.00	0.11	0.00	0.38	0.00	0.26	0.06	0.00	0.00
3	0.00	0.32	0.00	0.00	0.43	0.00	0.00	0.00	0.80	0.09	0.00	0.00
4	0.00	1.49	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.41	0.15	0.00	0.00
6	0.00	0.00	0.44	0.03	0.00	0.00	0.00	0.00	0.90	0.03	0.02	0.00
7	0.00	0.00	0.24	0.03	0.00	0.84	0.81	0.00	0.01	2.15	0.51	0.00
8	0.00	0.00	0.00	0.28	0.00	0.58	0.38	0.00	0.32	0.00	0.30	0.00
9	0.00	0.00	1.22	0.00	0.01	0.00	0.00	0.00	0.17	0.00	0.12	0.00
10	0.00	0.00	0.10	0.00	0.00	0.00	0.00	1.30	0.11	0.00	0.00	0.00
11	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.01	0.04	0.88	0.00	0.00
12	0.14	1.26	0.00	0.00	0.00	0.00	0.31	0.00	1.16	0.01	0.00	0.00
13	0.04	0.00	0.00	1.51	0.11	0.05	0.54	0.03	0.13	0.12	0.30	0.00
14	0.00	0.01	0.00	0.13	0.50	0.10	0.09	0.18	0.00	0.01	0.03	0.00
15	0.05	0.00	0.00	0.00	0.00	0.02	0.00	0.12	0.00	0.00	0.01	0.00
16	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.03	0.00	0.27
17	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.02	0.00	0.01
18	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.13	0.26	0.01	0.12	0.00
19	0.58	0.00	0.00	0.02	0.00	0.00	0.00	0.12	0.94	0.33	0.42	0.00
20	0.01	0.00	0.00	0.00	0.26	0.00	0.00	2.48	0.00	0.25	0.01	0.00
21	0.01	0.01	0.02	0.00	1.02	0.00	0.04	0.00	0.09	0.00	0.00	0.00
22	0.00	0.06	0.25	0.00	0.00	0.29	0.42	0.00	0.00	0.28	1.61	0.00
23	0.00	0.43	1.00	0.00	0.01	0.63	0.07	0.00	0.01	0.00	0.01	0.00
24	0.01	2.02	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.28	0.21	0.00	0.36	0.00	0.00	0.29
27	0.03	0.26	0.00	0.00	0.01	0.67	0.00	0.00	0.18	0.00	0.00	0.00
28	0.44	0.00	0.00	0.00	0.50	0.27	0.08	0.12	1.05	0.34	0.02	0.00
29	0.02	0.00	0.00	0.22	---	0.00	0.00	0.00	0.34	0.64	0.77	0.02
30	0.00	0.09	0.00	0.01	---	0.00	0.62	0.00	0.06	0.00	2.35	0.00
31	0.01	---	0.00	0.00	---	0.02	---	0.00	---	0.02	0.00	---
TOTAL	1.40	6.45	3.93	2.23	3.26	4.75	4.11	4.49	8.17	5.74	6.60	0.59



0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC

LOCATION.--Lat 35°25'36", long 82°55'11", Haywood County, Hydrologic Unit 06010106, on right bank at upstream side of bridge on State Highway 215, and 1.6 mi southwest of Retreat.

DRAINAGE AREA.--33.5 mi^2.

PERIOD OF RECORD.--March 1988 to current year.

REVISED RECORDS.--WRD NC-04-1: 1990-1994(M), 1996(M).

GAGE.--Water-stage recorder and crest-stage gages. Elevation of gage is 2,839 ft above NGVD of 1929, from topographic map. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Some low flow regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 4,000 ft^3/s on basis of computation of peak flow over dam at Lake Logan. Maximum gage-height for period of record from high-water mark at gage.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e330	66	324	140	84	125	115	208	75	e340	145	205
2	e250	69	212	132	84	113	301	200	305	e270	122	161
3	e270	140	187	126	e200	111	160	105	171	e210	107	140
4	e210	e506	167	121	125	108	147	e30	110	e205	109	124
5	e190	205	153	115	108	127	129	e23	91	e180	95	114
6	e170	140	251	115	104	112	110	e24	128	e170	93	106
7	e160	118	355	105	100	131	144	e30	103	673	115	98
8	e150	102	255	128	108	e410	289	41	208	418	154	92
9	e145	89	412	105	116	212	174	39	147	e440	125	87
10	139	81	356	e290	115	182	136	100	115	e495	107	82
11	130	80	278	e326	e96	165	118	83	165	e190	94	78
12	124	386	242	106	e92	151	119	66	1,110	501	84	74
13	155	210	215	53	e105	148	186	75	993	332	93	71
14	114	157	191	240	e130	177	180	57	488	280	115	68
15	107	137	253	233	125	144	163	75	371	248	82	65
16	99	124	181	219	112	182	166	62	312	225	77	76
17	89	114	148	e280	101	168	163	51	271	202	81	70
18	88	104	e102	e360	87	143	161	47	244	179	80	58
19	121	96	139	274	85	136	157	44	249	175	82	54
20	104	91	e134	49	101	129	126	245	264	209	74	53
21	86	84	e290	51	e280	121	e54	117	224	169	70	51
22	80	81	270	51	232	139	e36	84	199	249	95	50
23	75	132	454	52	168	299	58	69	184	204	90	50
24	75	509	298	66	205	186	76	60	168	155	72	48
25	70	348	236	156	169	162	65	56	155	140	67	47
26	66	229	208	86	146	151	68	53	163	127	64	69
27	64	209	186	32	136	166	72	47	e240	116	62	63
28	73	239	175	e27	153	562	62	46	144	131	e210	51
29	138	185	230	e30	---	212	78	41	e245	272	e350	52
30	83	169	157	e33	---	130	133	38	e180	165	582	51
31	71	---	96	39	---	107	---	34	---	148	326	---
TOTAL	4,026	5,200	7,155	4,140	3,667	5,409	3,946	2,250	7,822	7,818	4,022	2,408
MEAN	130	173	231	134	131	174	132	72.6	261	252	130	80.3
MAX	330	509	454	360	280	562	301	245	1,110	673	582	205
MIN	64	66	96	27	84	107	36	23	75	116	62	47

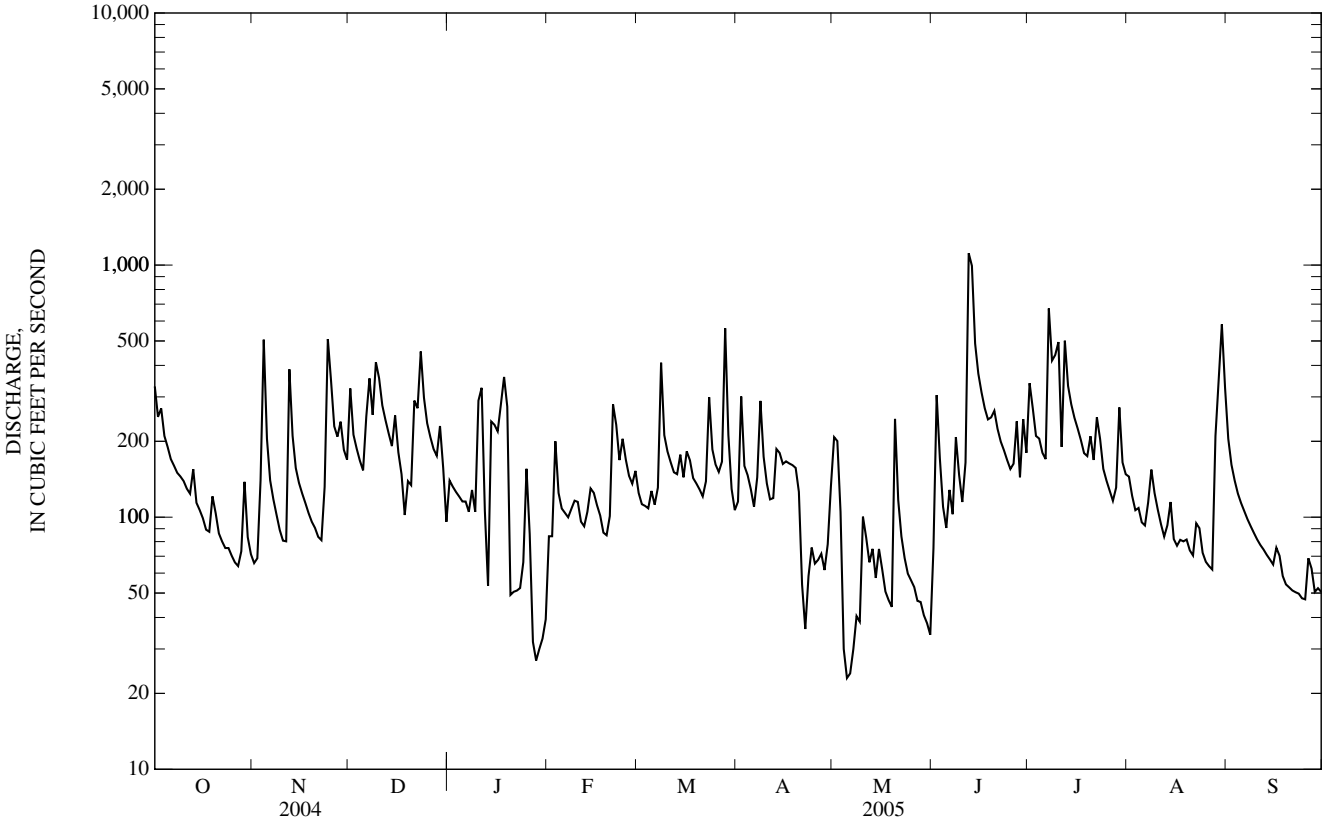
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	84.2	110	125	164	183	190	150	118	103	77.9	76.8	103
MAX	262	265	239	314	360	309	268	244	261	252	220	732
(WY)	(1996)	(1993)	(1993)	(1996)	(1990)	(1990)	(1994)	(2003)	(2005)	(2005)	(1994)	(2004)
MIN	18.5	34.7	52.1	83.4	81.1	62.6	72.2	48.1	40.0	31.3	24.7	17.3
(WY)	(1999)	(1999)	(1989)	(2004)	(2002)	(1988)	(1995)	(2001)	(1988)	(1993)	(1998)	(1998)

0345577330 WEST FORK PIGEON RIVER NEAR RETREAT, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	61,083		57,863			
ANNUAL MEAN	167		159		126	
HIGHEST ANNUAL MEAN					159	2005
LOWEST ANNUAL MEAN					69.4	2001
HIGHEST DAILY MEAN	3,630	Sep 8	1,110	Jun 12	3,630	Sep 8, 2004
LOWEST DAILY MEAN	32	Aug 27	23	May 5	15	Sep 27, 1998
ANNUAL SEVEN-DAY MINIMUM	39	Aug 21	41	May 4	16	Sep 11, 1998
MAXIMUM PEAK FLOW			2,760	Aug 30	15,600*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.40	Aug 30	14.15*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			NOT DETERMINED		12	Jul 19, 2001
10 PERCENT EXCEEDS	292		284		236	
50 PERCENT EXCEEDS	91		129		87	
90 PERCENT EXCEEDS	49		54		31	

* See REMARKS.
e Estimated.



03456100 WEST FORK PIGEON RIVER AT BETHEL, NC

LOCATION.--Lat 35°27'50", long 82°54'00", Haywood County, Hydrologic Unit 06010106, on left bank 20 ft downstream of bridge on Secondary Road 1112, 0.6 mi southwest of Bethel, 1.6 mi upstream from confluence with East Fork Pigeon River, and 5.6 mi downstream of Lake Logan.

DRAINAGE AREA.--58.4 mi^2.

PERIOD OF RECORD.--January 1981 to current year.

REVISED RECORDS.--WDR NC-04-1: 1983(M), 1994(M).

GAGE.--Water-stage recorder. Datum of gage is 2,667.78 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation, at times, caused by Lake Logan (station 03455773). Maximum discharge for period of record from rating curve extended above 7,000 ft^3/s on basis of slope-area measurement of peak flow. Maximum gage height for period of record from high-water mark in gage. Minimum discharge for current water year also occurred Aug. 5.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	463	123	366	186	122	157	243	272	139	364	171	282
2	332	122	270	178	121	142	392	263	377	292	150	223
3	361	164	245	171	214	141	279	199	262	235	133	190
4	327	531	226	e165	152	137	263	72	225	227	139	167
5	299	273	211	e160	136	155	245	71	195	202	113	153
6	274	200	272	e155	132	142	223	70	230	197	119	140
7	251	175	369	150	128	148	245	94	214	761	135	130
8	231	161	292	168	132	429	387	126	276	452	186	122
9	222	148	437	149	137	243	e290	123	247	466	154	115
10	211	139	420	320	137	215	e255	188	210	521	137	108
11	201	136	338	351	e125	198	237	191	245	231	121	103
12	193	411	300	154	e120	183	e230	154	1,270	599	110	98
13	214	268	272	132	e125	182	e310	171	1,180	398	110	94
14	183	216	247	331	e140	204	e300	146	517	340	144	90
15	170	194	287	279	e136	178	e280	162	389	297	107	86
16	155	180	220	256	134	208	275	151	323	271	100	97
17	149	169	211	306	128	202	268	136	280	247	103	95
18	147	160	135	383	117	177	261	130	260	222	103	81
19	174	152	186	301	114	170	255	127	274	217	110	76
20	158	146	e180	124	122	162	234	382	284	253	96	74
21	143	139	303	122	297	155	114	266	246	212	91	72
22	135	135	294	120	245	163	91	213	217	266	122	71
23	130	178	548	114	189	322	152	186	198	244	128	69
24	128	564	379	128	214	219	181	168	181	190	97	66
25	124	439	297	178	189	197	168	156	167	172	88	65
26	120	308	265	132	170	188	168	147	175	159	85	85
27	116	276	241	95	162	195	173	138	262	147	83	86
28	119	305	227	65	179	727	158	135	169	151	233	68
29	169	250	248	71	---	369	169	127	264	296	374	68
30	127	231	222	74	---	279	221	119	203	196	1,020	68
31	121	---	147	85	---	237	---	112	---	175	461	---
TOTAL	6,147	6,893	8,655	5,603	4,317	6,824	7,067	4,995	9,479	9,000	5,323	3,242
MEAN	198	230	279	181	154	220	236	161	316	290	172	108
MAX	463	564	548	383	297	727	392	382	1,270	761	1,020	282
MIN	116	122	135	65	114	137	91	70	139	147	83	65

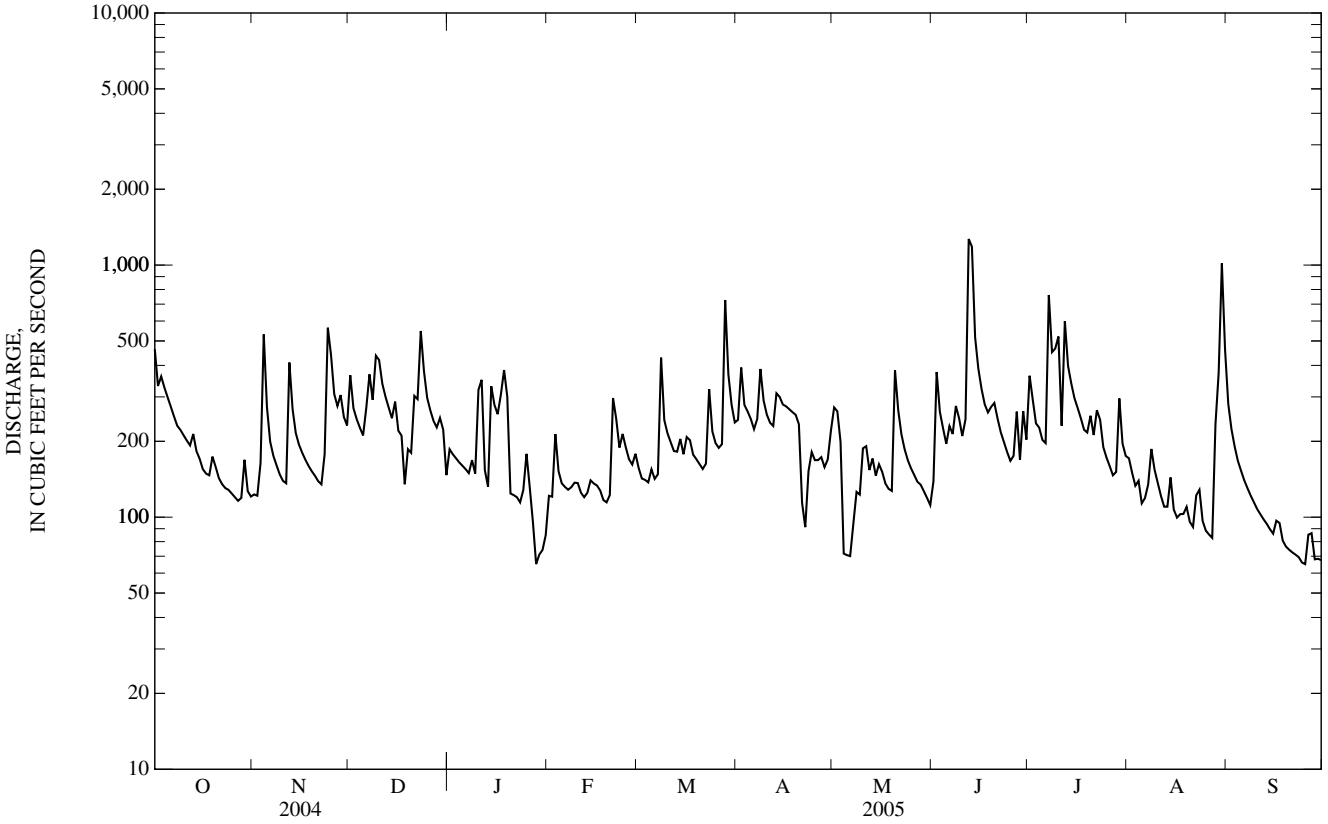
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2005, BY WATER YEAR (WY)

MEAN	96.6	134	171	200	247	259	221	171	124	96.9	92.1	114
MAX	336	341	334	450	522	461	481	381	316	290	317	1,057
(WY)	(1996)	(1993)	(1984)	(1998)	(1998)	(1997)	(1983)	(2003)	(2005)	(2005)	(1994)	(2004)
MIN	30.5	43.0	83.5	53.5	102	83.6	83.5	81.0	53.0	42.0	29.3	27.6
(WY)	(1999)	(1982)	(1989)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(2002)	(1993)	(1998)

03456100 WEST FORK PIGEON RIVER AT BETHEL, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1981 - 2005	
ANNUAL TOTAL	87,974		77,545			
ANNUAL MEAN	240		212		162	
HIGHEST ANNUAL MEAN					224	2004
LOWEST ANNUAL MEAN					87.5	1988
HIGHEST DAILY MEAN	5,720	Sep 17	1,270	Jun 12	5,720	Sep 17, 2004
LOWEST DAILY MEAN	64	Aug 27	65	Jan 28	9.2	Sep 2, 1986
ANNUAL SEVEN-DAY MINIMUM	69	Aug 22	70	Sep 19	16	Sep 2, 1986
MAXIMUM PEAK FLOW			4,450	Aug 30	19,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.39	Aug 30	16.27*	Sep 17, 2004
INSTANTANEOUS LOW FLOW			57*	Aug 4	4.2	Sep 5, 1986
10 PERCENT EXCEEDS	367		339		305	
50 PERCENT EXCEEDS	143		179		113	
90 PERCENT EXCEEDS	87		102		44	

* See REMARKS.
e Estimated.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°27'42", long 82°52'11", Haywood County, Hydrologic Unit 06010106, on right bank 800 ft upstream from bridge on U.S. Highway 276, 0.3 mi downstream of Dix Creek, 1.6 mi upstream from confluence with West Fork Pigeon River, and 5.2 mi southwest of Canton.

DRAINAGE AREA.--51.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--March 1954 to current year.

REVISED RECORDS.--WDR NC-73-1: 1966(M), 1972(M).

GAGE.--Water-stage recorder. Datum of gage is 2,674.34 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record, from rating curve extended above 6,000 ft^3/s, on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Dec. 11, 1981, result of freezeup, and Oct. 9, 1994.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	492	114	279	158	99	119	254	137	120	190	148	237
2	413	112	225	150	97	107	354	125	452	194	132	192
3	360	119	207	143	145	105	268	119	287	162	119	166
4	320	369	191	137	114	103	243	114	237	164	113	148
5	288	205	177	131	105	114	221	112	200	152	106	136
6	268	159	182	127	103	110	202	110	181	140	e110	126
7	249	142	208	120	100	109	211	104	163	681	e125	119
8	222	132	184	125	103	238	302	100	207	444	e210	112
9	214	123	285	115	107	161	248	95	196	306	173	105
10	204	118	289	110	104	148	226	120	185	263	155	99
11	184	116	244	106	95	140	210	120	229	492	137	95
12	185	269	220	103	93	132	204	97	1,330	801	123	92
13	192	190	203	172	93	126	246	99	1,370	469	116	87
14	163	163	186	492	107	131	254	92	708	368	112	83
15	168	151	172	244	103	119	225	98	503	312	104	80
16	143	143	164	208	95	132	207	92	383	289	98	84
17	138	138	156	e183	91	130	193	85	312	249	98	82
18	139	134	148	e171	86	118	181	82	277	231	103	74
19	146	135	142	e159	85	116	170	82	281	261	99	70
20	145	120	e137	149	90	111	160	270	249	307	89	68
21	124	114	e133	143	150	107	152	183	219	278	103	66
22	123	112	127	136	139	112	163	150	195	255	108	64
23	121	127	801	e131	117	234	172	134	176	234	108	63
24	120	469	384	e126	132	173	149	121	161	197	86	61
25	119	387	299	e122	121	157	139	112	149	178	81	60
26	112	273	257	117	113	151	136	104	157	163	77	70
27	112	240	225	110	110	163	137	98	183	150	75	69
28	113	256	206	103	134	951	127	96	194	146	77	59
29	130	213	191	110	---	453	124	91	201	209	85	61
30	112	195	179	115	---	339	153	87	170	163	754	58
31	112	---	167	104	---	288	---	83	---	146	375	---
TOTAL	5,931	5,538	6,968	4,620	3,031	5,697	6,031	3,512	9,675	8,594	4,399	2,886
MEAN	191	185	225	149	108	184	201	113	322	277	142	96.2
MAX	492	469	801	492	150	951	354	270	1,370	801	754	237
MIN	112	112	127	103	85	103	124	82	120	140	75	58
CFSM	3.72	3.58	4.36	2.89	2.10	3.57	3.90	2.20	6.26	5.38	2.76	1.87
IN.	4.28	4.00	5.03	3.34	2.19	4.12	4.36	2.54	6.99	6.21	3.18	2.08

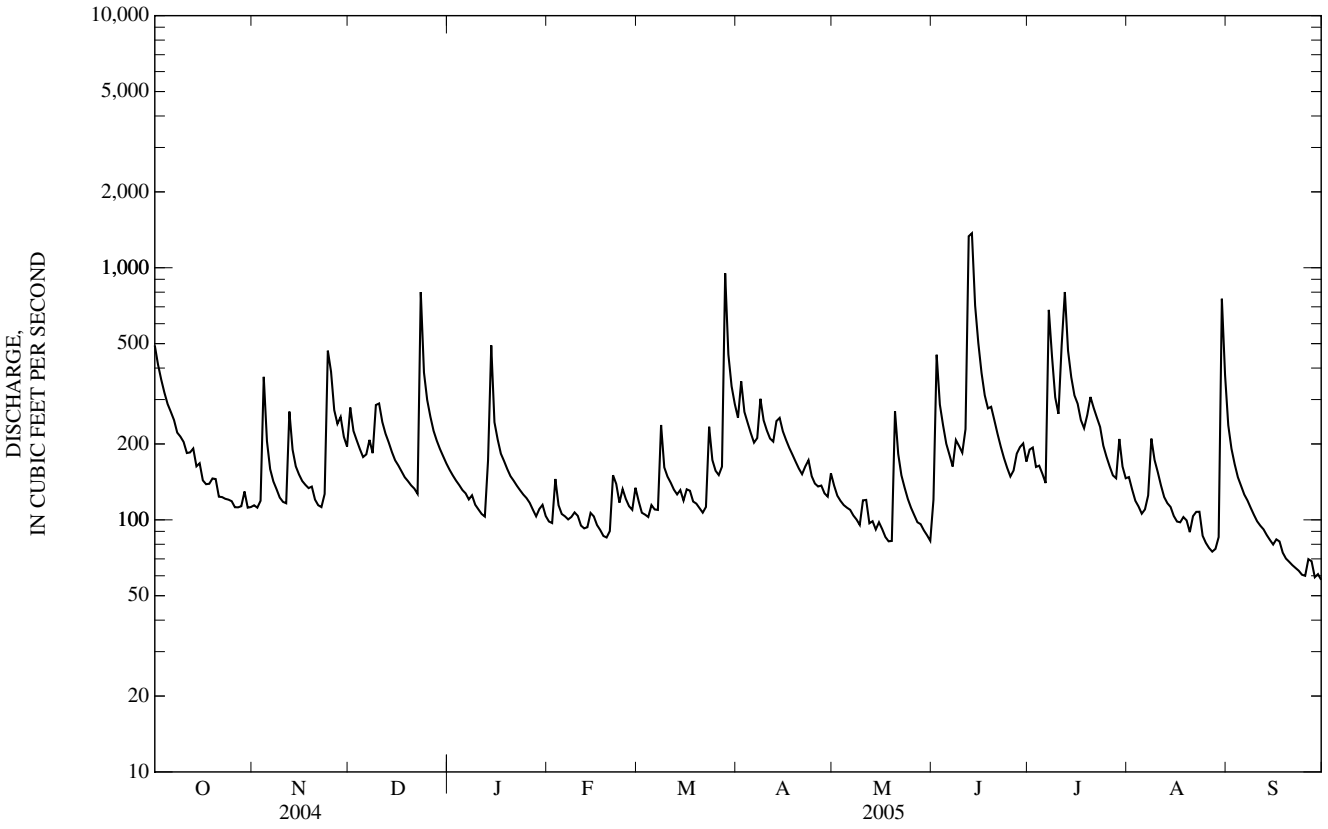
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2005, BY WATER YEAR (WY)

MEAN	108	133	147	165	201	230	206	155	118	78.3	77.9	99.3
MAX	363	484	337	444	517	541	480	453	339	277	263	1,057
(WY)	(1965)	(1980)	(1962)	(1998)	(1998)	(1979)	(1957)	(1976)	(1967)	(2005)	(1994)	(2004)
MIN	17.1	27.9	42.4	33.8	71.9	60.9	63.2	59.8	35.7	25.3	25.1	16.0
(WY)	(1955)	(1955)	(1956)	(1956)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1954)

03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1954 - 2005	
ANNUAL TOTAL	77,854		66,882			
ANNUAL MEAN	213		183		143	
HIGHEST ANNUAL MEAN					207	2004
LOWEST ANNUAL MEAN					71.9	1988
HIGHEST DAILY MEAN	6,200	Sep 8	1,370	Jun 13	6,200	Sep 8, 2004
LOWEST DAILY MEAN	43	Jul 23	58	Sep 30	13	Sep 13, 1998
ANNUAL SEVEN-DAY MINIMUM	47	Jul 18	63	Sep 24	13	Sep 12, 1998
MAXIMUM PEAK FLOW			2,870	Jun 12	12,900*	Sep 17, 2004
MAXIMUM PEAK STAGE			5.27	Jun 12	13.05	Sep 17, 2004
INSTANTANEOUS LOW FLOW			54	Sep 30	12*	Jan 9, 1956
ANNUAL RUNOFF (CFSM)	4.13		3.56		2.79	
ANNUAL RUNOFF (INCHES)	56.24		48.31		37.85	
10 PERCENT EXCEEDS	321		288		266	
50 PERCENT EXCEEDS	117		143		101	
90 PERCENT EXCEEDS	65		92		36	

* See REMARKS.
e Estimated.



03456500 EAST FORK PIGEON RIVER NEAR CANTON, NC—Continued

PRECIPITATION RECORDS

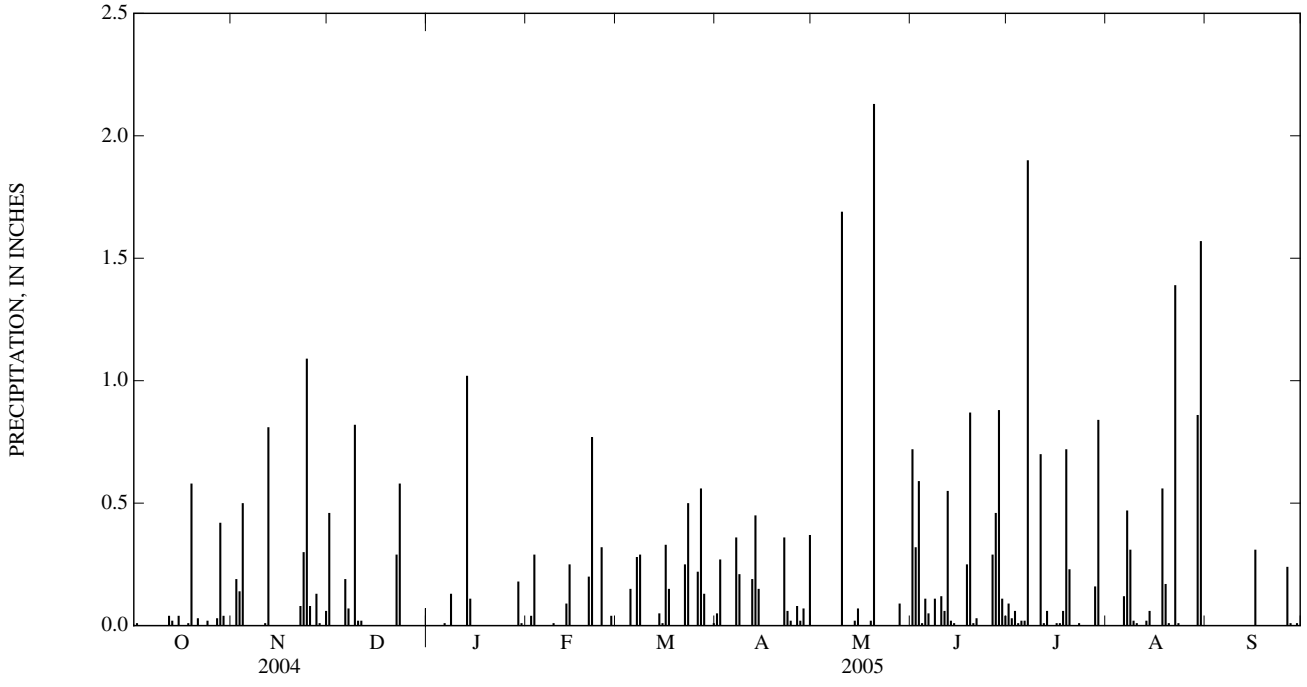
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite and telephone telemetry at station.

REMARKS.--Gage is operated in cooperation with Blue Ridge Paper Products, Inc. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.46	0.00	0.00	0.00	0.05	0.00	0.72	0.09	0.00	0.00
2	0.01	0.19	0.00	0.00	0.04	0.00	0.27	0.00	0.32	0.03	0.00	0.00
3	0.00	0.14	0.00	0.00	0.29	0.00	0.00	0.00	0.59	0.06	0.00	0.00
4	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.11	0.02	0.00	0.00
6	0.00	0.00	0.19	0.01	0.00	0.00	0.00	0.00	0.05	0.02	0.12	0.00
7	0.00	0.00	0.07	0.00	0.00	0.28	0.36	0.00	0.00	1.90	0.47	0.00
8	0.00	0.00	0.00	0.13	0.00	0.29	0.21	0.00	0.11	0.00	0.31	0.00
9	0.00	0.00	0.82	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00
10	0.00	0.00	0.02	0.00	0.00	0.00	0.00	1.69	0.12	0.00	0.01	0.00
11	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.70	0.00	0.00
12	0.04	0.81	0.00	0.00	0.00	0.00	0.19	0.00	0.55	0.01	0.00	0.00
13	0.02	0.00	0.00	1.02	0.09	0.00	0.45	0.00	0.02	0.06	0.02	0.00
14	0.00	0.00	0.00	0.11	0.25	0.05	0.15	0.02	0.01	0.00	0.06	0.00
15	0.04	0.00	0.00	0.00	0.00	0.01	0.00	0.07	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.01	0.00	0.31
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.01	0.00	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.06	0.56	0.00
19	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.87	0.72	0.17	0.00
20	0.00	0.00	0.00	0.00	0.20	0.00	0.00	2.13	0.01	0.23	0.01	0.00
21	0.03	0.00	0.00	0.00	0.77	0.00	0.00	0.00	0.03	0.00	0.00	0.00
22	0.00	0.08	0.29	0.00	0.00	0.25	0.36	0.00	0.00	0.00	1.39	0.00
23	0.00	0.30	0.58	0.00	0.00	0.50	0.06	0.00	0.00	0.01	0.01	0.00
24	0.02	1.09	0.00	0.00	0.32	0.00	0.02	0.00	0.00	0.00	0.00	0.00
25	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.22	0.08	0.00	0.29	0.00	0.00	0.24
27	0.03	0.13	0.00	0.00	0.04	0.56	0.02	0.00	0.46	0.00	0.00	0.01
28	0.42	0.01	0.00	0.00	0.00	0.13	0.07	0.09	0.88	0.16	0.00	0.00
29	0.04	0.00	0.00	0.18	---	0.00	0.00	0.00	0.11	0.84	0.86	0.01
30	0.00	0.06	0.00	0.01	---	0.00	0.37	0.00	0.04	0.00	1.57	0.00
31	0.00	---	0.00	0.00	---	0.01	---	0.00	---	0.00	0.00	---
TOTAL	1.24	3.40	2.45	1.46	2.01	2.93	2.66	4.02	5.61	4.94	5.58	0.57



03456991 PIGEON RIVER NEAR CANTON, NC

LOCATION.--Lat 35°31'23", long 82°50'48", Haywood County, Hydrologic Unit 06010106, on right bank 600 ft upstream from State Highway 215 bridge, 1.3 mi upstream from U.S. Highways 19 and 23 at Canton, and at mile 64.9.

DRAINAGE AREA.--130 mi^2.

PERIOD OF RECORD.--May 1907 to June 1909, October 1928 to current year. Monthly discharge only for some periods published in WSP 1306. Published as Pigeon River at Canton, NC (03457000) May 1907 to June 1909, October 1928 to September 1983.

REVISED RECORDS.--WSP 823: Drainage area. WSP 853: 1929-37(M). WSP 1306: 1903(M). WDR NC-91-1: 1984-89(M).

GAGE.--Water-stage recorder. Datum of gage is 2,581.66 ft above NGVD of 1929 (Tennessee Valley Authority bench mark). Prior to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum. Dec. 6, 1928, to Jan. 3, 1929, nonrecording gage at site 0.8 mi downstream at different datum. Prior to Oct. 1, 1983, water-stage recorder at site 0.8 mi downstream at different datum. Satellite and telephone telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Occasional diurnal fluctuation and considerable regulation at low flow, since 1932, caused by Lake Logan (station 03455773) on West Fork Pigeon River 11.2 mi upstream. Prior to regulation, maximum discharge: 21,500 ft^3/s, Aug. 16, 1928; gage height: 16.40 ft; minimum discharge: 39 ft^3/s, Sept. 3, 1930. Maximum discharge for period of record from rating curve extended above 20,000 ft^3/s on basis of slope-area measurment of peak flow. Minimum discharge for period of record, at former site, result of freezeup. Minimum discharge for current water year also occurred Sept. 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of about 1810 is believed to have been approximately equal to that of Aug. 30, 1940, and flood of June 15, 1876, reached a stage of 18.3 ft; discharge, 25,700 ft^3/s, at former site, from studies by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	916	237	629	368	241	309	466	399	257	545	351	567
2	692	235	499	352	238	274	669	378	783	527	313	461
3	682	291	458	340	360	276	507	336	552	436	276	405
4	611	851	428	329	295	269	470	199	476	420	287	363
5	556	498	404	317	e260	293	438	194	411	388	239	334
6	510	379	441	308	e256	281	404	194	420	364	261	309
7	474	341	564	290	e252	278	416	203	402	1,610	286	290
8	443	315	485	311	e256	649	622	236	475	978	413	272
9	423	296	703	285	e265	424	505	230	473	781	352	256
10	409	281	734	401	261	388	452	315	408	831	316	242
11	392	272	588	477	233	364	425	345	482	692	282	233
12	376	644	524	287	e226	342	411	265	2,430	1,480	254	222
13	401	474	482	272	232	330	499	289	3,100	896	242	213
14	359	392	446	813	278	349	537	253	1,290	737	280	204
15	342	364	469	528	282	317	476	270	906	650	232	195
16	315	341	394	470	e252	349	459	262	717	575	217	208
17	303	323	394	474	e238	356	441	237	606	513	224	214
18	302	311	307	539	e221	317	425	228	556	466	248	185
19	334	300	350	484	e217	308	410	226	614	555	235	176
20	314	288	e342	296	229	295	395	693	568	609	204	171
21	291	276	425	287	e410	284	281	480	490	537	210	168
22	278	268	452	276	421	286	259	387	435	470	236	164
23	268	319	1,270	e270	e320	542	324	344	397	e520	280	160
24	264	1,010	770	267	e345	411	334	310	367	e390	203	154
25	254	850	596	e280	339	375	312	291	341	e360	186	151
26	244	581	525	272	308	357	305	277	348	e340	179	169
27	240	507	474	237	296	371	315	261	467	328	172	188
28	238	556	442	191	339	1,550	289	255	443	319	264	153
29	311	468	436	200	---	761	297	244	507	524	495	152
30	253	432	438	217	---	583	353	232	411	401	1,810	150
31	235	---	330	205	---	483	---	219	---	350	935	---
TOTAL	12,030	12,700	15,799	10,643	7,870	12,771	12,496	9,052	20,132	18,592	10,482	7,129
MEAN	388	423	510	343	281	412	417	292	671	600	338	238
MAX	916	1,010	1,270	813	421	1,550	669	693	3,100	1,610	1,810	567
MIN	235	235	307	191	217	269	259	194	257	319	172	150

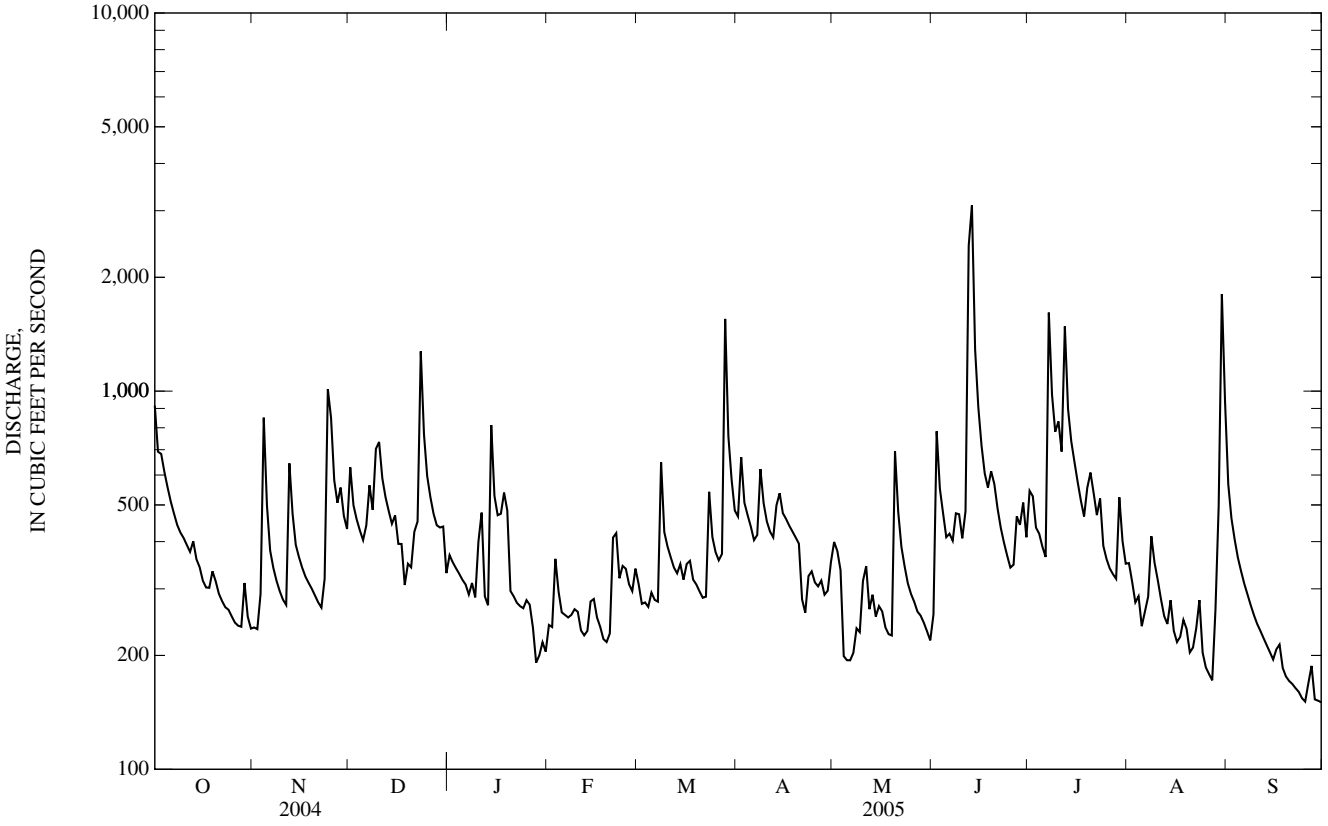
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1932 - 2005*, BY WATER YEAR (WY)

MEAN	222	267	325	417	472	528	463	338	266	198	201	221
MAX	787	964	872	1,017	1,150	1,058	1,005	981	781	600	1,476	2,504
(WY)	(1965)	(1980)	(1933)	(1937)	(1939)	(1975)	(1983)	(1976)	(1967)	(2005)	(1940)	(2004)
MIN	48.2	59.2	64.5	85.3	150	155	167	132	96.5	88.6	65.9	47.8
(WY)	(1955)	(1955)	(1940)	(1956)	(1941)	(1988)	(1986)	(1941)	(1941)	(2002)	(1954)	(1998)

03456991 PIGEON RIVER NEAR CANTON, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1932 - 2005*	
ANNUAL TOTAL	184,232		149,696			
ANNUAL MEAN	503		410		326	
HIGHEST ANNUAL MEAN					503	1949
LOWEST ANNUAL MEAN					170	1988
HIGHEST DAILY MEAN	19,800	Sep 8	3,100	Jun 13	19,800	Sep 8, 2004
LOWEST DAILY MEAN	130	Jul 21	150	Sep 30	27	Sep 7, 1954
ANNUAL SEVEN-DAY MINIMUM	144	Jul 18	160	Sep 24	40	Sep 13, 1998
MAXIMUM PEAK FLOW			6,500	Jun 12	48,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.80	Jun 12	22.80	Sep 17, 2004
INSTANTANEOUS LOW FLOW			141*	Sep 26	15*	Jan 8, 1956
10 PERCENT EXCEEDS	632		617		605	
50 PERCENT EXCEEDS	291		342		232	
90 PERCENT EXCEEDS	170		222		87	

* Regulated period only (1932-2005). See REMARKS.
e Estimated.



03459500 PIGEON RIVER NEAR HEPCO, NC

LOCATION.--Lat 35°38'06", long 82°59'24", Haywood County, Hydrologic Unit 06010106, on left bank 95 ft east of Interstate Highway 40, 0.8 mi downstream of Jonathan Creek, 2.0 mi south of Hepco, 2.4 mi upstream from Fines Creek, and at mile 45.1.

DRAINAGE AREA.--350 mi^2.

PERIOD OF RECORD.--July 1927 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928-31, 1932(M), 1933-36, 1937-39(M).

GAGE.--Water-stage recorder. Datum of gage is 2,335.95 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite and telephone telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Regulation by Lake Junaluska (station 03458319) on Richland Creek and Lake Logan (station 03455773) on West Fork Pigeon River for periods at low flow, combined capacity of reservoirs, about 2,000 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 12,000 ft^3/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1876 and February 1902 reached a stage of about 18 ft, from flood profiles by Tennessee Valley Authority; discharge, about 42,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,890	596	1,530	927	564	857	1,050	909	654	936	739	1,150
2	1,480	601	1,220	901	569	746	1,510	843	1,350	1,030	678	913
3	1,410	761	1,100	885	710	727	1,260	808	1,070	927	591	784
4	1,280	1,690	1,020	862	714	708	1,130	662	979	927	594	699
5	1,170	1,360	950	808	650	729	1,050	621	838	809	561	647
6	1,090	982	1,000	805	633	705	981	616	893	748	564	612
7	1,020	872	1,260	726	622	687	951	594	901	3,020	613	574
8	962	805	1,150	743	617	1,420	1,160	627	889	2,310	829	540
9	921	737	1,720	691	624	1,120	1,040	617	964	1,470	750	516
10	895	702	1,940	712	630	1,060	909	737	849	1,510	693	496
11	860	682	1,560	977	591	999	860	879	929	1,230	616	484
12	830	1,470	1,330	727	570	900	834	677	2,080	2,080	565	459
13	883	1,280	1,210	699	571	820	1,080	677	4,790	1,590	562	443
14	812	993	1,110	1,540	645	828	1,360	682	2,230	1,320	677	439
15	776	872	1,070	1,120	671	777	1,210	714	1,570	1,140	560	407
16	731	813	974	993	616	828	1,120	691	1,270	1,070	540	438
17	697	804	983	938	598	927	1,050	633	1,100	988	548	453
18	696	774	847	1,020	571	835	999	608	1,040	898	1,080	398
19	943	745	852	993	558	783	959	578	1,110	1,080	808	377
20	833	714	821	719	577	760	921	2,110	1,250	1,380	603	368
21	724	688	855	674	1,040	742	822	1,360	1,020	1,150	543	361
22	689	660	999	662	1,080	766	800	1,010	904	1,010	492	354
23	659	796	1,880	647	850	1,180	943	889	826	1,090	705	352
24	653	2,220	1,510	662	905	993	911	807	760	845	536	346
25	635	2,470	1,190	874	901	899	824	752	710	771	491	346
26	618	1,560	1,070	857	842	850	803	712	686	715	466	384
27	609	1,280	978	742	817	893	832	675	864	667	445	438
28	605	1,300	921	545	911	2,340	776	665	957	639	446	375
29	867	1,110	906	548	---	1,590	778	645	1,050	914	816	371
30	665	1,020	1,000	589	---	1,300	829	616	902	936	2,500	375
31	605	---	878	537	---	1,090	---	591	---	737	2,060	---
TOTAL	27,508	31,357	35,834	25,123	19,647	29,859	29,752	24,005	35,435	35,937	22,671	14,899
MEAN	887	1,045	1,156	810	702	963	992	774	1,181	1,159	731	497
MAX	1,890	2,470	1,940	1,540	1,080	2,340	1,510	2,110	4,790	3,020	2,500	1,150
MIN	605	596	821	537	558	687	776	578	654	639	445	346

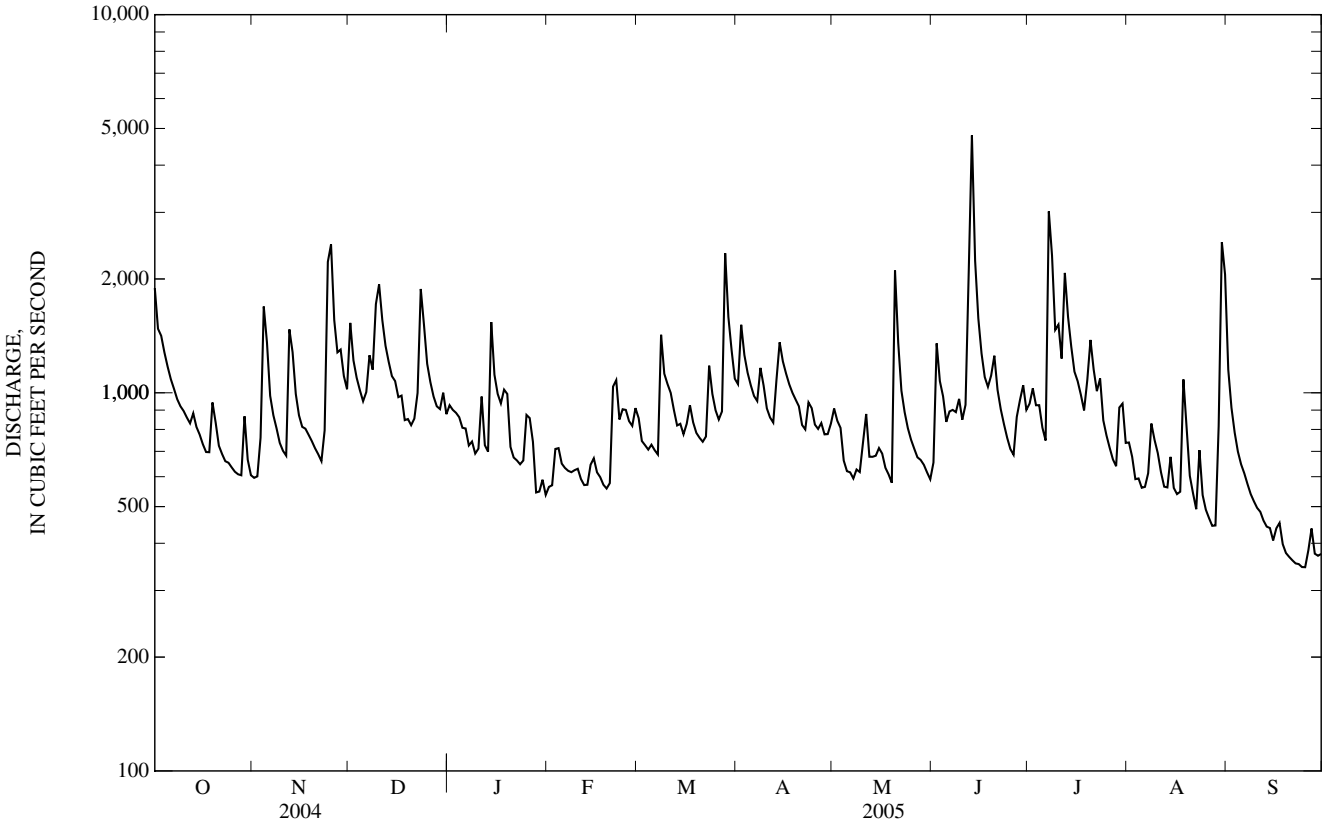
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2005, BY WATER YEAR (WY)

MEAN	417	509	673	871	1,018	1,137	983	732	546	434	426	419
MAX	1,353	1,627	2,125	2,275	2,227	2,455	2,010	1,798	1,502	1,159	2,246	3,636
(WY)	(1965)	(1980)	(1933)	(1937)	(1990)	(1929)	(1936)	(2003)	(1967)	(2005)	(1940)	(2004)
MIN	122	133	193	194	319	346	359	283	200	183	163	123
(WY)	(1955)	(1954)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1988)	(1986)	(1953)	(1999)

03459500 PIGEON RIVER NEAR HEPCO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1927 - 2005	
ANNUAL TOTAL	351,850		332,027			
ANNUAL MEAN	961		910		679	
HIGHEST ANNUAL MEAN					943	1949
LOWEST ANNUAL MEAN					341	1988
HIGHEST DAILY MEAN	23,900	Sep 8	4,790	Jun 13	23,900	Sep 8, 2004
LOWEST DAILY MEAN	308	Jul 22	346	Sep 24	95	Sep 30, 1941
ANNUAL SEVEN-DAY MINIMUM	351	Jul 18	358	Sep 19	100	Sep 12, 1999
MAXIMUM PEAK FLOW			7,360	Jun 13	36,500*	Sep 17, 2004
MAXIMUM PEAK STAGE			7.75	Jun 13	17.31	Sep 17, 2004
INSTANTANEOUS LOW FLOW			338*	Sep 25	81	Sep 30, 1941
10 PERCENT EXCEEDS	1,470		1,350		1,250	
50 PERCENT EXCEEDS	646		829		509	
90 PERCENT EXCEEDS	392		559		207	

* See REMARKS.



03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC

LOCATION.--Lat 35°40'03", long 83°04'25", Haywood County, Hydrologic Unit 06010106, in Great Smoky Mountains National Park, on left bank 20 ft downstream of bridge on State Highway 284, 500 ft upstream from Little Cataloochee Creek, 2 mi north of Cataloochee, and 3.7 mi upstream from mouth.

DRAINAGE AREA.--49.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1933 to September 1952, October 1962 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 823: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,456.88 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Jan. 2, 1940, and Dec. 17, 24, 1943, result of freezeup. Minimum discharge for current water year also occurred Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	167	66	343	103	e93	135	136	131	96	82	95	92
2	152	66	268	100	e91	123	221	126	132	76	87	82
3	141	89	229	98	e109	117	187	121	94	80	79	75
4	130	238	199	96	e93	113	187	115	90	76	77	69
5	120	161	175	93	e91	118	187	113	89	76	78	65
6	111	129	192	100	e91	109	179	109	97	73	73	62
7	105	114	226	93	e90	114	173	103	93	311	79	60
8	100	105	207	131	e91	342	162	99	99	189	92	57
9	96	97	355	105	e91	242	148	96	92	139	81	55
10	93	93	443	99	e91	203	136	113	94	119	75	e53
11	90	90	390	99	e88	180	127	102	91	117	68	e51
12	87	153	322	96	e87	163	128	100	130	105	65	e49
13	92	129	268	123	e92	151	175	98	191	105	67	48
14	84	117	225	212	e131	154	229	94	137	98	70	47
15	82	112	196	156	e146	138	191	103	120	95	63	46
16	77	108	178	145	e144	145	171	94	109	99	73	54
17	75	103	164	132	e135	142	157	90	102	99	79	49
18	73	99	152	e123	e130	131	146	87	100	97	137	45
19	115	95	144	e112	e128	126	137	85	95	114	113	43
20	84	93	136	107	e140	121	128	203	108	176	92	43
21	77	88	133	e104	e340	116	122	138	94	147	81	42
22	73	85	122	e100	e299	120	125	122	87	130	74	41
23	71	120	181	e99	e199	161	141	114	88	112	69	40
24	74	415	139	e154	e189	135	123	108	80	101	65	40
25	69	477	131	e101	161	131	115	102	76	93	62	39
26	67	324	127	e97	146	127	117	97	77	87	61	52
27	71	252	120	e96	137	127	120	93	82	81	60	48
28	67	219	116	e92	152	191	115	93	88	85	65	41
29	86	183	113	e98	---	158	126	88	93	100	68	48
30	72	170	111	e100	---	150	137	85	82	80	161	42
31	68	---	107	e95	---	143	---	82	---	114	116	---
TOTAL	2,869	4,590	6,212	3,459	3,775	4,626	4,546	3,304	3,006	3,456	2,525	1,578
MEAN	92.5	153	200	112	135	149	152	107	100	111	81.5	52.6
MAX	167	477	443	212	340	342	229	203	191	311	161	92
MIN	67	66	107	92	87	109	115	82	76	73	60	39
CFSM	1.88	3.11	4.07	2.27	2.74	3.03	3.08	2.17	2.04	2.27	1.66	1.07
IN.	2.17	3.47	4.70	2.62	2.85	3.50	3.44	2.50	2.27	2.61	1.91	1.19

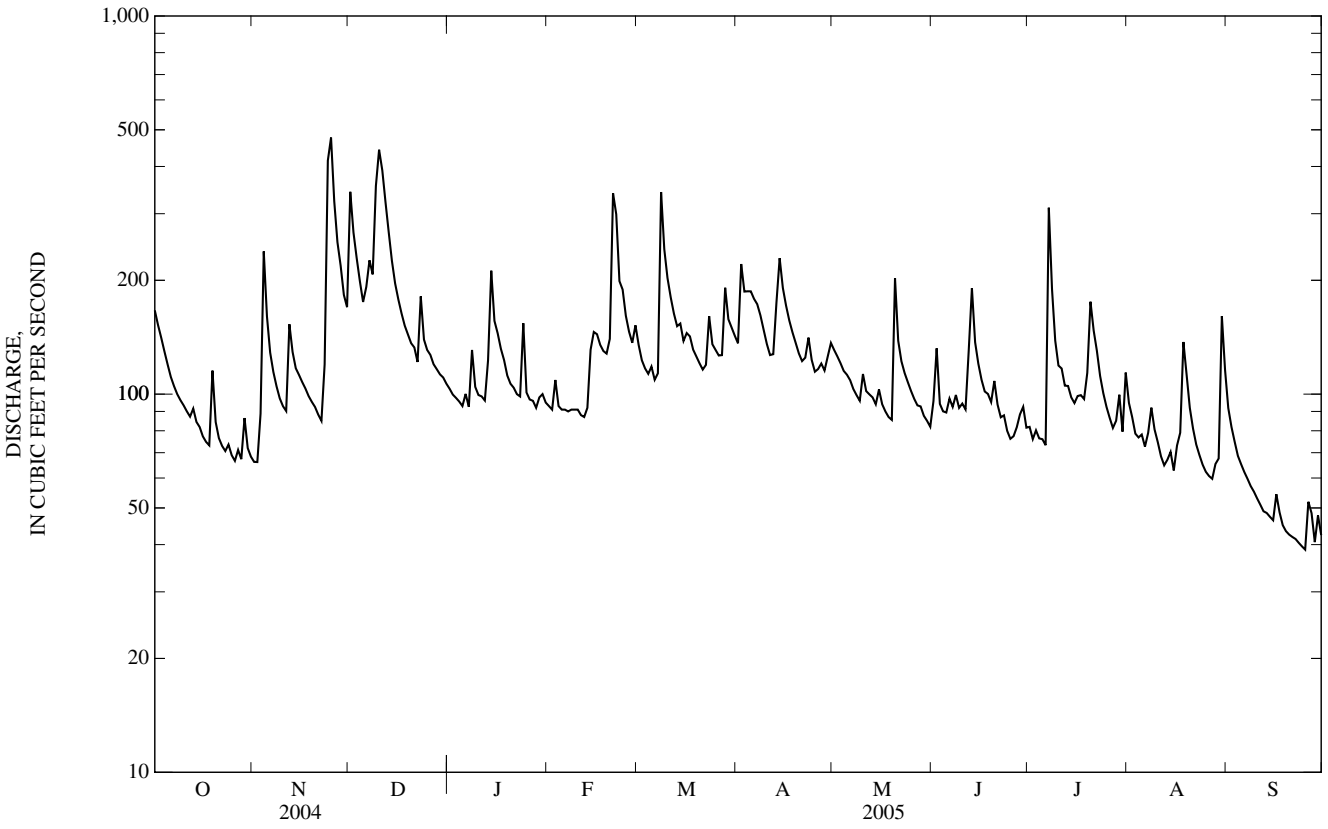
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1934 - 2005,@ BY WATER YEAR (WY)

MEAN	53.5	72.3	113	162	178	201	156	114	85.0	74.9	71.6	58.2
MAX	146	159	302	392	394	496	305	289	252	182	223	361
(WY)	(1990)	(1980)	(1973)	(1937)	(1990)	(1963)	(1936)	(2003)	(1967)	(1949)	(1940)	(2004)
MIN	21.3	22.3	26.0	35.5	49.5	63.2	58.8	46.2	34.7	29.6	26.9	23.5
(WY)	(1999)	(1940)	(1940)	(1940)	(1941)	(1988)	(1986)	(1986)	(1986)	(1986)	(1987)	(1998)

03460000 CATALOOCHEE CREEK NEAR CATALOOCHEE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1934 - 2005[@]	
ANNUAL TOTAL	52,400		43,946			
ANNUAL MEAN	143		120		112	
HIGHEST ANNUAL MEAN					171	1994
LOWEST ANNUAL MEAN					51.5	1986
HIGHEST DAILY MEAN	1,900	Sep 17	477	Nov 25	2,690	Mar 16, 1973
LOWEST DAILY MEAN	55	Jul 23	39	Sep 25	12	Jan 2, 1940
ANNUAL SEVEN-DAY MINIMUM	61	Jul 19	41	Sep 19	18	Oct 21, 1998
MAXIMUM PEAK FLOW			734	Nov 24	5,080	Mar 6, 1963
MAXIMUM PEAK STAGE			4.16	Nov 24	8.08	Mar 6, 1963
INSTANTANEOUS LOW FLOW			37*	Sep 25	9.4*	Jan 2, 1940
ANNUAL RUNOFF (CFSM)	2.91		2.45		2.27	
ANNUAL RUNOFF (INCHES)	39.62		33.23		30.80	
10 PERCENT EXCEEDS	227		188		204	
50 PERCENT EXCEEDS	106		103		82	
90 PERCENT EXCEEDS	72		67		34	

[@] See PERIOD OF RECORD.
* See REMARKS.
e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC

LOCATION.--Lat 35°47'01", long 83°06'43", Cocke County Tennessee, Hydrologic Unit 06010105, on left bank, 550 ft upstream of Browns Bridge on Waterville Road, 0.9 mi downstream of North Carolina and Tennessee state lines, 1.0 mi northwest of Waterville, and at mile 25.

DRAINAGE AREA.--538 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1997 to current year.

REVISED RECORDS.--WDR NC-04-1: 1997(M), 1998(M), 2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,360 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Considerable regulation, caused by Walters Hydroelectric Plant, 1.0 mi upstream. Maximum discharge for period of record from rating curve extended above 11,000 ft^3/s on basis of slope-conveyance measurement of peak flow. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,590	1,220	2,170	938	937	1,730	2,840	1,550	1,270	1,410	1,110	1,830
2	2,330	1,090	2,460	766	774	1,910	3,250	1,430	2,100	1,350	1,500	1,450
3	2,230	1,510	2,540	1,650	961	1,580	2,200	1,420	1,530	1,380	1,370	1,050
4	2,090	1,670	1,630	1,780	1,550	1,480	2,090	1,360	1,590	1,650	1,420	378
5	1,900	1,550	1,720	2,210	736	851	2,300	1,260	1,550	1,460	1,170	1,070
6	1,820	856	2,350	1,780	532	1,160	2,360	1,560	1,220	1,760	1,270	865
7	1,620	1,010	1,830	1,800	628	1,430	1,970	764	1,480	3,510	665	1,040
8	1,320	1,430	1,690	781	702	2,270	1,890	535	1,330	3,910	1,210	871
9	1,370	1,460	3,230	496	556	2,280	1,190	1,370	1,660	2,980	1,320	908
10	1,330	1,510	3,550	950	1,420	2,020	1,500	1,620	1,200	2,440	1,270	887
11	1,180	1,190	3,450	1,120	1,730	1,860	1,980	1,250	1,760	2,730	1,180	257
12	1,410	1,510	3,190	1,780	1,150	1,950	1,910	858	1,620	1,890	893	1,010
13	1,750	2,070	2,750	1,590	683	1,400	1,960	863	5,460	2,120	917	1,000
14	1,110	1,220	2,350	2,760	1,130	1,910	2,700	1,800	3,230	2,130	645	786
15	1,770	1,190	1,530	1,610	1,140	1,980	2,760	715	2,570	1,790	595	872
16	1,560	1,460	2,210	1,070	1,190	1,780	2,280	1,340	1,970	1,560	952	1,060
17	1,820	1,440	1,950	1,660	1,740	2,010	1,400	1,300	1,850	1,740	953	623
18	1,750	1,330	1,850	1,830	1,440	1,900	1,920	1,320	1,450	1,670	1,240	518
19	1,310	1,130	983	1,810	583	989	1,900	1,090	1,460	1,810	1,400	530
20	1,200	1,090	1,590	1,420	606	555	1,860	2,370	e1,660	2,190	1,280	737
21	1,080	595	2,030	1,720	2,250	1,380	2,200	2,800	e1,750	1,850	1,400	347
22	1,030	1,520	1,990	1,710	2,350	1,560	2,110	2,270	1,550	1,760	948	566
23	308	1,560	2,540	1,400	2,060	1,600	547	1,720	1,650	1,690	1,300	612
24	275	2,420	2,380	1,350	1,900	2,120	631	1,430	1,250	1,430	1,320	332
25	775	4,380	1,910	1,150	2,090	2,110	1,340	825	1,310	1,470	988	330
26	1,240	3,250	1,630	1,440	1,590	2,040	2,360	1,530	449	1,360	820	319
27	1,450	2,850	2,080	1,470	1,620	1,320	1,940	1,380	1,330	1,680	832	749
28	1,500	2,330	1,720	1,370	2,030	2,810	2,080	851	2,180	1,440	892	751
29	1,510	2,330	1,710	1,100	---	2,450	1,520	763	1,550	1,350	1,700	797
30	1,620	2,130	1,620	681	---	2,310	1,270	618	1,290	1,230	2,040	551
31	1,060	---	1,490	1,320	---	2,250	---	1,160	---	915	2,700	---
TOTAL	45,308	50,301	66,123	44,512	36,078	54,995	58,258	41,122	52,269	57,655	37,300	23,096
MEAN	1,462	1,677	2,133	1,436	1,288	1,774	1,942	1,327	1,742	1,860	1,203	770
MAX	2,590	4,380	3,550	2,760	2,350	2,810	3,250	2,800	5,460	3,910	2,700	1,830
MIN	275	595	983	496	532	555	547	535	449	915	595	257

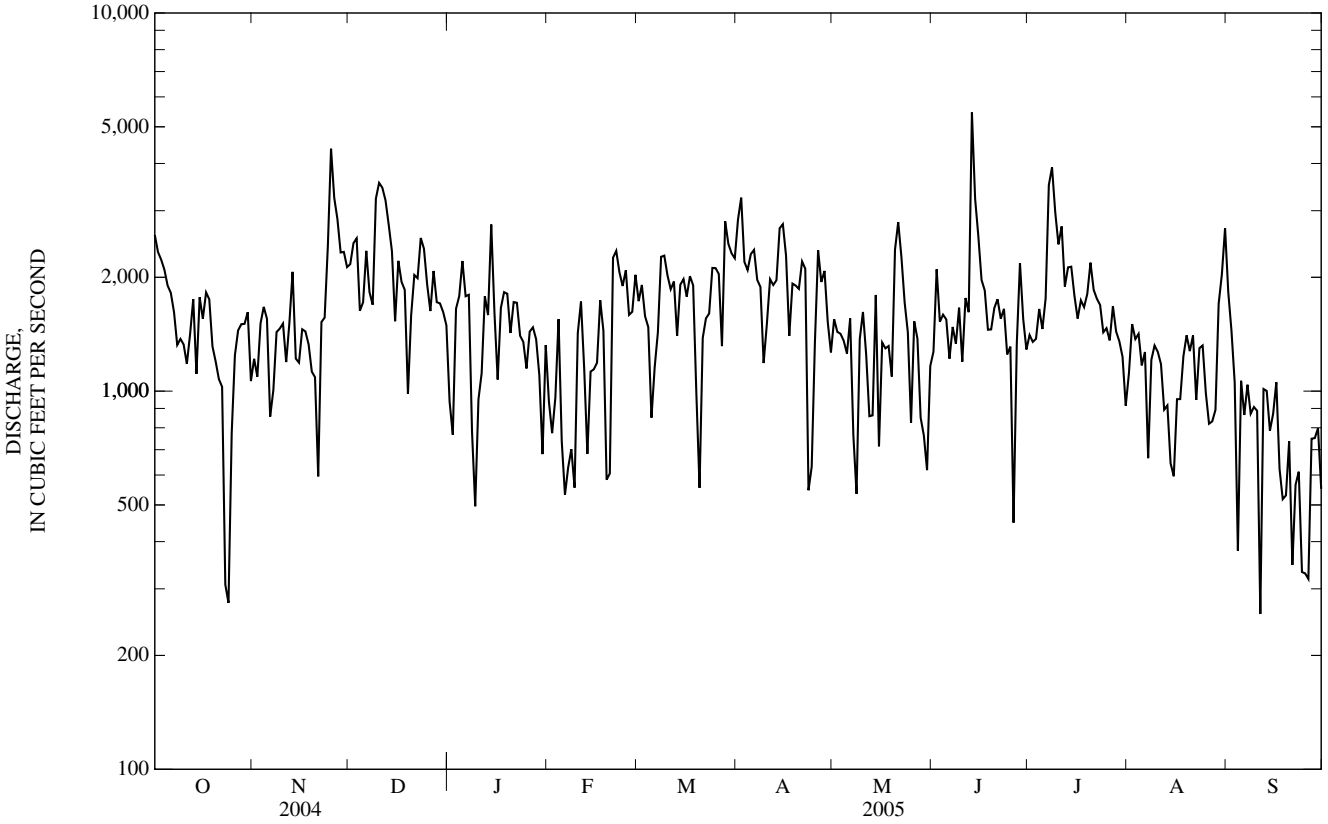
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	512	784	1,010	1,228	1,543	1,705	1,594	1,304	953	910	611	887
MAX	1,462	1,677	2,133	2,187	3,096	3,505	2,540	2,835	1,742	1,860	1,203	4,517
(WY)	(2005)	(2005)	(2005)	(1998)	(1998)	(1997)	(1998)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	153	286	554	810	794	1,063	961	676	471	409	293	176
(WY)	(1999)	(2002)	(2002)	(2000)	(2002)	(2002)	(2002)	(2001)	(2002)	(2002)	(2002)	(1999)

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	564,472		567,017			
ANNUAL MEAN	1,542		1,553		1,060	
HIGHEST ANNUAL MEAN					1,553	2005
LOWEST ANNUAL MEAN					644	2002
HIGHEST DAILY MEAN	22,500	Sep 8	5,460	Jun 13	22,500	Sep 8, 2004
LOWEST DAILY MEAN	177	Jul 11	257	Sep 11	74	Nov 19, 2000
ANNUAL SEVEN-DAY MINIMUM	556	Aug 21	463	Sep 20	117	Oct 2, 1998
MAXIMUM PEAK FLOW			10,900	Jun 13	39,000*	Sep 17, 2004
MAXIMUM PEAK STAGE			11.24	Jun 13	18.88	Sep 17, 2004
INSTANTANEOUS LOW FLOW			178*	Jul 27	24*	Jun 23, 2002
10 PERCENT EXCEEDS	2,480		2,350		2,090	
50 PERCENT EXCEEDS	1,240		1,490		844	
90 PERCENT EXCEEDS	581		744		189	

* See REMARKS.
e Estimated.



03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water years 1997 to current year.
DISSOLVED OXYGEN: Water years 1997 to current year.

INSTRUMENTATION.--Water-quality monitor since May 1997.

REMARKS.--Interruptions in the data are due to malfunctions of the monitor. Data were collected during the current year for the months of October 2004, May through September 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	24.9, August 14, 2002	6.8, June 2, 2001
DISSOLVED OXYGEN, mg/L	12.4, September 17, 2004	3.1, November 1, 1998

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
WATER TEMPERATURE, °C	23.3, August 24	14.1, May 13, 14
DISSOLVED OXYGEN, mg/L	11.5, May 29	6.0, August 28

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	16.2	16.0	16.1	---	---	---	---	---	---	---	---	---
2	16.6	16.0	16.2	---	---	---	---	---	---	---	---	---
3	16.4	16.1	16.3	---	---	---	---	---	---	---	---	---
4	16.2	15.9	16.1	---	---	---	---	---	---	---	---	---
5	16.1	15.9	16.0	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	15.0	14.1	14.5
14	---	---	---	---	---	---	---	---	---	15.7	14.1	15.1
15	---	---	---	---	---	---	---	---	---	15.8	14.8	15.3
16	---	---	---	---	---	---	---	---	---	16.1	14.9	15.6
17	---	---	---	---	---	---	---	---	---	16.6	15.1	15.9
18	---	---	---	---	---	---	---	---	---	16.9	15.6	16.4
19	---	---	---	---	---	---	---	---	---	17.0	16.1	16.7
20	---	---	---	---	---	---	---	---	---	17.0	16.3	16.8
21	---	---	---	---	---	---	---	---	---	17.1	16.5	16.9
22	---	---	---	---	---	---	---	---	---	17.2	16.1	16.8
23	---	---	---	---	---	---	---	---	---	17.3	16.3	16.9
24	---	---	---	---	---	---	---	---	---	17.4	16.4	16.9
25	---	---	---	---	---	---	---	---	---	17.0	15.1	16.0
26	---	---	---	---	---	---	---	---	---	17.0	15.2	16.4
27	---	---	---	---	---	---	---	---	---	17.0	15.5	16.4
28	---	---	---	---	---	---	---	---	---	16.9	15.9	16.4
29	---	---	---	---	---	---	---	---	---	16.6	15.5	16.0
30	---	---	---	---	---	---	---	---	---	17.0	15.7	16.3
31	---	---	---	---	---	---	---	---	---	16.8	16.1	16.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.9	16.3	16.6	20.7	19.8	20.3	22.6	21.4	22.1	21.4	20.6	21.1
2	17.2	16.2	16.8	20.9	20.0	20.5	22.4	20.9	21.8	21.2	20.6	21.0
3	17.1	16.3	16.7	20.9	20.2	20.7	22.5	21.4	22.1	21.2	20.5	20.9
4	17.0	16.2	16.7	21.1	20.4	20.8	22.7	21.8	22.3	21.3	20.1	20.7
5	17.1	16.6	16.9	21.1	20.2	20.7	22.8	21.9	22.4	20.9	20.0	20.5
6	19.0	16.8	17.6	21.1	20.5	20.8	22.8	21.7	22.4	20.8	20.1	20.6
7	17.8	16.9	17.4	20.9	18.3	19.5	22.6	22.0	22.2	20.9	20.0	20.5
8	17.9	17.0	17.6	19.3	18.5	18.8	22.5	21.6	22.1	20.8	20.0	20.5
9	18.7	17.4	18.1	18.9	18.3	18.6	22.3	21.3	21.8	20.7	19.9	20.4
10	19.1	17.7	18.5	19.4	18.6	19.0	22.4	21.3	21.9	20.9	19.9	20.4
11	19.5	18.1	19.0	19.8	19.3	19.6	22.5	21.3	22.0	21.1	20.0	20.5
12	19.9	18.8	19.5	19.9	19.3	19.6	22.5	21.5	22.0	20.9	19.8	20.3
13	20.9	18.3	19.8	19.9	19.4	19.6	22.9	21.8	22.3	20.8	20.1	20.5
14	19.4	18.0	18.4	19.8	19.4	19.6	23.0	21.6	22.2	20.9	20.0	20.5
15	18.5	18.2	18.3	19.9	19.3	19.7	22.8	21.7	22.2	21.0	20.2	20.6
16	18.7	18.1	18.5	20.0	19.5	19.8	22.9	21.9	22.4	21.0	20.4	20.7
17	19.0	18.2	18.8	20.4	19.6	20.0	22.9	22.2	22.6	21.5	20.5	20.8
18	19.1	18.2	18.7	20.2	17.9	19.8	22.7	21.7	22.4	21.2	20.1	20.6
19	19.3	18.4	18.8	19.9	17.8	19.1	22.5	20.8	21.8	21.4	20.1	20.7
20	18.6	18.0	18.3	20.5	19.4	20.0	22.6	21.6	22.2	21.2	20.4	20.8
21	18.4	16.5	17.9	20.9	19.8	20.4	23.0	22.1	22.6	21.4	20.4	20.9
22	18.3	17.1	17.8	21.2	20.2	20.8	22.9	22.2	22.6	21.5	20.5	20.9
23	18.6	17.6	18.2	21.6	20.3	21.1	23.1	22.2	22.7	21.2	20.6	21.0
24	18.8	17.9	18.4	21.9	20.5	21.3	23.3	22.2	22.9	21.4	20.6	21.0
25	19.0	18.1	18.6	22.2	20.9	21.6	23.1	22.6	22.9	21.4	20.8	21.0
26	19.4	18.5	19.0	22.2	21.3	21.8	23.0	22.1	22.6	21.1	20.8	21.0
27	19.4	18.5	18.9	22.5	21.7	22.2	22.9	22.2	22.6	21.4	20.7	21.0
28	19.7	19.0	19.4	22.6	21.8	22.3	22.9	22.0	22.5	21.4	20.6	21.1
29	20.3	19.0	19.6	22.7	21.9	22.4	23.1	22.3	22.8	21.3	20.9	21.1
30	20.4	19.3	19.9	22.7	21.8	22.3	23.0	22.0	22.6	21.4	20.3	20.9
31	---	---	---	22.7	21.9	22.2	22.2	21.3	21.8	---	---	---
MONTH	20.9	16.2	18.3	22.7	17.8	20.5	23.3	20.8	22.3	21.5	19.8	20.8

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.2	9.0	9.1	---	---	---	---	---	---	---	---	---
2	9.2	8.8	9.1	---	---	---	---	---	---	---	---	---
3	9.4	9.0	9.2	---	---	---	---	---	---	---	---	---
4	9.0	8.7	8.9	---	---	---	---	---	---	---	---	---
5	9.0	8.7	8.8	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	9.6	8.2	8.8
18	---	---	---	---	---	---	---	---	---	10.3	8.4	9.4
19	---	---	---	---	---	---	---	---	---	10.6	8.9	9.8
20	---	---	---	---	---	---	---	---	---	9.8	8.4	9.1
21	---	---	---	---	---	---	---	---	---	10.1	8.5	9.3
22	---	---	---	---	---	---	---	---	---	10.4	9.0	9.8
23	---	---	---	---	---	---	---	---	---	10.3	9.0	9.7
24	---	---	---	---	---	---	---	---	---	10.6	9.0	9.9
25	---	---	---	---	---	---	---	---	---	11.2	9.5	10.4
26	---	---	---	---	---	---	---	---	---	10.9	9.5	10.2
27	---	---	---	---	---	---	---	---	---	11.2	9.3	10.2
28	---	---	---	---	---	---	---	---	---	11.0	9.3	10.2
29	---	---	---	---	---	---	---	---	---	11.5	9.5	10.6
30	---	---	---	---	---	---	---	---	---	11.4	9.6	10.6
31	---	---	---	---	---	---	---	---	---	9.7	8.6	9.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

03460795 PIGEON RIVER BELOW POWER PLANT NEAR WATERVILLE, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.3	8.6	8.9	7.8	7.1	7.4	8.2	7.5	7.9	7.8	7.3	7.5
2	9.3	8.4	8.8	8.0	7.1	7.4	8.1	7.1	7.7	8.0	7.3	7.5
3	9.5	8.3	8.7	7.9	7.0	7.4	8.1	7.1	7.5	8.0	7.4	7.6
4	8.9	8.3	8.6	8.2	7.1	7.4	7.8	6.8	7.3	8.1	7.4	7.7
5	9.0	8.3	8.5	8.0	7.1	7.5	7.9	6.8	7.2	8.3	7.5	7.7
6	9.1	8.2	8.6	7.8	7.2	7.4	8.2	6.8	7.2	8.4	7.5	7.8
7	9.3	8.3	8.6	8.8	7.2	8.0	7.9	6.8	7.4	8.3	7.5	7.8
8	9.9	8.4	8.8	8.4	8.1	8.3	7.7	6.9	7.3	8.5	7.5	7.9
9	10.0	8.5	8.8	8.2	8.0	8.1	8.1	7.3	7.6	8.5	7.6	7.9
10	9.3	8.5	8.8	8.4	8.1	8.2	7.9	7.2	7.5	8.7	7.5	7.9
11	8.9	8.3	8.6	8.3	8.1	8.2	8.0	6.9	7.4	8.9	7.8	8.2
12	8.8	8.1	8.4	8.5	8.1	8.3	8.4	6.5	7.5	8.6	6.9	7.8
13	9.0	8.1	8.6	8.5	8.1	8.3	---	---	---	7.5	7.0	7.2
14	9.1	8.2	8.8	8.6	8.2	8.4	8.6	6.9	7.5	8.2	7.1	7.5
15	8.7	8.2	8.4	9.3	8.2	8.5	---	---	---	8.2	7.1	7.4
16	8.4	8.1	8.2	9.0	8.3	8.6	---	---	---	8.0	7.0	7.4
17	8.4	8.1	8.2	8.9	8.1	8.5	---	---	---	8.3	7.3	7.7
18	8.6	8.0	8.2	---	---	---	7.8	7.0	7.2	8.5	7.3	7.8
19	8.8	8.0	8.3	---	---	---	8.6	6.6	7.4	8.7	7.3	7.7
20	8.7	8.0	8.3	---	---	---	7.7	6.7	7.2	8.3	6.9	7.5
21	9.2	8.3	8.6	---	---	---	7.2	6.6	6.9	8.2	7.0	7.6
22	9.1	8.2	8.5	8.7	8.1	8.4	7.3	6.7	7.0	8.6	6.9	7.4
23	9.0	8.1	8.4	8.6	7.9	8.2	7.3	6.6	6.9	8.2	6.8	7.2
24	8.9	7.8	8.4	8.8	7.9	8.3	7.8	6.7	7.0	8.4	7.1	7.6
25	---	---	---	8.6	7.8	8.2	7.7	6.6	7.0	8.2	7.1	7.6
26	---	---	---	8.8	7.8	8.1	7.8	6.5	6.9	7.8	6.8	7.3
27	---	---	---	8.3	7.7	7.9	7.3	6.6	6.8	8.4	6.6	7.4
28	7.7	7.3	7.5	8.3	7.6	7.9	7.7	6.0	6.9	8.2	6.5	7.1
29	8.0	7.2	7.6	8.4	7.6	7.8	6.8	6.2	6.4	7.7	6.7	7.0
30	8.1	7.1	7.5	8.6	7.4	7.9	7.1	6.4	6.6	7.8	6.3	7.2
31	---	---	---	8.8	7.6	8.1	7.4	6.9	7.2	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.9	6.3	7.6

03463300 SOUTH TOE RIVER NEAR CELO, NC

LOCATION.--Lat 35°49'53", long 82°11'03", Yancey County, Hydrologic Unit 06010108, on right bank on Secondary Road 1168, 800 ft upstream from bridge on Secondary Road 1167, 0.3 mi downstream of Whiteoak Creek, 1.9 mi southeast of Celo, and at mile 20.1.

DRAINAGE AREA.--43.3 mi^2.

PERIOD OF RECORD.--July 1957 to current year.

REVISED RECORDS.--WSP 1910: 1958-59. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 2,658 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 5,000 ft^3/s on basis of slope-area measurement of peak flow; gage height from outside floodmarks. Minimum discharge for period of record also occurred Sept. 26, 27, 1999, Sept. 11, 12, 13, 2002. Minimum discharge for current water year also occurred May 31, June 1.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	351	e123	205	116	81	113	203	128	135	219	121	442
2	309	e122	165	113	79	104	364	116	676	190	109	332
3	278	e128	147	108	96	99	252	108	248	195	102	270
4	257	e350	136	105	92	97	231	102	177	182	97	229
5	237	192	128	102	85	104	232	102	138	159	96	202
6	222	136	134	100	85	102	213	97	127	141	106	179
7	210	117	141	94	83	105	202	91	126	686	168	159
8	203	105	125	100	86	198	399	87	811	387	782	144
9	198	96	211	92	92	138	309	83	311	254	367	132
10	187	90	223	89	97	124	236	94	241	215	254	121
11	176	86	182	85	83	117	204	90	246	771	194	114
12	172	241	159	83	80	112	193	80	1,040	1,140	160	107
13	205	195	146	116	85	114	246	77	1,420	481	147	101
14	174	153	133	432	99	143	343	78	618	372	138	95
15	155	147	124	170	94	120	260	87	402	852	127	90
16	144	131	117	142	92	123	219	79	308	831	118	92
17	139	122	112	123	88	120	192	73	253	480	111	88
18	136	115	107	e111	79	112	172	70	225	374	416	80
19	e137	109	103	e106	76	111	155	68	223	323	281	76
20	e135	105	e100	104	82	107	141	98	203	305	197	73
21	e132	99	e97	102	283	104	131	79	181	267	161	70
22	e134	95	93	e100	218	122	157	71	158	238	169	69
23	e145	122	689	e97	157	345	177	78	181	217	220	66
24	e140	382	270	e94	154	205	147	68	142	188	186	63
25	e134	298	203	88	139	167	133	64	129	168	158	65
26	e130	209	173	87	123	153	135	61	129	152	142	78
27	e128	183	153	82	114	184	140	59	503	139	130	69
28	e129	194	141	77	131	905	128	57	406	131	121	61
29	e132	161	134	86	---	347	141	56	346	144	236	59
30	e130	148	128	100	---	253	142	53	272	131	2,660	58
31	e125	---	122	86	---	211	---	51	---	131	772	---
TOTAL	5,484	4,754	5,101	3,490	3,053	5,359	6,197	2,505	10,375	10,463	9,046	3,784
MEAN	177	158	165	113	109	173	207	80.8	346	338	292	126
MAX	351	382	689	432	283	905	399	128	1,420	1,140	2,660	442
MIN	125	86	93	77	76	97	128	51	126	131	96	58
CFSM	4.09	3.66	3.80	2.60	2.52	3.99	4.77	1.87	7.99	7.79	6.74	2.91
IN.	4.71	4.08	4.38	3.00	2.62	4.60	5.32	2.15	8.91	8.99	7.77	3.25

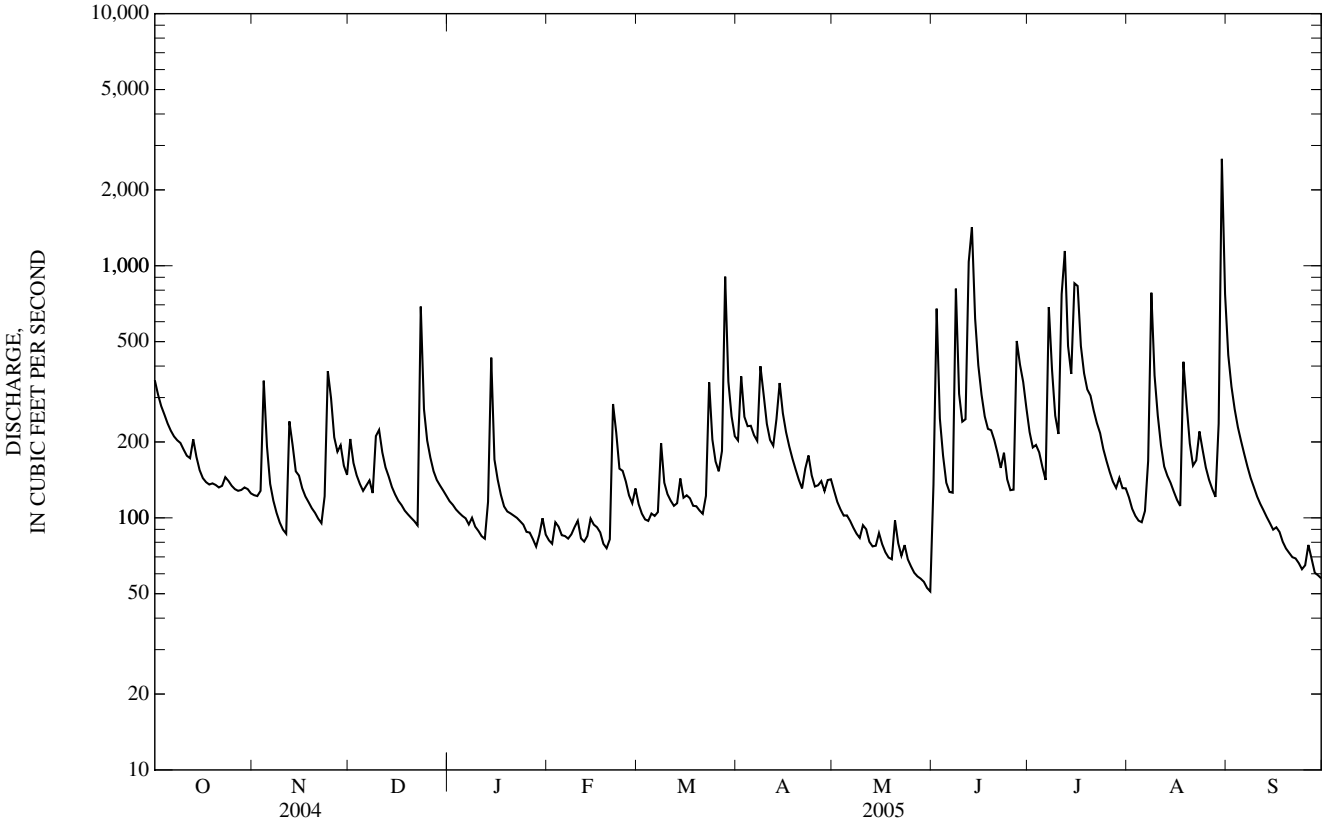
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2005, BY WATER YEAR (WY)

MEAN	123	145	137	159	178	221	189	151	126	87.7	97.3	127
MAX	359	714	277	428	466	596	361	373	415	338	323	1,268
(WY)	(1996)	(1978)	(1984)	(1995)	(1998)	(1979)	(1983)	(1976)	(1972)	(2005)	(1994)	(2004)
MIN	15.8	24.9	41.5	62.2	76.6	69.1	59.7	53.1	34.8	23.3	22.5	14.6
(WY)	(1994)	(1999)	(1966)	(1966)	(1963)	(1988)	(1986)	(1986)	(1988)	(1986)	(2002)	(1998)

03463300 SOUTH TOE RIVER NEAR CELO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1957 - 2005	
ANNUAL TOTAL	74,978		69,611			
ANNUAL MEAN	205		191		145	
HIGHEST ANNUAL MEAN					227	1979
LOWEST ANNUAL MEAN					79.4	1988
HIGHEST DAILY MEAN	8,390	Sep 8	2,660	Aug 30	9,960	Nov 6, 1977
LOWEST DAILY MEAN	37	Jul 23	51	May 31	9.5	Sep 12, 2002
ANNUAL SEVEN-DAY MINIMUM	45	Aug 17	57	May 25	11	Sep 20, 1999
MAXIMUM PEAK FLOW			9,340	Aug 30	32,900*	Nov 6, 1977
MAXIMUM PEAK STAGE			8.11	Aug 30	17.41*	Nov 6, 1977
INSTANTANEOUS LOW FLOW			51*	May 30	9.4*	Sep 25, 1999
ANNUAL RUNOFF (CFSM)	4.73		4.40		3.35	
ANNUAL RUNOFF (INCHES)	64.42		59.80		45.47	
10 PERCENT EXCEEDS	256		336		260	
50 PERCENT EXCEEDS	96		134		99	
90 PERCENT EXCEEDS	51		81		37	

* See REMARKS.
e Estimated.



03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC

LOCATION.--Lat 36°14'21", long 81°49'20", Watauga County, Hydrologic Unit 06010103, on right bank 250 ft upstream from bridge on Secondary Road 1121, 300 ft downstream of Cove Creek, 2.3 mi southwest of Sugar Grove, and at mile 64.4.

DRAINAGE AREA.--92.1 mi^2.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 2,607.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum discharge for period of record from rating curve extended above 7,300 ft^3/s on basis of slope-area measurement of peak flow, from profile based on floodmarks. Minimum discharge for period of record, result of freezeup. Minimum discharge for current water year also occurred Sept. 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 1916 reached a stage of 22.1 ft, from floodmarks on barn 0.25 mi upstream from station, as witnessed by local resident; discharge, 28,000 ft^3/s, from rating curve extended above 4,900 ft^3/s, on basis of slope-area measurement.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	327	222	281	167	152	188	325	288	108	103	96	159
2	293	207	250	159	146	e174	817	247	307	115	86	126
3	269	199	236	153	187	e166	638	221	207	99	108	107
4	246	270	224	149	192	163	514	202	173	220	113	94
5	229	253	212	145	179	210	412	190	151	125	97	87
6	214	218	216	143	172	235	339	182	137	114	86	81
7	204	207	222	136	166	221	317	171	129	606	82	76
8	194	196	204	142	167	282	382	160	145	382	105	72
9	189	184	280	132	171	252	344	152	181	203	218	67
10	183	177	332	127	186	231	294	146	470	160	153	64
11	175	171	339	124	165	222	268	144	260	146	108	62
12	170	277	316	122	157	214	254	138	270	192	93	60
13	293	262	286	190	166	204	271	132	610	168	84	56
14	214	222	255	1,710	225	227	321	176	363	153	82	55
15	192	208	233	543	210	209	259	203	268	146	76	52
16	179	201	219	373	204	212	233	163	216	235	72	51
17	167	195	211	295	190	220	218	141	187	164	73	55
18	162	189	203	258	171	204	207	134	166	192	180	51
19	180	183	197	224	161	203	198	129	171	350	160	48
20	178	178	e186	212	159	194	188	176	173	421	135	46
21	166	170	e178	204	183	185	185	142	148	231	96	45
22	160	165	161	193	177	180	218	130	134	190	83	44
23	157	197	766	192	161	414	223	143	127	160	78	44
24	166	471	476	e181	178	343	206	130	116	137	76	42
25	157	552	332	e169	176	288	195	123	110	124	70	47
26	151	380	275	167	164	258	190	118	106	116	66	57
27	160	317	234	156	160	241	193	113	106	106	65	65
28	264	303	210	140	193	961	180	110	109	107	64	48
29	270	262	199	148	---	717	340	107	102	118	61	47
30	296	245	190	168	---	498	342	103	97	107	428	47
31	247	---	178	155	---	386	---	100	---	104	324	---
TOTAL	6,452	7,281	8,101	7,377	4,918	8,702	9,071	4,814	5,847	5,794	3,618	1,955
MEAN	208	243	261	238	176	281	302	155	195	187	117	65.2
MAX	327	552	766	1,710	225	961	817	288	610	606	428	159
MIN	151	165	161	122	146	163	180	100	97	99	61	42
CFSM	2.26	2.64	2.84	2.58	1.91	3.05	3.28	1.69	2.12	2.03	1.27	0.71
IN.	2.61	2.94	3.27	2.98	1.99	3.51	3.66	1.94	2.36	2.34	1.46	0.79

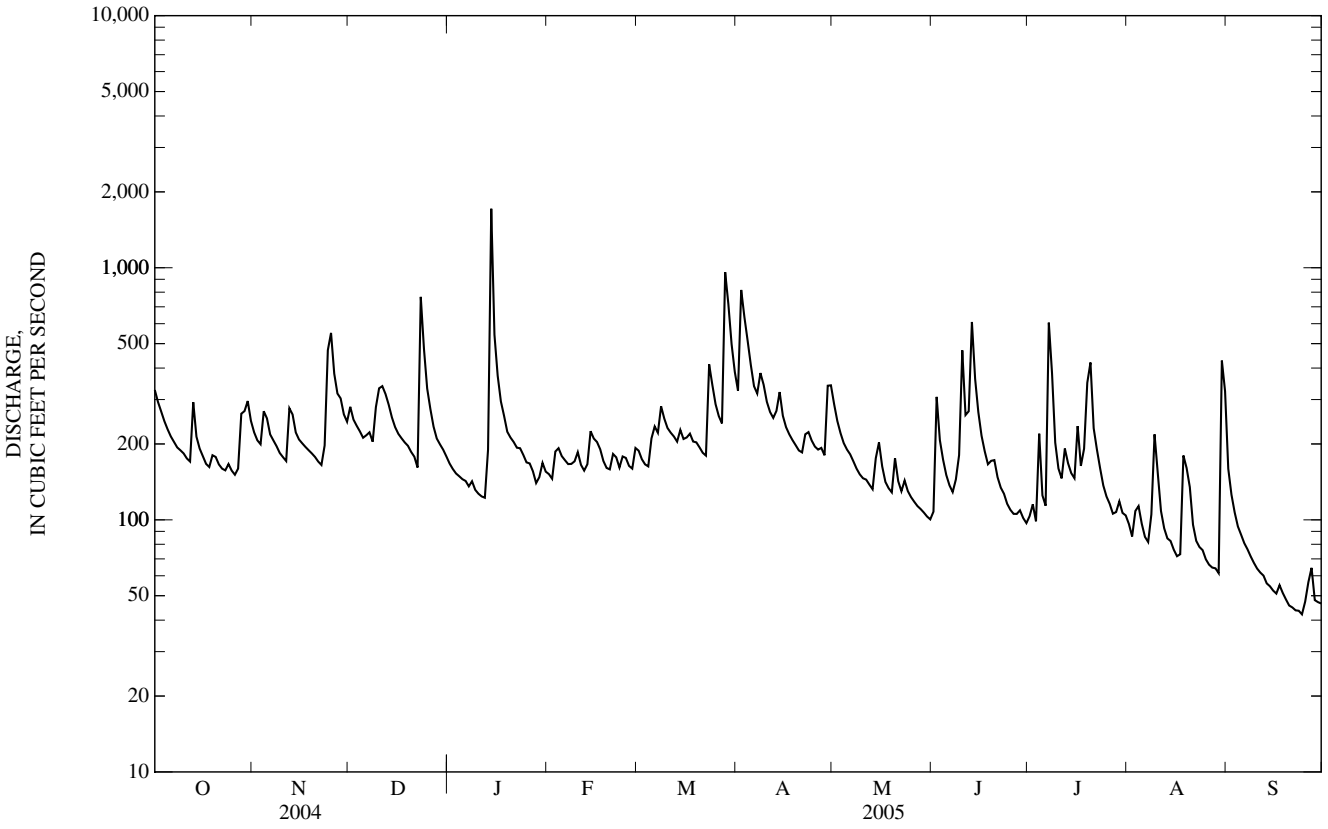
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	111	155	173	210	262	303	259	179	147	113	119	121
MAX	380	662	434	817	643	858	689	411	583	461	1,169	1,049
(WY)	(1965)	(1978)	(1951)	(1995)	(1998)	(1979)	(1987)	(1973)	(1992)	(1989)	(1940)	(2004)
MIN	19.2	34.6	45.6	55.5	67.5	77.0	82.1	67.5	41.4	35.0	23.9	18.1
(WY)	(1955)	(1982)	(1964)	(1956)	(1941)	(1988)	(1986)	(1941)	(1988)	(1944)	(2002)	(1954)

03479000 WATAUGA RIVER NEAR SUGAR GROVE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	92,233		73,930			
ANNUAL MEAN	252		203		177	
HIGHEST ANNUAL MEAN					297	1979
LOWEST ANNUAL MEAN					84.7	1988
HIGHEST DAILY MEAN	8,970	Sep 8	1,710	Jan 14	15,900	Aug 13, 1940
LOWEST DAILY MEAN	41	Aug 31	42	Sep 24	8.1	Sep 13, 2002
ANNUAL SEVEN-DAY MINIMUM	47	Aug 26	45	Sep 19	11	Sep 7, 2002
MAXIMUM PEAK FLOW			4,000	Jan 14	50,800*	Aug 13, 1940
MAXIMUM PEAK STAGE			8.89	Jan 14	29.60	Aug 13, 1940
INSTANTANEOUS LOW FLOW			41*	Sep 24	6.5*	Jan 1, 1954
ANNUAL RUNOFF (CFSM)	2.74		2.20		1.92	
ANNUAL RUNOFF (INCHES)	37.25		29.86		26.15	
10 PERCENT EXCEEDS	312		324		324	
50 PERCENT EXCEEDS	174		180		117	
90 PERCENT EXCEEDS	75		82		39	

* See REMARKS.
e Estimated.



03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC

LOCATION.--Lat 35°09'00", long 83°22'47", Macon County, Hydrologic Unit 06010202, on left bank 600 ft upstream from Owenby Branch, 0.5 mi upstream from Cartoogechaye Creek, 2 mi north of Prentiss, and at mile 119.5.

DRAINAGE AREA.--140 mi^2.

PERIOD OF RECORD.--October 1943 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 1236: 1949(M).

GAGE.--Water-stage recorder. Datum of gage is 2,008.39 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Aug. 30, 31, Sept. 16, 17, 2000.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in October 1898 reached a stage of about 15 ft, from profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	282	752	487	375	510	676	474	375	521	553	782
2	502	303	589	472	373	458	838	426	802	503	498	651
3	474	607	525	462	553	433	734	406	592	456	472	577
4	442	877	486	450	462	416	642	392	504	540	447	527
5	422	650	454	447	417	407	585	383	435	540	473	492
6	405	470	680	439	396	387	545	377	403	466	483	464
7	392	414	1,100	428	381	383	585	364	511	1,390	635	443
8	379	382	906	465	374	574	819	354	763	1,050	801	427
9	372	357	1,120	429	372	450	771	345	619	742	652	410
10	365	342	1,210	416	361	421	635	379	629	920	573	396
11	354	345	926	407	345	402	580	387	676	1,310	521	384
12	352	886	786	401	340	388	553	345	1,350	2,220	477	373
13	388	706	706	545	344	375	681	342	2,420	1,360	525	362
14	350	535	643	1,030	412	379	694	339	1,310	1,070	641	352
15	340	470	607	619	401	361	593	392	989	1,360	510	342
16	327	437	569	540	371	413	548	361	823	990	472	372
17	319	411	546	495	354	418	518	330	720	870	499	350
18	317	392	526	458	335	388	497	318	694	771	563	328
19	357	377	506	439	327	369	477	311	784	782	664	318
20	346	368	479	430	347	359	461	970	e750	709	542	310
21	320	355	466	419	704	349	448	716	e650	654	477	304
22	313	352	459	406	776	374	508	515	e550	613	455	297
23	308	378	1,420	391	544	754	606	444	511	600	534	293
24	311	809	954	377	563	543	484	404	481	548	692	286
25	305	833	745	378	496	466	451	377	456	522	498	279
26	299	597	662	374	453	432	441	359	446	494	453	303
27	296	528	605	362	430	443	448	344	603	470	427	304
28	298	548	569	350	597	1,220	419	334	626	478	407	282
29	297	478	545	393	---	790	411	326	543	864	395	289
30	290	449	525	465	---	631	515	334	482	712	1,610	278
31	285	---	505	397	---	701	---	321	---	573	1,320	---
TOTAL	11,067	14,938	21,571	14,171	12,203	14,994	17,163	12,469	21,497	25,098	18,269	11,575
MEAN	357	498	696	457	436	484	572	402	717	810	589	386
MAX	542	886	1,420	1,030	776	1,220	838	970	2,420	2,220	1,610	782
MIN	285	282	454	350	327	349	411	311	375	456	395	278
CFSM	2.55	3.56	4.97	3.27	3.11	3.45	4.09	2.87	5.12	5.78	4.21	2.76
IN.	2.94	3.97	5.73	3.77	3.24	3.98	4.56	3.31	5.71	6.67	4.85	3.08

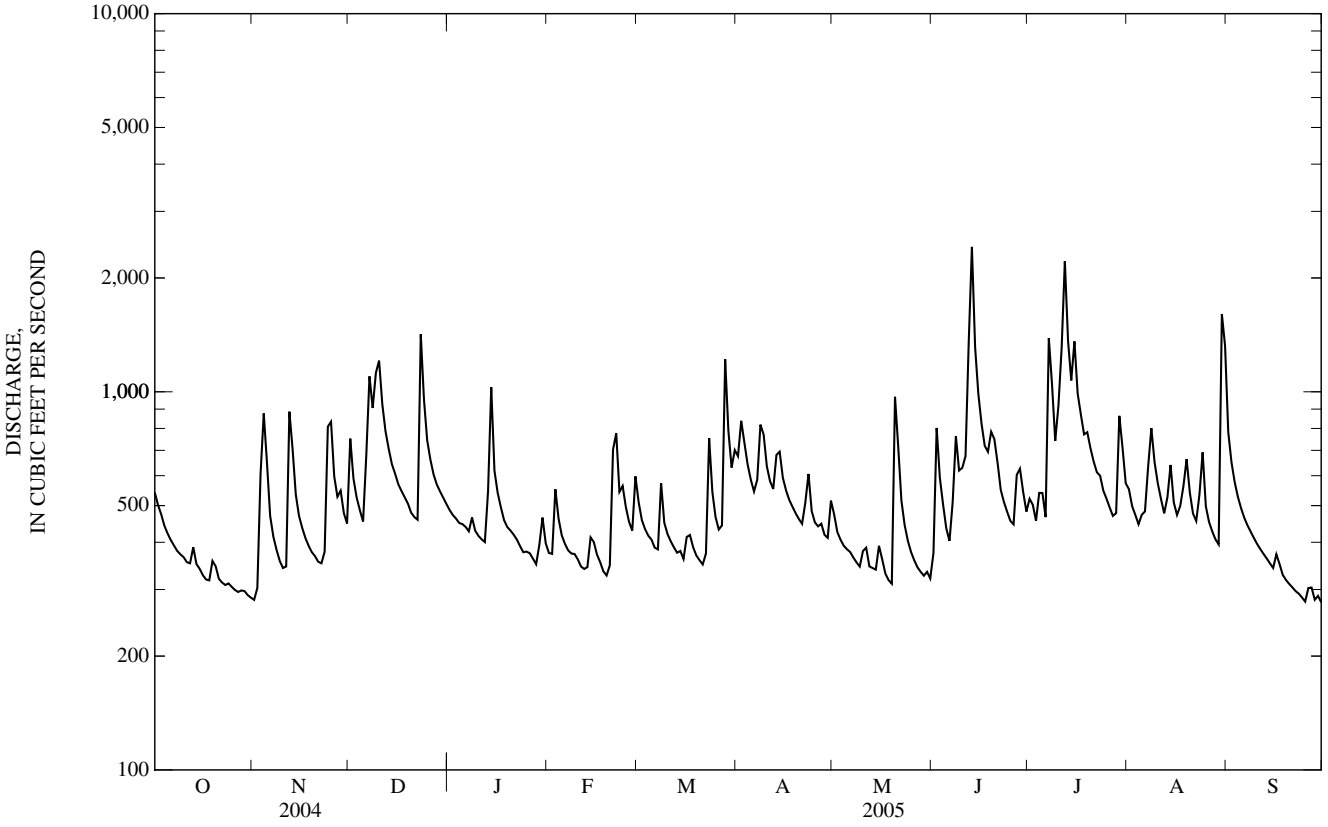
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005, BY WATER YEAR (WY)

MEAN	249	305	395	480	555	595	553	426	345	265	243	238
MAX	1,078	815	841	1,008	1,252	1,199	1,014	999	717	810	695	1,030
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1952)	(1964)	(1976)	(2005)	(2005)	(1974)	(2004)
MIN	70.5	101	153	120	222	244	172	157	110	94.8	78.3	80.2
(WY)	(1955)	(1955)	(2001)	(1981)	(1986)	(1988)	(1986)	(1986)	(1988)	(1986)	(1986)	(1954)

03500000 LITTLE TENNESSEE RIVER NEAR PRENTISS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005	
ANNUAL TOTAL	151,237		195,015			
ANNUAL MEAN	413		534		387	
HIGHEST ANNUAL MEAN					588	1949
LOWEST ANNUAL MEAN					173	1986
HIGHEST DAILY MEAN	7,830	Sep 17	2,420	Jun 13	7,830	Sep 17, 2004
LOWEST DAILY MEAN	137	Aug 19	278	Sep 30	52	Aug 30, 2000
ANNUAL SEVEN-DAY MINIMUM	144	Aug 14	289	Sep 24	58	Sep 14, 2000
MAXIMUM PEAK FLOW			2,650	Jun 13	12,200	Oct 4, 1964
MAXIMUM PEAK STAGE			6.85	Jun 13	17.30	Oct 4, 1964
INSTANTANEOUS LOW FLOW			270	Sep 30	52*	Sep 17, 1999
ANNUAL RUNOFF (CFSM)	2.95		3.82		2.76	
ANNUAL RUNOFF (INCHES)	40.19		51.82		37.54	
10 PERCENT EXCEEDS	654		794		695	
50 PERCENT EXCEEDS	324		465		309	
90 PERCENT EXCEEDS	178		334		129	

* See REMARKS.
e Estimated.



03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC

LOCATION.--Lat 35°09'32", long 83°23'39", Macon County, Hydrologic Unit 06010202, on downstream side of center pier of bridge on Secondary Road 1152, 0.1 mi downstream of unnamed creek, 1.8 mi south of Franklin, and 1.9 mi upstream from mouth.

DRAINAGE AREA.--57.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1958, 1960. June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,017.18 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record from rating curve extended above 3,300 ft^3/s on basis of contracted-opening measurement of peak flow. Minimum discharge for current water year also occurred Sept. 30. Minimum discharge for period of record also occurred Oct. 8, 1986.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1949 reached a stage of 15.6 ft, from studies by Tennessee Valley Authority; discharge, about 7,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	87	355	159	138	206	215	200	172	236	153	275
2	160	99	261	153	144	186	316	181	362	223	140	215
3	151	274	224	149	265	176	299	171	215	185	135	186
4	139	452	201	146	205	168	265	161	181	176	129	167
5	133	260	184	143	179	166	240	155	161	163	133	153
6	127	183	381	145	164	157	219	150	155	151	130	142
7	123	154	612	139	153	158	239	143	211	565	200	134
8	119	137	466	182	147	390	339	137	628	341	197	128
9	116	126	547	151	146	265	254	133	362	236	213	123
10	115	119	546	143	144	227	228	142	279	267	208	118
11	111	119	433	138	132	206	212	135	249	517	155	114
12	110	353	348	136	130	190	207	128	721	630	139	110
13	124	248	299	194	133	179	268	135	856	482	133	107
14	111	192	262	412	192	191	261	125	528	448	134	104
15	108	168	237	242	174	169	227	135	375	341	122	101
16	102	153	220	206	166	186	210	125	298	289	173	121
17	99	143	210	182	151	187	196	118	259	261	154	108
18	99	134	199	168	142	175	186	114	250	230	161	99
19	154	129	190	160	136	167	180	113	235	228	173	95
20	123	125	179	156	156	160	173	581	223	312	143	92
21	109	119	173	152	374	153	166	349	210	250	128	91
22	103	117	170	147	367	184	186	238	192	215	120	89
23	100	145	484	137	261	277	238	196	179	192	136	88
24	101	548	283	131	266	214	186	174	169	178	125	86
25	98	545	237	133	220	192	173	158	159	167	118	84
26	94	333	215	133	199	178	172	149	158	160	113	92
27	92	262	197	126	186	190	173	141	207	151	110	91
28	96	240	184	121	247	392	161	137	187	147	107	84
29	93	203	178	154	---	268	159	133	182	220	106	87
30	90	187	171	175	---	231	242	135	185	172	1,020	83
31	89	---	165	146	---	236	---	126	---	157	487	---
TOTAL	3,560	6,354	8,811	5,059	5,317	6,424	6,590	5,218	8,548	8,290	5,695	3,567
MEAN	115	212	284	163	190	207	220	168	285	267	184	119
MAX	171	548	612	412	374	392	339	581	856	630	1,020	275
MIN	89	87	165	121	130	153	159	113	155	147	106	83
CFSM	2.01	3.71	4.98	2.86	3.33	3.63	3.85	2.95	4.99	4.68	3.22	2.08
IN.	2.32	4.14	5.74	3.30	3.46	4.19	4.29	3.40	5.57	5.40	3.71	2.32

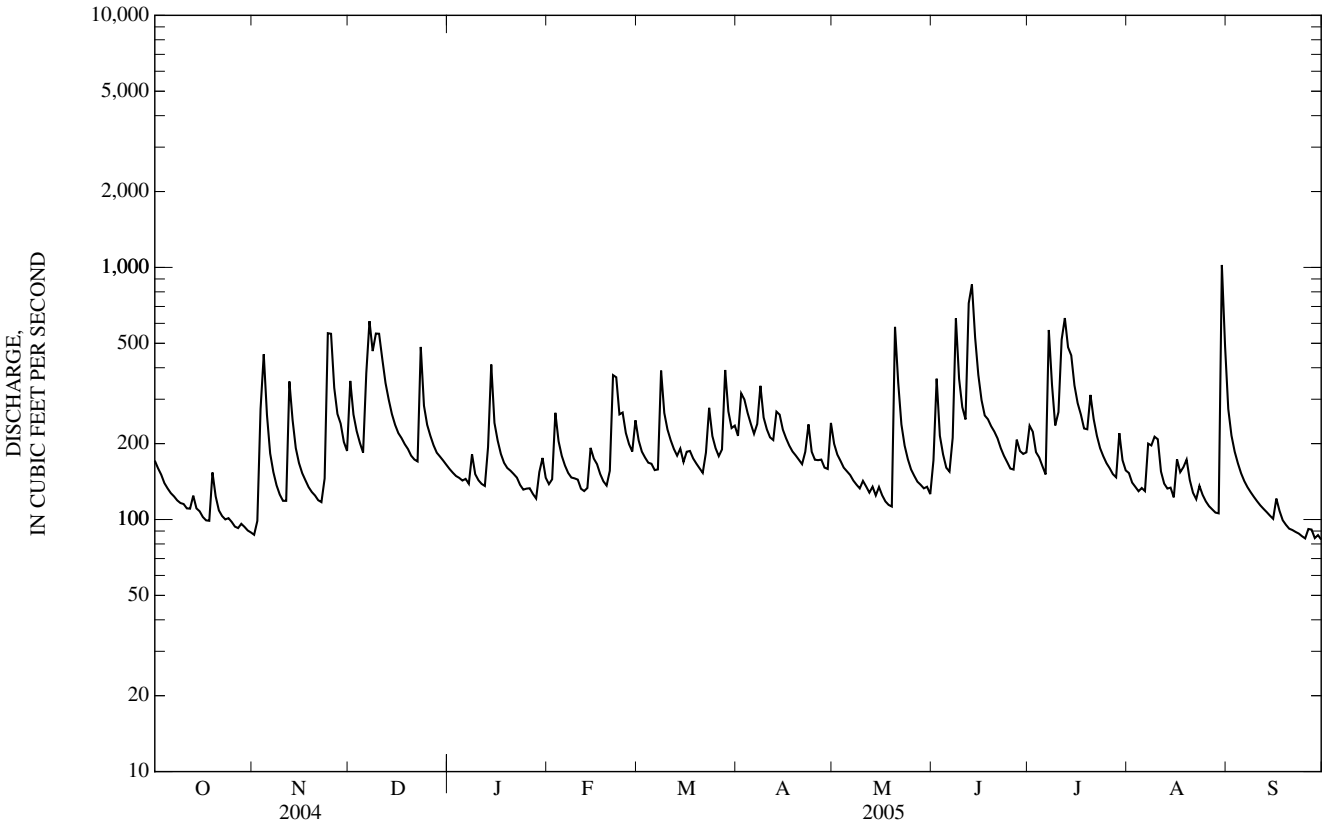
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2005, BY WATER YEAR (WY)

MEAN	83.2	110	150	188	219	237	200	157	122	92.3	83.3	80.7
MAX	295	266	317	336	460	440	375	339	285	267	185	393
(WY)	(1965)	(1993)	(1962)	(1996)	(1990)	(1980)	(1964)	(1976)	(2005)	(2005)	(1994)	(2004)
MIN	24.7	41.2	52.2	55.2	99.1	84.7	72.9	56.3	42.3	32.7	28.7	25.6
(WY)	(2001)	(2002)	(1966)	(1981)	(2002)	(1988)	(1986)	(2001)	(1988)	(2000)	(2000)	(1999)

03500240 CARTOOGECHAYE CREEK NEAR FRANKLIN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1961 - 2005	
ANNUAL TOTAL	59,660		73,433			
ANNUAL MEAN	163		201		143	
HIGHEST ANNUAL MEAN					204	1990
LOWEST ANNUAL MEAN					69.9	1986
HIGHEST DAILY MEAN	3,340	Sep 17	1,020	Aug 30	3,340	Sep 17, 2004
LOWEST DAILY MEAN	52	Sep 6	83	Sep 30	18	Oct 7, 1986
ANNUAL SEVEN-DAY MINIMUM	59	Aug 14	87	Sep 24	19	Sep 14, 2000
MAXIMUM PEAK FLOW			1,500	Jun 12	6,440*	Sep 17, 2004
MAXIMUM PEAK STAGE			8.02	Jun 12	14.12	Sep 17, 2004
INSTANTANEOUS LOW FLOW			79*	Sep 26	16*	Oct 7, 1986
ANNUAL RUNOFF (CFSM)	2.85		3.52		2.50	
ANNUAL RUNOFF (INCHES)	38.87		47.84		34.04	
10 PERCENT EXCEEDS	260		340		260	
50 PERCENT EXCEEDS	120		170		108	
90 PERCENT EXCEEDS	72		110		47	

* See REMARKS.



0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC

LOCATION.--Lat 35°04'34", long 83°14'56", Macon County, Hydrologic Unit 06010202, at bridge on Secondary Road 1620, downstream from Long Branch and approximately 3.4 mi northwest of Highlands.

DRAINAGE AREA.--18.8 mi^2.

PERIOD OF RECORD.--July 2001 to current year.

REVISED RECORDS.--WDR NC-04-01: 2001-2003(M).

GAGE.--Water-stage recorder. Elevation of gage is 3,230 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge for period of record, from rating curve extended above 2,300 ft^3/s, on basis of peak flow over dam at Lake Sequoyah. Minimum discharge for period of record also occurred Sept. 12, 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	129	53	196	82	62	81	113	73	65	156	122	151
2	118	58	118	79	62	70	219	64	239	133	96	129
3	109	120	105	77	98	67	144	61	127	173	87	116
4	103	332	97	74	76	70	129	58	96	179	120	106
5	97	127	91	72	67	68	113	56	83	137	125	98
6	95	95	137	73	64	58	100	55	81	119	103	92
7	97	85	199	69	62	61	105	52	71	527	144	87
8	79	77	141	85	61	95	166	49	95	231	235	82
9	80	72	262	71	60	72	118	47	182	208	161	79
10	81	68	196	66	58	61	102	46	155	412	132	76
11	78	73	150	64	55	56	95	46	151	924	e125	73
12	82	260	130	63	55	57	92	44	992	744	e113	71
13	95	125	118	137	56	56	121	45	881	358	151	68
14	80	99	109	243	73	60	117	43	333	282	170	66
15	73	90	101	104	66	62	94	57	235	530	e108	63
16	70	84	96	91	61	64	87	47	189	272	e98	74
17	67	79	91	82	57	68	82	42	164	211	e105	66
18	67	76	87	77	54	56	78	39	186	181	175	59
19	81	72	84	74	53	50	75	38	163	192	165	56
20	77	71	79	72	62	52	71	180	145	192	116	53
21	70	68	77	70	127	51	69	91	128	153	104	52
22	65	66	79	68	103	63	81	69	117	143	97	52
23	60	71	499	65	80	162	97	61	107	126	123	49
24	68	330	164	64	87	88	74	55	99	115	111	47
25	64	191	130	61	77	75	69	50	92	107	94	47
26	65	123	115	61	71	68	68	48	87	99	88	71
27	62	116	105	59	68	82	70	45	199	92	83	56
28	58	129	99	56	97	299	65	43	281	93	79	50
29	54	102	94	69	---	129	62	42	193	177	79	50
30	55	97	90	82	---	104	84	45	176	147	522	48
31	53	---	86	70	---	125	---	42	---	115	215	---
TOTAL	2,432	3,409	4,125	2,480	1,972	2,530	2,960	1,733	6,112	7,528	4,246	2,187
MEAN	78.5	114	133	80.0	70.4	81.6	98.7	55.9	204	243	137	72.9
MAX	129	332	499	243	127	299	219	180	992	924	522	151
MIN	53	53	77	56	53	50	62	38	65	92	79	47
CFSM	4.18	6.06	7.09	4.26	3.75	4.35	5.26	2.98	10.9	12.9	7.30	3.89
IN.	4.82	6.76	8.18	4.92	3.91	5.02	5.87	3.44	12.12	14.93	8.42	4.34

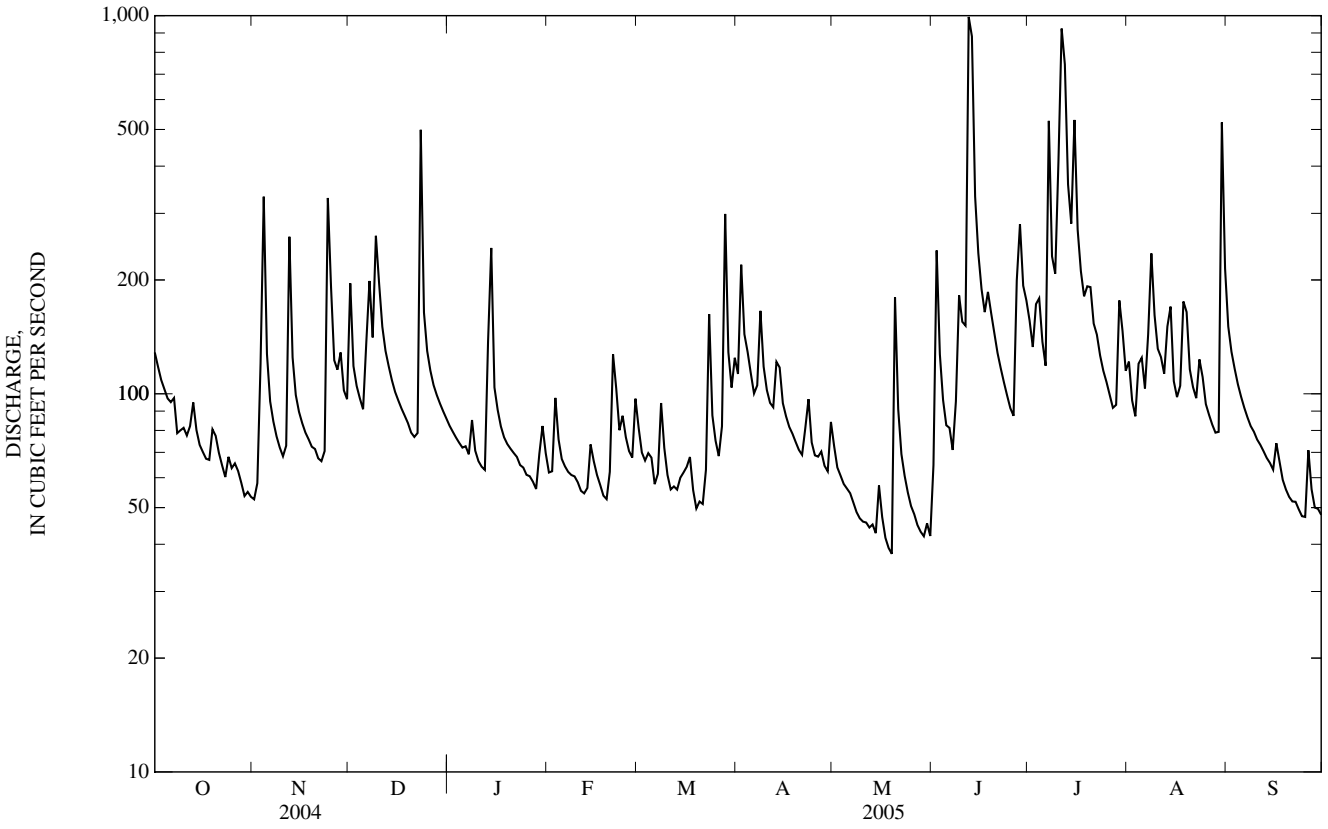
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	61.6	94.4	104	73.8	83.6	77.3	81.2	76.2	93.0	93.7	67.4	138
MAX	78.5	133	133	80.0	105	97.0	99.0	131	204	243	137	366
(WY)	(2005)	(2004)	(2005)	(2005)	(2004)	(2003)	(2003)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	45.9	40.1	56.6	62.7	63.4	46.5	51.8	54.3	30.5	22.2	15.3	48.9
(WY)	(2004)	(2002)	(2002)	(2004)	(2002)	(2004)	(2004)	(2004)	(2002)	(2002)	(2002)	(2001)

0350056050 CULLASAJA RIVER AT SR 1620 NEAR HIGHLANDS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005	
ANNUAL TOTAL	36,043		41,714			
ANNUAL MEAN	98.5		114		90.3	
HIGHEST ANNUAL MEAN					114	2005
LOWEST ANNUAL MEAN					57.3	2002
HIGHEST DAILY MEAN	2,840	Sep 17	992	Jun 12	2,840	Sep 17, 2004
LOWEST DAILY MEAN	22	Jul 24	38	May 19	7.9	Aug 22, 2002
ANNUAL SEVEN-DAY MINIMUM	25	Jul 20	44	May 13	8.5	Aug 9, 2002
MAXIMUM PEAK FLOW			2,290	Jun 12	5,300*	Sep 17, 2004
MAXIMUM PEAK STAGE			11.13	Jun 12	16.15	Sep 17, 2004
INSTANTANEOUS LOW FLOW			35	May 19	6.7*	Aug 22, 2002
ANNUAL RUNOFF (CFSM)	5.25		6.09		4.81	
ANNUAL RUNOFF (INCHES)	71.47		82.72		65.37	
10 PERCENT EXCEEDS	152		190		147	
50 PERCENT EXCEEDS	61		83		68	
90 PERCENT EXCEEDS	34		55		32	

* See REMARKS.
e Estimated.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC

LOCATION.--Lat 35°20'11", long 83°31'37", Swain County, Hydrologic Unit 06010202, on left bank on Secondary Road 1113, 0.8 mi downstream of DeHart Creek, 0.8 mi north of Needmore, 2.4 mi downstream of Brush Creek, 6.3 mi downstream of Tellico Creek, and at mile 92.9.

DRAINAGE AREA.--436 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1943 to December 1981, October 1983 to current year. Monthly discharge only for some periods, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is 1,761.19 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by Porters Bend power plant at Lake Emory, 20 mi upstream. Minimum discharge for period of record also occurred Nov. 8, 1954. Minimum discharge for current water year also occurred Sept. 29, 30.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of October 1898 and Aug. 30, 1940, reached stages of about 13 and 11.5 ft, respectively, from flood profiles by Tennessee Valley Authority.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,320	640	1,940	1,130	999	1,460	1,740	1,340	927	1,510	1,450	1,920
2	1,210	647	1,650	1,090	976	1,280	2,160	1,120	1,950	1,560	1,240	1,440
3	1,140	1,270	1,410	1,070	1,450	1,190	2,160	1,070	1,510	1,240	1,090	1,230
4	1,050	2,360	1,280	1,050	1,350	1,140	1,950	1,020	1,310	1,400	1,060	1,090
5	991	1,960	1,180	1,040	1,170	1,130	1,730	989	1,110	1,350	1,060	995
6	946	1,210	1,590	1,030	1,090	1,070	1,550	982	1,060	1,140	1,160	928
7	926	1,020	3,170	1,020	1,030	1,040	1,520	959	1,260	3,740	1,160	893
8	888	936	2,650	1,110	1,010	1,750	2,110	937	2,060	3,570	1,980	861
9	847	846	2,650	1,070	1,000	1,490	1,870	923	2,060	2,080	1,610	830
10	839	815	3,610	1,000	997	1,300	1,610	961	1,620	2,450	1,560	794
11	817	789	2,600	980	940	1,200	1,460	1,060	1,750	3,060	1,210	766
12	795	2,050	2,120	963	914	1,150	1,390	909	2,990	7,240	1,060	745
13	900	2,030	1,870	984	917	1,090	1,640	959	7,730	4,480	1,130	714
14	819	1,330	1,660	2,990	1,100	1,130	2,040	902	3,920	3,420	1,470	694
15	783	1,140	1,510	1,730	1,230	1,050	1,640	970	2,270	3,630	1,180	678
16	750	1,050	1,430	1,430	1,070	1,120	1,480	975	1,750	2,710	1,020	736
17	724	983	1,370	1,270	1,020	1,230	1,380	874	1,510	2,280	1,120	746
18	722	938	1,290	1,160	969	1,140	1,320	835	1,340	1,940	1,250	661
19	866	901	1,250	1,110	933	1,050	1,260	839	1,640	1,810	1,720	636
20	874	872	1,170	1,080	997	1,020	1,210	2,630	1,340	2,100	1,220	615
21	763	844	1,120	1,060	1,980	995	1,140	2,470	1,320	1,810	1,030	599
22	721	832	1,100	1,030	2,680	1,010	1,150	1,540	1,260	1,580	940	587
23	706	946	2,930	991	1,780	1,970	1,600	1,280	1,150	1,430	985	575
24	713	2,470	2,530	931	1,690	1,650	1,300	1,130	1,060	1,290	1,280	561
25	702	3,150	1,770	968	1,490	1,340	1,180	1,040	986	1,210	1,010	542
26	684	1,870	1,540	979	1,330	1,230	1,130	978	958	1,130	909	546
27	672	1,470	1,400	953	1,240	1,170	1,170	947	1,520	1,060	864	609
28	670	1,470	1,300	908	1,560	2,960	1,090	925	2,050	1,060	824	543
29	694	1,260	1,250	961	---	2,270	1,070	901	1,680	1,650	811	531
30	663	1,160	1,210	1,270	---	1,740	1,230	906	1,510	2,070	4,210	532
31	652	---	1,170	1,080	---	1,590	---	890	---	1,390	4,230	---
TOTAL	25,847	39,259	54,720	35,438	34,912	41,955	45,280	34,261	54,601	68,390	42,843	23,597
MEAN	834	1,309	1,765	1,143	1,247	1,353	1,509	1,105	1,820	2,206	1,382	787
MAX	1,320	3,150	3,610	2,990	2,680	2,960	2,160	2,630	7,730	7,240	4,230	1,920
MIN	652	640	1,100	908	914	995	1,070	835	927	1,060	811	531
CFSM	1.91	3.00	4.05	2.62	2.86	3.10	3.46	2.53	4.17	5.06	3.17	1.80
IN.	2.21	3.35	4.67	3.02	2.98	3.58	3.86	2.92	4.66	5.84	3.66	2.01

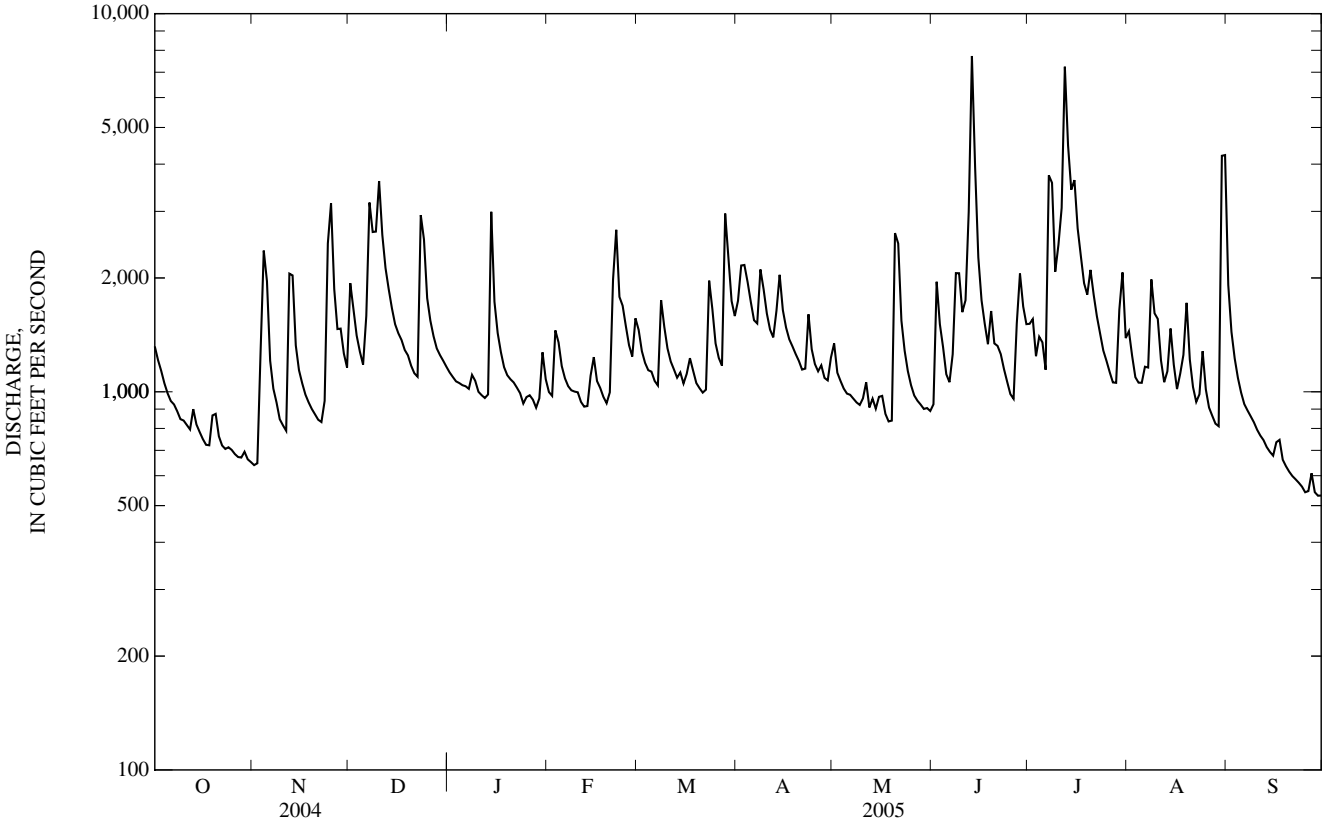
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1944 - 2005,@ BY WATER YEAR (WY)

MEAN	642	809	1,045	1,337	1,555	1,699	1,508	1,176	932	724	646	621
MAX	2,557	2,169	2,231	2,570	3,718	3,372	2,746	2,573	2,061	2,206	1,670	2,817
(WY)	(1965)	(1980)	(1962)	(1946)	(1990)	(1990)	(1964)	(1976)	(1949)	(2005)	(1967)	(2004)
MIN	192	282	368	349	660	596	553	458	351	238	213	201
(WY)	(1955)	(1955)	(1966)	(1981)	(1986)	(1988)	(1986)	(2001)	(1988)	(1986)	(1986)	(1999)

03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1944 - 2005[@]	
ANNUAL TOTAL	398,067		501,103			
ANNUAL MEAN	1,088		1,373		1,058	
HIGHEST ANNUAL MEAN					1,565	1973
LOWEST ANNUAL MEAN					495	1986
HIGHEST DAILY MEAN	16,400	Sep 17	7,730	Jun 13	17,200	Oct 5, 1964
LOWEST DAILY MEAN	380	Aug 20	531	Sep 29	71	Nov 7, 1954
ANNUAL SEVEN-DAY MINIMUM	415	Aug 14	552	Sep 24	142	Oct 2, 1986
MAXIMUM PEAK FLOW			9,860	Jun 13	22,100	Oct 5, 1964
MAXIMUM PEAK STAGE			7.78	Jun 13	12.87	Oct 5, 1964
INSTANTANEOUS LOW FLOW			523*	Sep 26	52*	Nov 7, 1954
ANNUAL RUNOFF (CFSM)	2.49		3.15		2.43	
ANNUAL RUNOFF (INCHES)	33.96		42.75		32.97	
10 PERCENT EXCEEDS	1,680		2,100		1,910	
50 PERCENT EXCEEDS	840		1,140		820	
90 PERCENT EXCEEDS	465		776		364	

[@] See PERIOD OF RECORD.
* See REMARKS.



03503000 LITTLE TENNESSEE RIVER AT NEEDMORE, NC—Continued

PRECIPITATION RECORDS

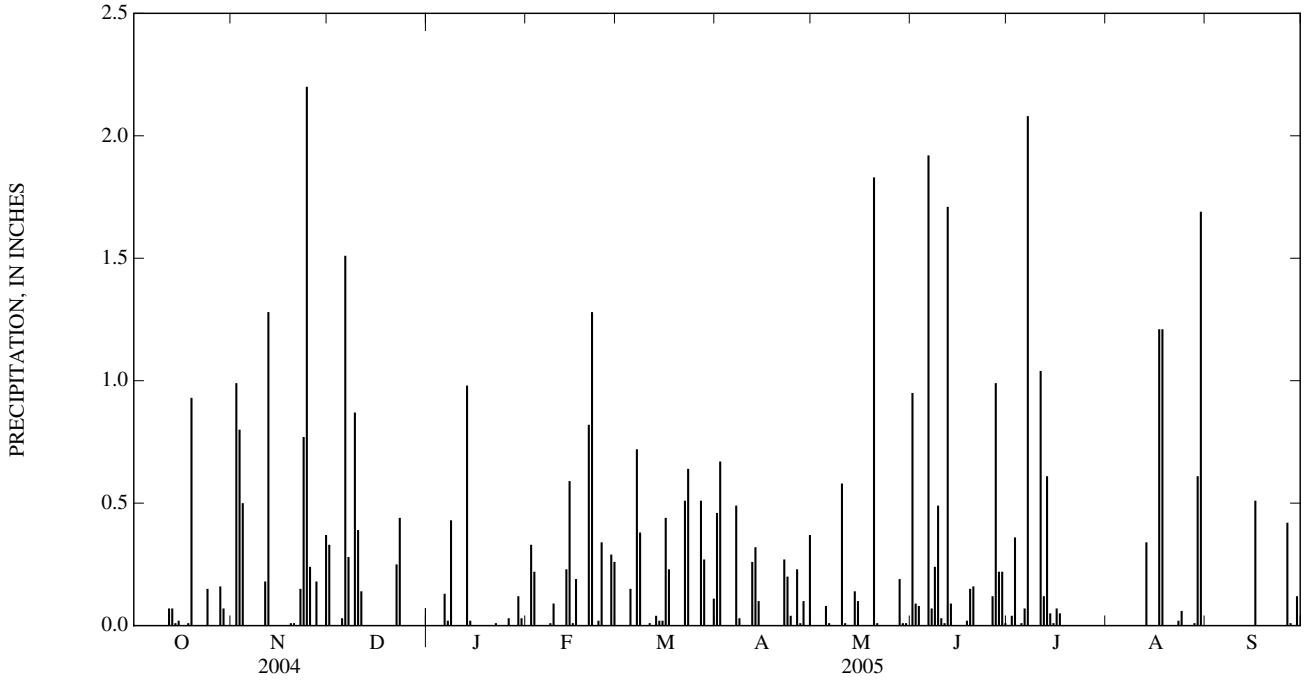
PERIOD OF RECORD.--October 1998 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.33	0.00	0.00	0.00	0.46	0.00	0.95	0.00	---	0.00
2	0.00	0.99	0.00	0.00	0.33	0.00	0.67	0.00	0.09	0.04	---	0.00
3	0.00	0.80	0.00	0.00	0.22	0.00	0.00	0.00	0.08	0.36	---	0.00
4	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00
5	0.00	0.00	0.03	0.00	0.00	0.15	0.00	0.08	0.00	0.01	---	0.00
6	0.00	0.00	1.51	0.13	0.00	0.00	0.00	0.01	1.92	0.07	---	0.00
7	0.00	0.00	0.28	0.02	0.00	0.72	0.49	0.00	0.07	2.08	---	0.00
8	0.00	0.00	0.00	0.43	0.01	0.38	0.03	0.00	0.24	0.00	---	0.00
9	0.00	0.00	0.87	0.00	0.09	0.00	0.00	0.00	0.49	0.00	0.00	0.00
10	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.58	0.03	0.00	0.00	0.00
11	0.00	0.18	0.14	0.00	0.00	0.01	0.00	0.01	0.01	1.04	0.00	0.00
12	0.07	1.28	0.00	0.00	0.00	0.00	0.26	0.00	1.71	0.12	0.00	0.00
13	0.07	0.00	0.00	0.98	0.23	0.04	0.32	0.00	0.09	0.61	0.34	0.00
14	0.01	0.00	0.00	0.02	0.59	0.02	0.10	0.14	0.00	0.05	0.00	0.00
15	0.02	0.00	0.00	0.00	0.01	0.02	0.00	0.10	0.00	0.01	0.00	0.00
16	0.00	0.00	0.00	0.00	0.19	0.44	0.00	0.00	0.00	0.07	0.00	0.51
17	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.05	1.21	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	---	1.21	0.00
19	0.93	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.15	---	0.00	0.00
20	0.00	0.01	0.00	0.00	0.82	0.00	0.00	1.83	0.16	---	0.00	0.00
21	0.00	0.00	0.00	0.00	1.28	0.00	0.00	0.01	0.00	---	0.00	0.00
22	0.00	0.15	0.25	0.01	0.00	0.51	0.27	0.00	0.00	---	0.00	0.00
23	0.00	0.77	0.44	0.00	0.02	0.64	0.20	0.00	0.00	---	0.02	0.00
24	0.15	2.20	0.00	0.00	0.34	0.00	0.04	0.00	0.00	---	0.06	0.00
25	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00
26	0.00	0.00	0.00	0.03	0.00	0.00	0.23	0.00	0.12	---	0.00	0.42
27	0.00	0.18	0.00	0.00	0.29	0.51	0.01	0.00	0.99	---	0.00	0.01
28	0.16	0.00	0.00	0.00	0.26	0.27	0.10	0.19	0.22	---	0.01	0.00
29	0.07	0.00	0.00	0.12	---	0.00	0.00	0.01	0.22	---	0.61	0.12
30	0.00	0.37	0.00	0.03	---	0.00	0.37	0.01	0.01	---	1.69	0.00
31	0.00	---	0.00	0.00	---	0.11	---	0.00	---	---	0.00	---
TOTAL	1.49	7.68	4.24	1.77	4.68	4.05	3.55	2.97	7.57	---	---	1.06



03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC

LOCATION.--Lat 35°07'39", long 83°37'07", Macon County, Hydrologic Unit 06010202, on right bank on Forest Service Road 437 in Nantahala National Forest, 300 ft upstream from Roaring Fork, 0.2 mi downstream of Buck Creek, 4 mi northwest of town of Rainbow Springs, and at mile 34.3.

DRAINAGE AREA.--51.9 mi^2.

PERIOD OF RECORD.--October 1940 to current year.

REVISED RECORDS.--WSP 973: 1941(M).

GAGE.--Water-stage recorder. Datum of gage is 3,072.97 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Occasional slight diurnal fluctuation at low flow caused by small ponds on tributaries upstream from station. Maximum discharge for period of record from rating curve extended above 3,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record also occurred Oct. 29, Nov. 1, 2, 1998.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	133	480	237	192	292	329	268	215	312	248	453
2	275	172	366	229	208	269	488	248	341	287	223	369
3	260	388	339	220	305	254	420	236	233	242	210	322
4	245	655	318	214	242	246	398	227	210	239	201	290
5	234	388	304	207	223	244	369	221	196	235	209	265
6	224	302	674	218	212	232	345	216	198	219	198	244
7	216	263	772	202	204	259	378	207	209	556	298	227
8	209	237	596	255	199	529	421	201	437	380	270	214
9	203	219	713	207	203	357	363	195	357	324	236	201
10	198	207	662	198	196	323	341	192	317	359	227	190
11	191	210	584	192	183	305	322	186	296	747	209	181
12	190	506	502	187	180	286	322	186	982	898	223	173
13	216	341	449	354	193	271	398	190	987	712	246	165
14	187	296	405	513	270	280	350	180	646	611	230	157
15	181	273	373	335	229	253	319	217	506	531	249	151
16	171	255	348	300	229	282	306	184	423	467	232	173
17	165	241	329	274	212	271	292	172	373	418	224	151
18	163	230	312	254	201	249	281	167	361	374	231	139
19	234	220	298	244	194	239	269	163	331	371	241	134
20	186	215	278	237	225	232	258	634	340	361	206	129
21	168	205	268	231	525	224	249	343	309	336	193	125
22	161	201	261	226	449	254	280	273	283	312	223	122
23	157	259	663	212	349	335	297	241	262	290	265	119
24	163	766	395	226	367	270	254	220	246	272	235	115
25	153	605	346	202	315	253	241	206	233	257	213	110
26	147	441	319	200	294	241	249	195	227	243	200	166
27	145	390	297	192	279	255	251	186	231	232	189	134
28	143	371	281	183	336	451	232	181	247	236	180	114
29	146	329	269	229	---	340	226	176	266	371	180	115
30	139	314	258	229	---	311	315	177	234	265	1,360	108
31	137	---	247	201	---	357	---	165	---	264	675	---
TOTAL	5,899	9,632	12,706	7,408	7,214	8,964	9,563	6,853	10,496	11,721	8,524	5,556
MEAN	190	321	410	239	258	289	319	221	350	378	275	185
MAX	292	766	772	513	525	529	488	634	987	898	1,360	453
MIN	137	133	247	183	180	224	226	163	196	219	180	108
CFSM	3.67	6.19	7.90	4.60	4.96	5.57	6.14	4.26	6.74	7.29	5.30	3.57
IN.	4.23	6.90	9.11	5.31	5.17	6.43	6.85	4.91	7.52	8.40	6.11	3.98

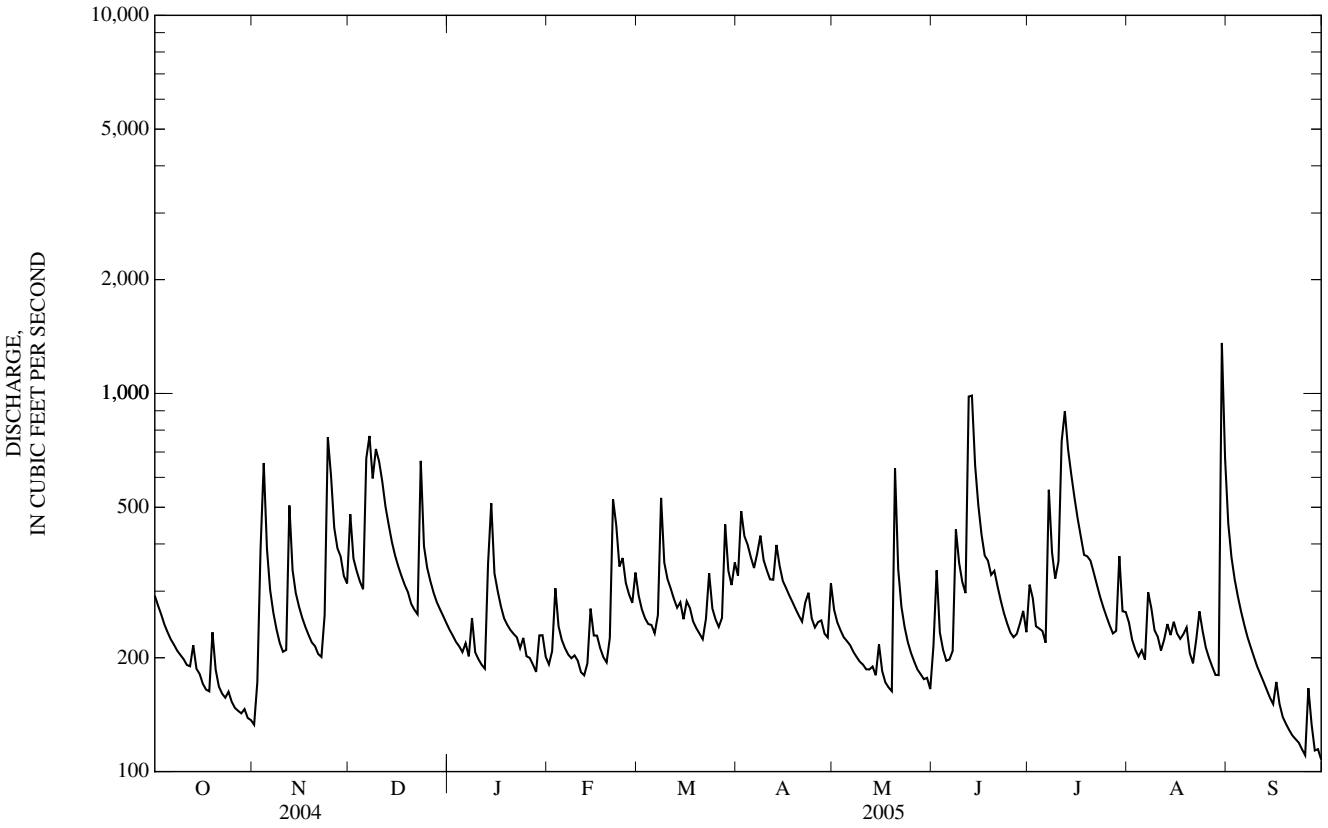
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2005, BY WATER YEAR (WY)

MEAN	117	157	224	277	320	318	278	217	175	144	124	117
MAX	415	376	474	568	657	572	493	491	485	378	327	594
(WY)	(1965)	(1978)	(1993)	(1974)	(1957)	(1979)	(1979)	(1976)	(1989)	(2005)	(1994)	(2004)
MIN	35.6	56.6	77.2	84.4	115	138	118	96.8	67.1	59.0	49.5	41.8
(WY)	(2001)	(1955)	(1959)	(1981)	(1941)	(1988)	(1986)	(1986)	(1986)	(1986)	(1986)	(1986)

03504000 NANTAHALA RIVER NEAR RAINBOW SPRINGS, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1941 - 2005	
ANNUAL TOTAL	89,882		104,536			
ANNUAL MEAN	246		286		205	
HIGHEST ANNUAL MEAN					286	2005
LOWEST ANNUAL MEAN					109	1986
HIGHEST DAILY MEAN	3,620	Sep 17	1,360	Aug 30	3,620	Sep 17, 2004
LOWEST DAILY MEAN	76	Sep 6	108	Sep 30	29	Nov 1, 1998
ANNUAL SEVEN-DAY MINIMUM	85	Aug 31	122	Sep 19	30	Oct 26, 1998
MAXIMUM PEAK FLOW			2,130	Aug 30	6,300*	Jun 16, 1949
MAXIMUM PEAK STAGE			4.84	Aug 30	9.70	Jun 16, 1949
INSTANTANEOUS LOW FLOW			103	Sep 30	29*	Oct 28, 1998
ANNUAL RUNOFF (CFSM)	4.73		5.52		3.95	
ANNUAL RUNOFF (INCHES)	64.42		74.93		53.67	
10 PERCENT EXCEEDS	387		439		371	
50 PERCENT EXCEEDS	189		246		164	
90 PERCENT EXCEEDS	113		172		68	

* See REMARKS.



03505550 NANTAHALA RIVER NEAR HEWITT, NC

LOCATION.--Lat 35°18'18", long 83°39'08", Swain County, Hydrologic Unit 06010202, on left bank, 1,655 ft downstream from bridge on US Highway 74, 0.2 mi southwest of Hewitt, and 2.5 mi northwest of Beachertown.

DRAINAGE AREA.--145 mi^2.

PERIOD OF RECORD.--December 2004 to September 2005.

GAGE.--Water-stage recorder. Elevation of gage is 1,910 ft above NVGD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for current water year affected by regulation. Minimum discharge for current water year also occurred Sept. 30.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	e400	573	253	631	362	557	405	450	699	831
2	---	---	335	729	255	471	437	519	606	421	440	825
3	---	---	295	850	287	254	450	467	547	576	432	818
4	---	---	265	583	218	251	415	495	558	582	433	812
5	---	---	235	352	344	429	380	505	562	573	441	813
6	---	---	419	e780	262	420	552	482	582	812	511	815
7	---	---	775	e800	393	418	848	477	607	984	614	815
8	---	---	1,100	831	242	560	902	471	568	891	614	712
9	---	---	1,230	811	199	504	868	529	645	851	826	570
10	---	---	1,250	808	314	460	799	530	713	828	821	527
11	---	---	1,200	804	256	519	743	424	704	865	739	521
12	---	---	1,120	814	182	415	742	415	815	931	438	376
13	---	---	1,070	832	157	466	756	434	972	976	450	447
14	---	---	1,030	904	202	284	745	107	892	971	534	443
15	---	---	960	850	228	265	730	111	850	912	550	444
16	---	---	978	839	230	593	699	100	836	876	543	468
17	---	---	965	768	247	667	441	94	824	865	495	519
18	---	---	951	777	256	677	490	323	832	849	507	457
19	---	---	942	702	255	731	491	788	846	763	539	492
20	---	---	906	547	268	424	503	1,010	847	854	593	488
21	---	---	884	551	460	303	471	734	832	852	612	439
22	---	---	872	540	443	268	496	944	673	840	412	431
23	---	---	936	534	354	646	690	876	815	834	336	452
24	---	---	897	477	696	884	822	826	701	828	528	298
25	---	---	886	228	892	863	764	817	696	823	554	285
26	---	---	876	238	875	796	519	795	581	820	763	328
27	---	---	866	268	864	787	528	667	351	542	812	345
28	---	---	853	376	874	795	535	563	344	450	741	344
29	---	---	842	422	---	746	511	570	553	518	793	337
30	---	---	853	420	---	394	544	561	780	449	643	345
31	---	---	839	280	---	418	---	457	---	565	612	---
TOTAL	---	---	26,030	19,288	10,506	16,339	18,233	16,648	20,537	23,351	18,025	15,797
MEAN	---	---	840	622	375	527	608	537	685	753	581	527
MAX	---	---	1,250	904	892	884	902	1,010	972	984	826	831
MIN	---	---	235	228	157	251	362	94	344	421	336	285

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2005, BY WATER YEAR (WY)

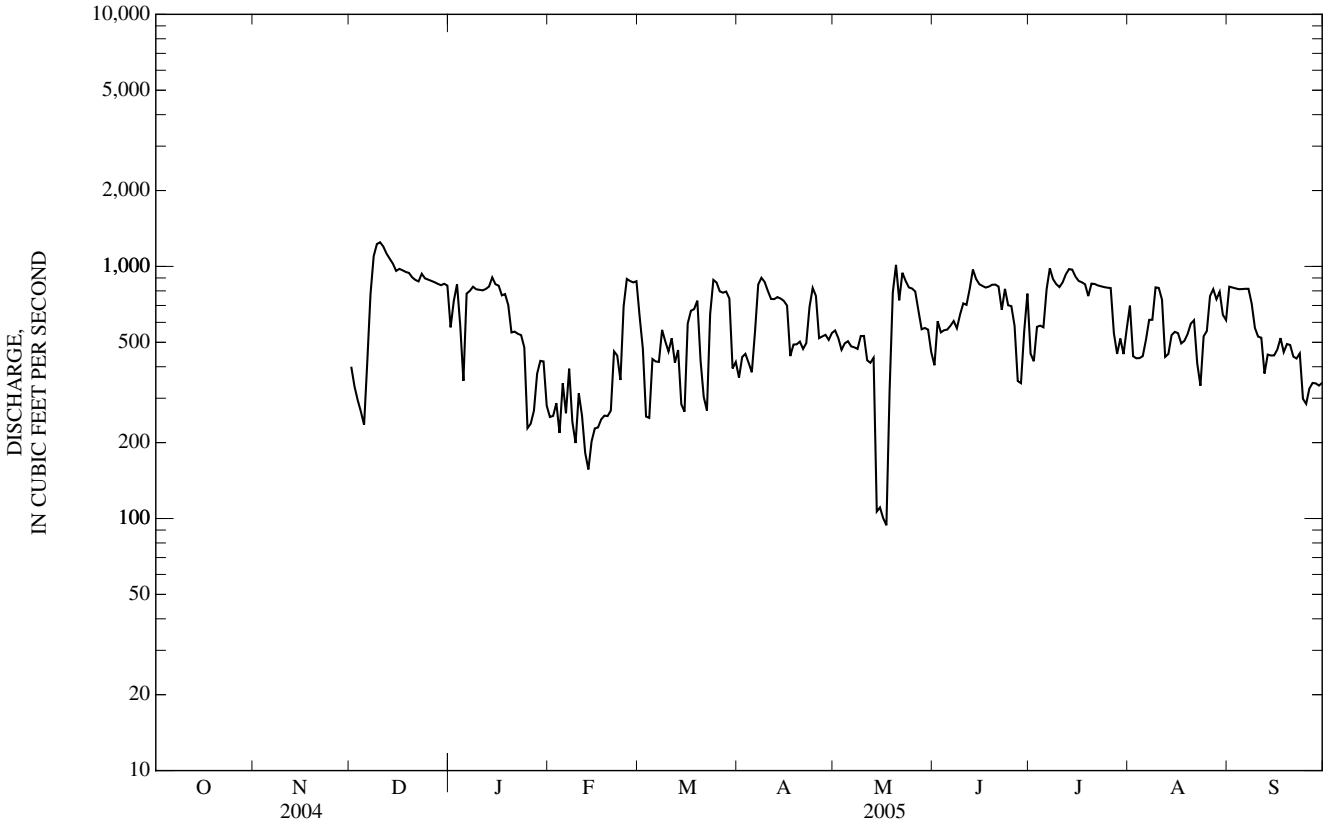
MEAN	---	---	840	622	375	527	608	537	685	753	581	527
MAX	---	---	840	622	375	527	608	537	685	753	581	527
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)
MIN	---	---	840	622	375	527	608	537	685	753	581	527
(WY)	---	---	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS FOR 2005 WATER YEAR

MAXIMUM PEAK FLOW	2,010	May 20
MAXIMUM PEAK STAGE	4.33	May 20
INSTANTANEOUS LOW FLOW	56*	Sep 29

* See REMARKS.
e Estimated.

03505550 NANTAHALA RIVER NEAR HEWITT, NC—Continued



03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC

LOCATION.--Lat 35°17'16", long 83°08'38", Jackson County, Hydrologic Unit 06010203, on left bank, 10 ft downstream from bridge on Secondary Road 1172, 3.0 mi southeast of Cullowhee and at river mile 47.3.

DRAINAGE AREA.--147 mi^2.

PERIOD OF RECORD.--September 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 2,120 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	625	528	835	660	259	496	605	459	296	788	674	1,270
2	622	490	841	837	243	358	291	363	803	786	621	1,110
3	638	503	705	766	281	222	350	351	665	800	880	871
4	686	735	584	841	260	221	385	304	468	809	856	809
5	247	683	335	844	293	190	357	274	605	873	839	834
6	524	847	508	836	371	193	677	285	242	1,380	327	817
7	526	813	535	840	344	192	749	233	601	1,830	675	787
8	519	775	719	843	105	535	560	290	709	1,670	727	711
9	519	723	946	758	104	576	465	266	843	1,800	819	612
10	398	587	946	802	104	352	470	292	887	1,590	506	686
11	465	131	921	684	100	458	435	254	899	1,380	732	619
12	483	492	851	316	100	347	679	307	2,950	2,420	679	473
13	686	840	794	412	102	489	471	515	5,050	2,040	706	397
14	413	823	812	629	117	343	814	568	2,220	1,830	626	395
15	220	816	738	509	154	310	472	609	1,370	1,760	621	285
16	502	643	677	515	331	425	500	610	963	1,360	541	264
17	556	527	838	592	199	555	654	496	979	940	684	299
18	770	562	835	583	281	545	320	448	924	992	892	220
19	633	592	821	591	293	382	223	434	886	897	856	213
20	577	437	839	572	372	385	184	503	808	1,080	760	323
21	619	434	845	506	690	337	281	701	914	1,740	688	659
22	553	425	755	328	922	299	497	704	808	1,780	526	661
23	324	558	898	326	884	551	420	349	743	1,070	463	575
24	733	740	854	340	879	768	413	417	774	1,010	580	177
25	472	902	854	379	530	614	515	315	773	865	655	87
26	380	886	863	322	518	409	583	292	718	900	638	296
27	334	813	872	277	510	433	581	241	564	901	890	263
28	301	812	870	245	610	475	505	250	921	718	889	268
29	571	824	870	299	---	786	314	247	824	943	894	248
30	334	747	864	240	---	861	489	362	826	911	1,240	264
31	775	---	858	181	---	854	---	254	---	866	1,190	---
TOTAL	16,005	19,688	24,483	16,873	9,956	13,961	14,259	11,993	31,033	38,729	22,674	15,493
MEAN	516	656	790	544	356	450	475	387	1,034	1,249	731	516
MAX	775	902	946	844	922	861	814	704	5,050	2,420	1,240	1,270
MIN	220	131	335	181	100	190	184	233	242	718	327	87

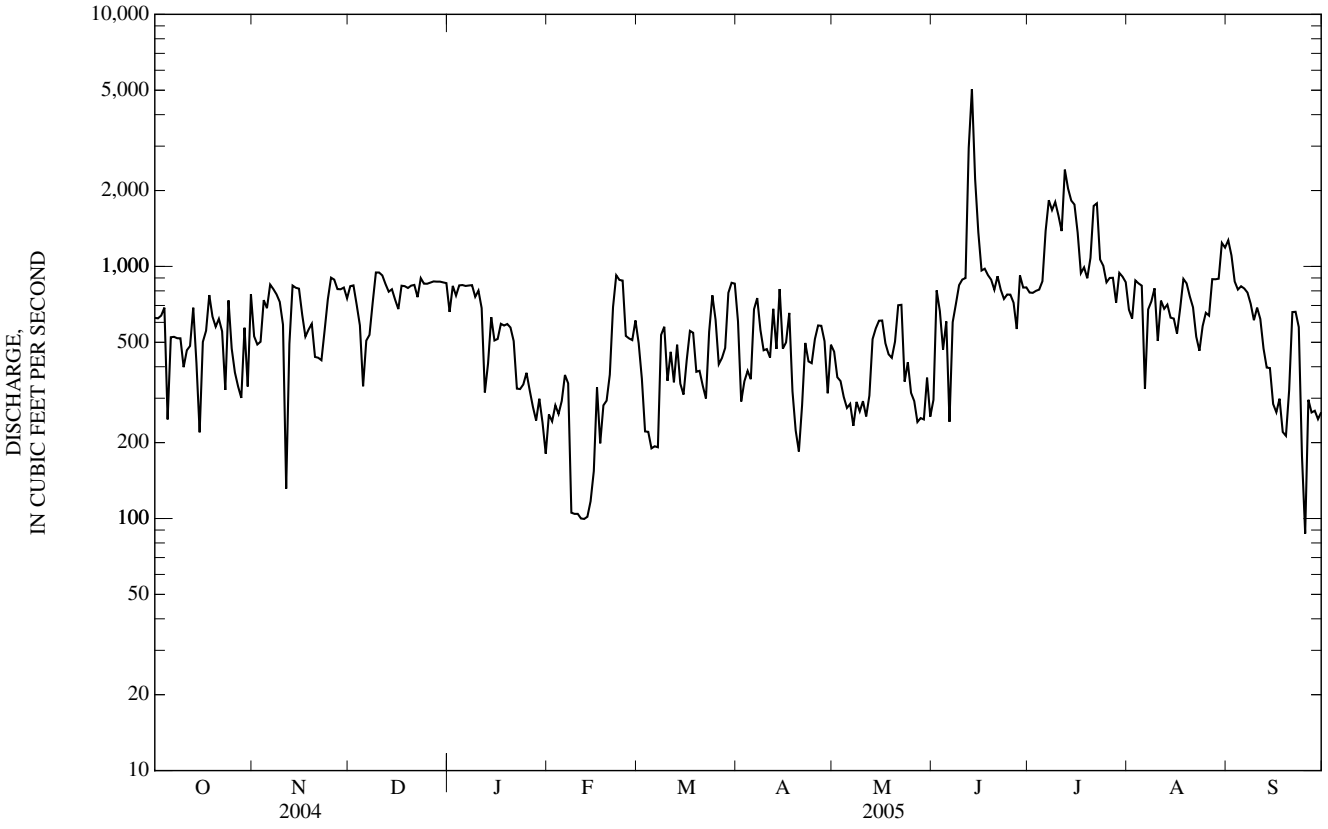
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	516	656	790	544	356	450	475	387	1,034	1,249	731	1,239
MAX	516	656	790	544	356	450	475	387	1,034	1,249	731	1,961
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	516	656	790	544	356	450	475	387	1,034	1,249	731	516
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	235,147			
ANNUAL MEAN	644		644	
HIGHEST ANNUAL MEAN			644	2005
LOWEST ANNUAL MEAN			644	2005
HIGHEST DAILY MEAN	5,050	Jun 13	7,440	Sep 8, 2004
LOWEST DAILY MEAN	87	Sep 25	87	Sep 25, 2005
ANNUAL SEVEN-DAY MINIMUM	105	Feb 8	105	Feb 8, 2005
MAXIMUM PEAK FLOW	9,740	Jun 12	11,500	Sep 8, 2004
MAXIMUM PEAK STAGE	15.86	Jun 12	17.37	Sep 8, 2004
INSTANTANEOUS LOW FLOW	73*	Apr 18	73*	Apr 18, 2005
10 PERCENT EXCEEDS	912		912	
50 PERCENT EXCEEDS	592		592	
90 PERCENT EXCEEDS	260		260	

* See REMARKS.

03508050 TUCKASEGEE RIVER AT SECONDARY ROAD 1172 NEAR CULLOWHEE, NC—Continued



03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC

LOCATION.--Lat 35°23'04", long 83°17'30", Jackson County, Hydrologic Unit 06010203, on old truss bridge near left bank, 60 ft upstream from bridge on Secondary Road 1392, 0.1 mi upstream from Barkers Creek and at river mile 27.3

DRAINAGE AREA.--360 mi^2.

PERIOD OF RECORD.--July 2004 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,920 ft above NGVD of 1929 (from topographic map). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Flow regulated by Cedar Cliff Lake and Bear Creek Lake. Minimum discharge for period of record and current water year affected by regulation.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,130	841	1,620	1,120	612	1,100	1,200	956	640	1,290	1,230	1,820
2	1,080	688	1,490	1,270	607	875	1,060	868	1,240	1,220	987	1,630
3	1,050	940	1,320	1,190	798	726	1,060	800	1,180	1,260	1,220	1,320
4	1,070	1,360	1,250	1,250	688	685	1,080	766	773	1,240	1,250	1,220
5	792	1,190	936	1,250	684	674	986	707	1,040	1,240	1,230	1,190
6	726	1,210	1,250	1,260	712	648	1,250	705	553	1,610	934	1,180
7	847	1,140	1,530	1,240	744	648	1,280	652	1,080	2,990	925	1,120
8	829	1,060	1,450	1,310	488	1,250	1,250	683	1,100	2,390	1,260	1,130
9	782	1,050	2,030	1,190	474	1,210	1,010	654	1,330	2,310	1,340	826
10	681	837	2,020	1,170	477	1,010	1,000	750	1,250	2,190	1,110	987
11	723	521	1,880	1,180	448	945	975	744	1,300	2,020	1,120	967
12	695	1,160	1,690	718	441	905	1,200	685	2,380	3,180	1,130	802
13	969	1,400	1,560	762	463	897	1,370	834	6,900	2,880	1,310	676
14	812	1,250	1,500	1,710	573	930	1,720	954	3,180	2,510	1,170	669
15	393	1,190	1,500	1,120	580	761	1,260	1,080	2,290	2,360	1,080	552
16	652	1,030	1,200	1,050	679	916	1,120	1,150	1,550	2,100	974	609
17	772	927	1,440	1,040	583	966	1,250	763	1,500	1,550	970	601
18	983	839	1,420	1,050	636	1,140	1,050	835	1,530	1,480	1,330	476
19	995	879	1,390	1,020	635	840	747	791	1,520	1,420	1,360	473
20	849	770	1,350	1,020	778	828	746	1,350	1,630	1,700	1,180	500
21	824	716	1,360	945	1,470	789	713	1,300	1,520	2,130	1,040	878
22	808	706	1,290	748	1,730	772	1,010	1,210	1,420	2,480	1,060	898
23	615	870	1,680	717	1,500	1,020	1,030	915	1,190	1,570	976	890
24	859	1,970	1,490	713	1,520	1,270	949	753	1,210	1,500	953	535
25	738	2,050	1,420	763	1,220	1,190	993	770	1,190	1,310	1,000	308
26	673	1,690	1,400	709	1,030	887	1,070	666	1,180	1,310	870	386
27	538	1,540	1,380	679	1,000	905	1,090	625	980	1,320	1,200	550
28	451	1,480	1,360	572	1,160	1,210	987	640	1,380	1,120	1,220	493
29	863	1,420	1,350	701	---	1,350	796	715	1,490	1,510	1,230	503
30	536	1,330	1,330	663	---	1,410	1,040	640	1,330	1,390	2,610	482
31	860	---	1,320	612	---	1,410	---	573	---	1,330	1,950	---
TOTAL	24,595	34,054	45,206	30,742	22,730	30,167	32,292	25,534	46,856	55,910	37,219	24,671
MEAN	793	1,135	1,458	992	812	973	1,076	824	1,562	1,804	1,201	822
MAX	1,130	2,050	2,030	1,710	1,730	1,410	1,720	1,350	6,900	3,180	2,610	1,820
MIN	393	521	936	572	441	648	713	573	553	1,120	870	308

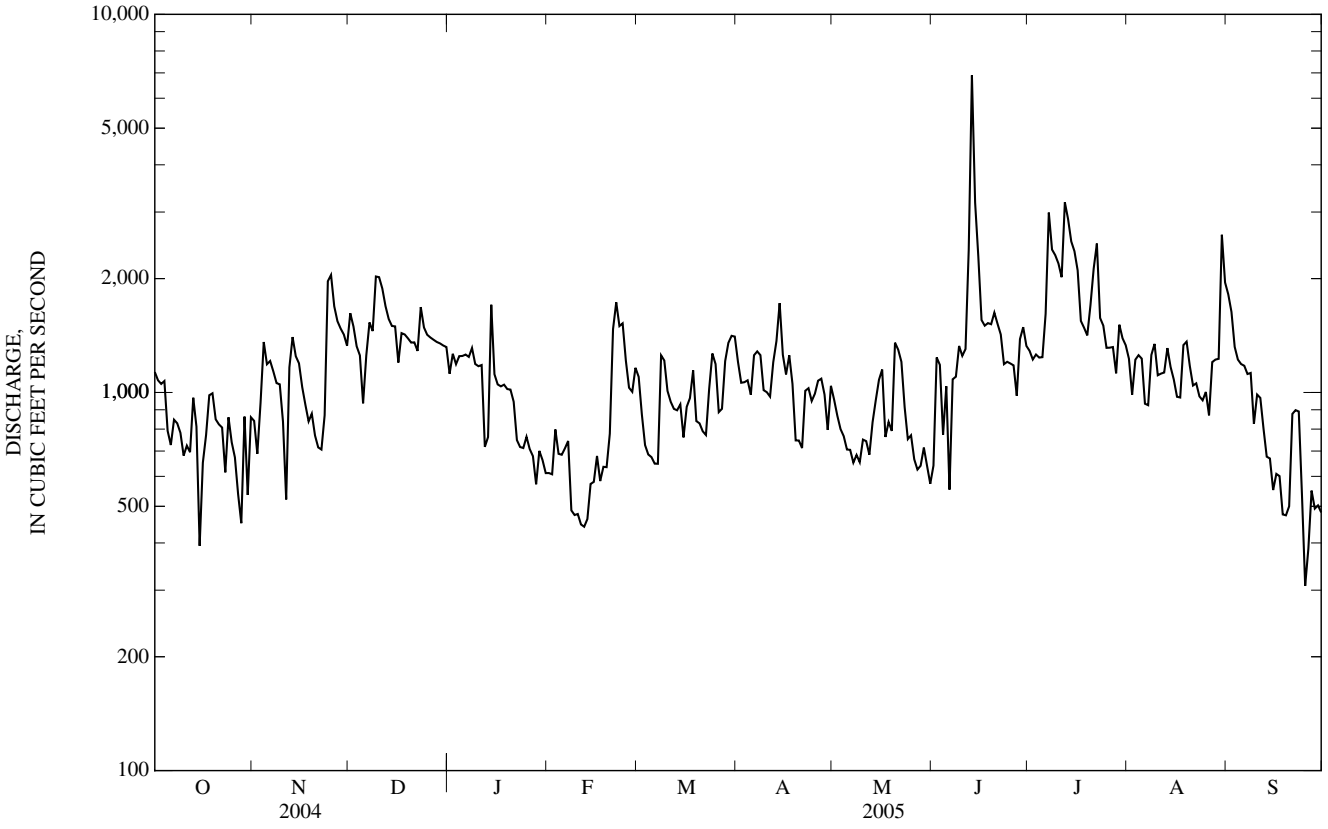
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

MEAN	793	1,135	1,458	992	812	973	1,076	824	1,562	1,192	882	1,851
MAX	793	1,135	1,458	992	812	973	1,076	824	1,562	1,804	1,201	2,879
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)
MIN	793	1,135	1,458	992	812	973	1,076	824	1,562	580	564	822
(WY)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2004)	(2004)	(2005)

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	409,976			
ANNUAL MEAN	1,123		1,123	
HIGHEST ANNUAL MEAN			1,123	2005
LOWEST ANNUAL MEAN			1,123	2005
HIGHEST DAILY MEAN	6,900	Jun 13	12,600	Sep 17, 2004
LOWEST DAILY MEAN	308	Sep 25	252	Aug 23, 2004
ANNUAL SEVEN-DAY MINIMUM	465	Sep 24	337	Aug 14, 2004
MAXIMUM PEAK FLOW	11,200	Jun 13	15,800	Sep 17, 2004
MAXIMUM PEAK STAGE	10.90	Jun 13	13.26	Sep 17, 2004
INSTANTANEOUS LOW FLOW	295*	Sep 26	169*	Aug 23, 2004
10 PERCENT EXCEEDS	1,560		1,560	
50 PERCENT EXCEEDS	1,060		1,060	
90 PERCENT EXCEEDS	636		636	

* See REMARKS.

03510577 TUCKASEGEE RIVER AT BARKERS CREEK, NC—Continued



03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC

LOCATION.--Lat 35°27'41", long 83°21'13", Swain County, Hydrologic Unit 06010203, in Cherokee Indian Reservation on left bank 1500 ft upstream from bridge on Secondary Road 1359, 0.5 mi south of Birdtown, 0.6 mi downstream of Adams Creek, 0.6 mi upstream from Goose Creek, 2.2 mi southwest of Cherokee, and at mile 3.1.

DRAINAGE AREA.--184 mi^2.

PERIOD OF RECORD.--July 1945 to September 1946, July 1948 to current year.

GAGE.--Water-stage recorder and crest-stage gages. Datum of gage is 1,843.30 ft above NGVD of 1929. Prior to Oct. 1, 1946, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Maximum gage height for period of record from floodmarks. Minimum discharge for period of record also occurred Nov. 9, 1987. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of Nov. 19, 1906, and Mar. 27, 1913, reached stages of 18 and 14.5 ft, respectively, from studies by Tennessee Valley Authority; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	440	315	1,900	543	394	649	635	717	392	426	441	567
2	414	315	1,190	547	393	580	1,660	627	507	375	365	474
3	393	444	982	536	574	548	1,120	577	409	402	350	419
4	366	1,280	846	531	473	528	1,030	540	404	381	355	378
5	349	871	743	519	446	549	1,010	516	370	467	327	353
6	334	626	877	544	439	510	971	499	407	453	343	328
7	322	530	1,330	529	435	520	926	470	454	1,920	358	309
8	310	470	1,110	783	440	1,200	838	452	406	1,130	416	294
9	302	424	1,860	638	452	871	746	436	401	727	379	278
10	296	395	1,910	579	470	770	678	539	415	598	390	264
11	285	387	1,570	550	423	715	630	499	447	618	322	254
12	281	821	1,270	529	406	665	628	452	527	626	292	245
13	332	695	1,120	608	430	652	889	446	1,050	617	352	238
14	300	570	993	1,450	567	705	1,030	436	652	616	454	231
15	289	515	894	815	534	652	819	474	539	564	323	225
16	270	480	819	708	555	699	737	454	474	562	319	275
17	257	452	763	628	576	717	681	407	432	524	306	249
18	255	427	716	569	501	638	641	387	460	637	593	221
19	463	405	686	548	472	602	605	372	456	805	596	211
20	378	397	633	530	511	573	572	1,120	710	709	431	204
21	314	372	612	516	1,630	549	546	746	612	614	375	199
22	291	359	595	497	1,310	558	566	590	466	551	374	195
23	278	548	1,120	459	962	992	630	532	439	483	344	190
24	314	2,080	850	457	943	748	562	491	402	437	329	186
25	289	1,890	733	440	810	668	519	462	378	406	321	182
26	272	1,240	681	450	711	631	528	437	375	379	301	268
27	288	988	634	424	652	634	577	418	386	355	290	297
28	308	917	605	398	723	975	532	413	437	393	301	209
29	428	762	585	428	---	793	622	393	427	472	336	217
30	392	709	569	445	---	715	737	380	415	372	1,090	214
31	339	---	555	408	---	669	---	366	---	412	831	---
TOTAL	10,149	20,684	29,751	17,606	17,232	21,275	22,665	15,648	14,249	18,031	12,604	8,174
MEAN	327	689	960	568	615	686	756	505	475	582	407	272
MAX	463	2,080	1,910	1,450	1,630	1,200	1,660	1,120	1,050	1,920	1,090	567
MIN	255	315	555	398	393	510	519	366	370	355	290	182
CFSM	1.78	3.75	5.22	3.09	3.34	3.73	4.11	2.74	2.58	3.16	2.21	1.48
IN.	2.05	4.18	6.01	3.56	3.48	4.30	4.58	3.16	2.88	3.65	2.55	1.65

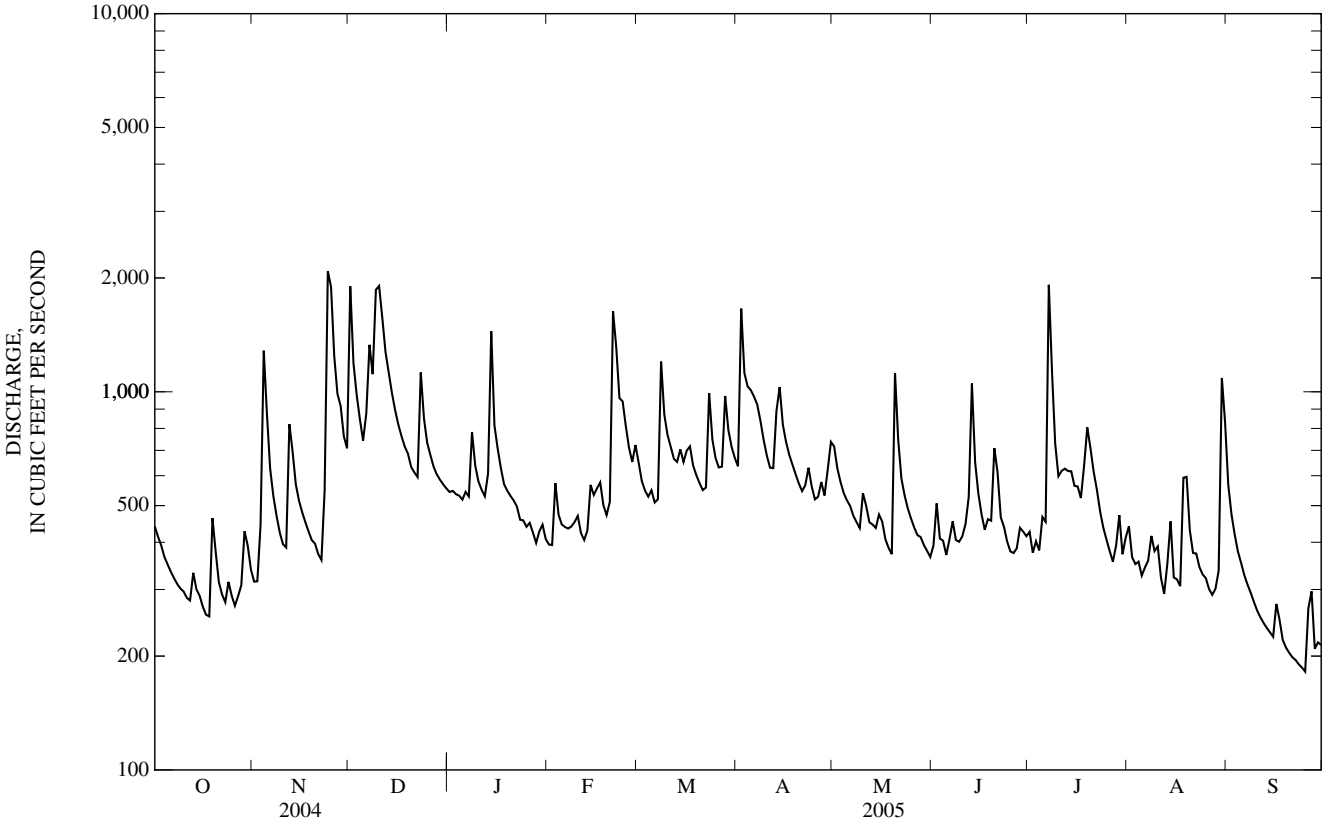
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1945 - 2005,@ BY WATER YEAR (WY)

MEAN	261	387	579	707	798	865	718	544	426	386	328	270
MAX	645	777	1,266	1,428	1,700	1,714	1,315	1,202	1,136	938	733	968
(WY)	(1990)	(1958)	(1962)	(1974)	(1990)	(1963)	(1994)	(1984)	(1989)	(1989)	(1994)	(2004)
MIN	94.5	125	162	170	392	330	277	239	175	169	152	121
(WY)	(1955)	(1988)	(1966)	(1981)	(1978)	(1988)	(1986)	(1986)	(1988)	(1952)	(2002)	(1954)

03512000 OCONALUFTEE RIVER AT BIRDTOWN, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1945 - 2005[@]	
ANNUAL TOTAL	210,388		208,068			
ANNUAL MEAN	575		570		521	
HIGHEST ANNUAL MEAN					771	1994
LOWEST ANNUAL MEAN					274	1986
HIGHEST DAILY MEAN	5,900	Sep 17	2,080	Nov 24	8,470	Mar 12, 1963
LOWEST DAILY MEAN	196	Sep 6	182	Sep 25	80	Nov 8, 1987
ANNUAL SEVEN-DAY MINIMUM	224	Aug 31	195	Sep 19	82	Oct 16, 1954
MAXIMUM PEAK FLOW			3,700	Dec 9	15,900	Dec 30, 1969
MAXIMUM PEAK STAGE			4.90	Dec 9	12.46*	Dec 30, 1969
INSTANTANEOUS LOW FLOW			176*	Sep 25	79*	Nov 8, 1987
ANNUAL RUNOFF (CFSM)	3.12		3.10		2.83	
ANNUAL RUNOFF (INCHES)	42.53		42.07		38.47	
10 PERCENT EXCEEDS	921		933		942	
50 PERCENT EXCEEDS	460		499		397	
90 PERCENT EXCEEDS	282		297		169	

[@] See PERIOD OF RECORD.
* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC

LOCATION.--Lat 35°25'39", long 83°26'49", Swain County, Hydrologic Unit 06010203, on left bank 400 ft downstream of bridge on Secondary Road 1364, Everett Street, in Bryson City, 0.6 mi downstream of Deep Creek, and at mile 12.6.

DRAINAGE AREA.--655 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1897 to December 1981, October 1983 to January 1995, April 1996 to current year. Monthly discharge only for some periods, published in WSP 1306.

REVISED RECORDS.--WSP 523: 1916, 1918-20. WSP 823: Drainage area. WSP 1306: 1898-1913. WSP 1336: 1907, 1915(M), 1916-20, 1921-29(M), 1933-34(M).

GAGE.--Water-stage recorder. Datum of gage is 1,714.54 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Nov. 7, 1897, to Feb. 2, 1914, and May 18, 1920, to June 27, 1927, nonrecording gage at bridge 400 ft upstream at datum of 1,716.54 ft. Feb. 3, 1914, to May 17, 1920, water-stage recorder at site 200 ft upstream at datum of 1,716.54 ft. June 28, 1927, to Sept. 30, 1960, water-stage recorder at present site at datum of 1,716.54 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Considerable diurnal fluctuation caused by power plants upstream from station. Flow regulated by Thorpe Reservoir, Cedar Cliff Lake, Bear Creek Lake, Tennessee Creek project lakes (stations 03507111, 03507131), and two small reservoirs with a combined capacity of 250 ft^3/s-day. Maximum discharge for period of record, from rating curve extended above 28,000 ft^3/s on basis of slope-area measurement of peak flow. Minimum discharge for period of record and minimum daily discharge for period of record also occurred Sept. 10, 1925, caused by filling reservoir on Oconaluftee River. Minimum daily discharge during normal regulation: 186 ft^3/s, Oct. 13, 1925.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 1840, Mar. 6, 1867, and June 1876 reached stages of 22, 19, and 19 ft, respectively, present site and datum, from studies by Tennessee Valley Authority; discharge not determined. The flood in May 1840 exceeded all other observed floods at this location.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,870	1,450	4,310	1,930	1,220	2,260	2,360	2,140	1,310	1,820	1,940	2,790
2	1,780	1,240	3,310	2,060	1,270	1,950	3,640	1,860	2,040	1,660	1,460	2,460
3	1,730	1,730	2,830	2,000	1,720	1,720	2,930	1,720	1,960	1,720	1,570	1,970
4	1,710	3,320	2,550	2,020	1,470	1,600	2,770	1,660	1,500	1,710	1,740	1,800
5	1,480	2,690	2,120	2,020	1,400	1,610	2,670	1,560	1,720	1,750	1,630	1,700
6	1,240	2,300	2,570	2,060	1,370	1,520	2,820	1,530	1,330	2,050	1,500	1,680
7	1,430	2,080	3,660	2,030	1,490	1,520	2,820	1,480	1,740	5,790	1,260	1,580
8	1,420	1,910	3,210	2,420	1,260	3,290	2,830	1,390	1,840	4,340	1,850	1,550
9	1,370	1,820	4,800	2,140	1,190	2,700	2,210	1,410	2,070	3,550	1,780	1,240
10	1,260	1,540	5,110	2,010	1,210	2,410	2,180	1,520	2,000	3,320	1,780	1,390
11	1,300	1,310	4,440	2,010	1,140	2,100	2,100	1,650	2,100	2,900	1,460	1,350
12	1,260	2,420	3,750	1,530	1,110	2,100	2,190	1,420	2,550	4,410	1,510	1,180
13	1,620	2,660	3,330	1,570	1,160	1,940	2,830	1,500	9,080	4,170	1,650	1,050
14	1,410	2,280	3,010	3,840	1,510	2,180	3,480	1,630	4,420	3,720	2,000	1,010
15	1,020	2,140	2,830	2,380	1,490	1,840	2,650	1,880	3,460	3,400	1,500	966
16	1,100	1,900	2,420	2,160	1,510	1,980	2,360	2,000	2,170	3,190	1,410	980
17	1,290	1,750	2,590	2,000	1,560	2,130	2,400	1,440	2,030	2,330	1,350	1,040
18	1,520	1,600	2,500	1,970	1,460	2,300	2,210	1,550	2,000	2,240	2,060	838
19	1,850	1,620	2,420	1,900	1,420	1,850	1,730	1,440	2,160	2,590	2,290	802
20	1,600	1,500	2,310	1,860	1,600	1,790	1,700	3,030	2,610	2,590	1,770	777
21	1,400	1,410	2,270	1,830	3,970	1,720	1,610	2,580	2,450	2,940	1,540	1,080
22	1,370	1,380	2,190	1,560	4,080	1,690	1,890	2,230	2,110	3,550	1,350	1,190
23	1,220	1,860	3,260	1,450	3,180	2,570	2,120	1,830	1,690	2,340	1,630	1,180
24	1,400	5,310	2,730	1,390	3,150	2,550	1,900	1,560	1,670	2,110	1,360	941
25	1,370	5,210	2,490	1,480	2,690	2,360	1,830	1,560	1,620	1,860	1,470	622
26	1,190	3,730	2,400	1,430	2,200	1,960	1,970	1,380	1,590	1,790	1,250	740
27	1,080	3,130	2,320	1,370	2,120	1,930	2,060	1,370	1,460	1,760	1,560	1,050
28	1,010	2,930	2,260	1,210	2,380	2,920	1,880	1,360	1,760	1,680	1,630	824
29	1,550	2,640	2,220	1,350	---	2,650	1,880	1,390	2,150	2,090	1,680	822
30	1,240	2,480	2,190	1,410	---	2,650	2,100	1,300	1,820	1,960	4,230	813
31	1,410	---	2,150	1,300	---	2,580	---	1,220	---	1,870	3,460	---
TOTAL	43,500	69,340	90,550	57,690	51,330	66,370	70,120	51,590	68,410	83,200	54,670	37,415
MEAN	1,403	2,311	2,921	1,861	1,833	2,141	2,337	1,664	2,280	2,684	1,764	1,247
MAX	1,870	5,310	5,110	3,840	4,080	3,290	3,640	3,030	9,080	5,790	4,230	2,790
MIN	1,010	1,240	2,120	1,210	1,110	1,520	1,610	1,220	1,310	1,660	1,250	622

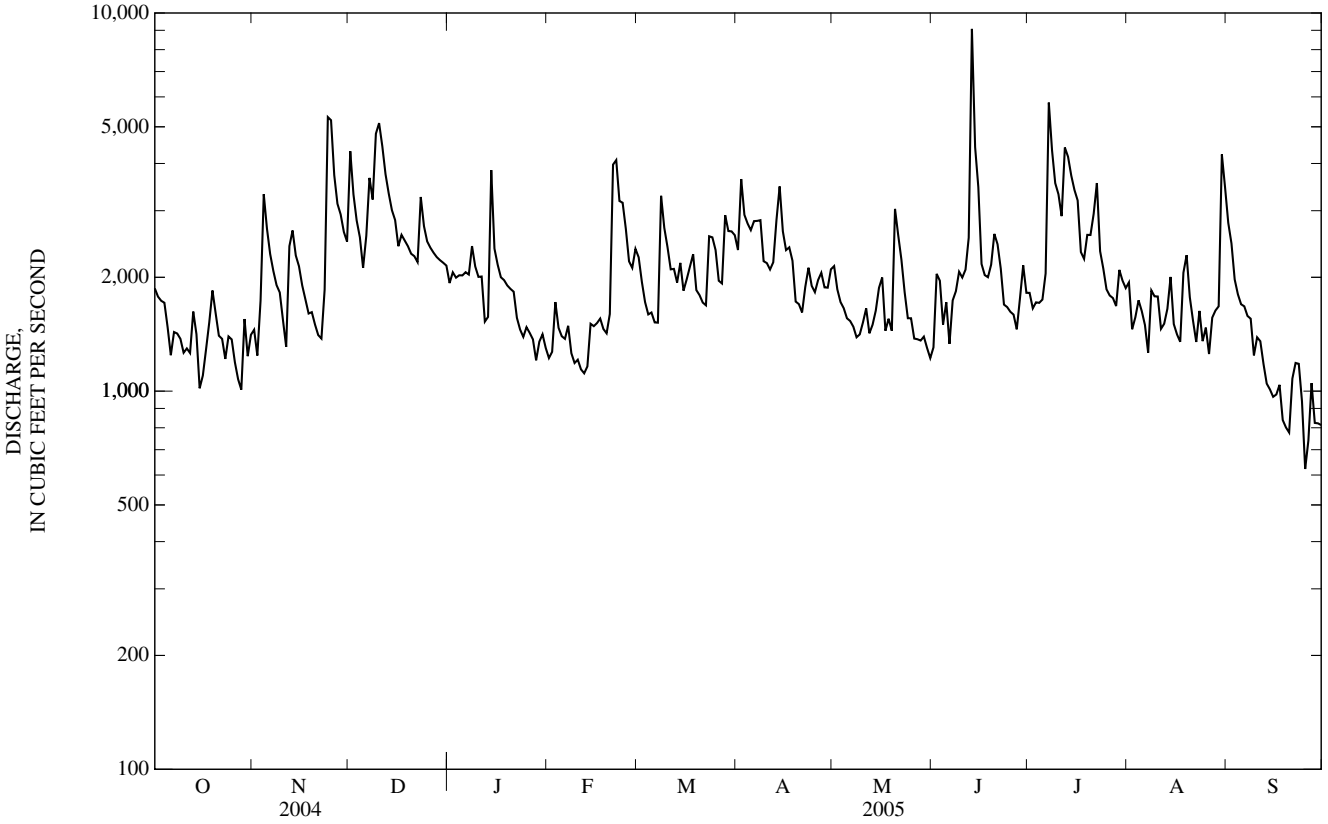
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2005, @BY WATER YEAR (WY)

MEAN	926	1,077	1,603	2,000	2,269	2,557	2,223	1,757	1,406	1,258	1,156	992
MAX	3,654	2,899	3,704	4,819	5,847	6,504	4,843	3,988	3,199	3,379	4,251	4,561
(WY)	(1899)	(1907)	(1933)	(1937)	(1899)	(1899)	(1920)	(2003)	(1909)	(1916)	(1901)	(2004)
MIN	347	378	457	599	736	926	841	602	531	503	220	195
(WY)	(1932)	(1932)	(1940)	(1940)	(1941)	(1988)	(1986)	(1941)	(1941)	(1925)	(1925)	(1925)

03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1898 - 2005[@]	
ANNUAL TOTAL	696,512		744,185			
ANNUAL MEAN	1,903		2,039		1,598	
HIGHEST ANNUAL MEAN					2,576	1899
LOWEST ANNUAL MEAN					879	1986
HIGHEST DAILY MEAN	23,500	Sep 17	9,080	Jun 13	28,000	Mar 4, 1917
LOWEST DAILY MEAN	684	Jun 21	622	Sep 25	31*	Sep 9, 1925
ANNUAL SEVEN-DAY MINIMUM	774	Aug 14	830	Sep 24	97	Sep 4, 1925
MAXIMUM PEAK FLOW			13,400	Jun 13	61,600*	Aug 30, 1940
MAXIMUM PEAK STAGE			8.38	Jun 13	15.96	Aug 30, 1940
INSTANTANEOUS LOW FLOW			592	Sep 26	27*	Sep 10, 1925
10 PERCENT EXCEEDS	3,140		3,160		2,840	
50 PERCENT EXCEEDS	1,480		1,840		1,270	
90 PERCENT EXCEEDS	975		1,240		610	

[@] See PERIOD OF RECORD.
* See REMARKS.



03513000 TUCKASEGEE RIVER AT BRYSON CITY, NC—Continued

PRECIPITATION RECORDS

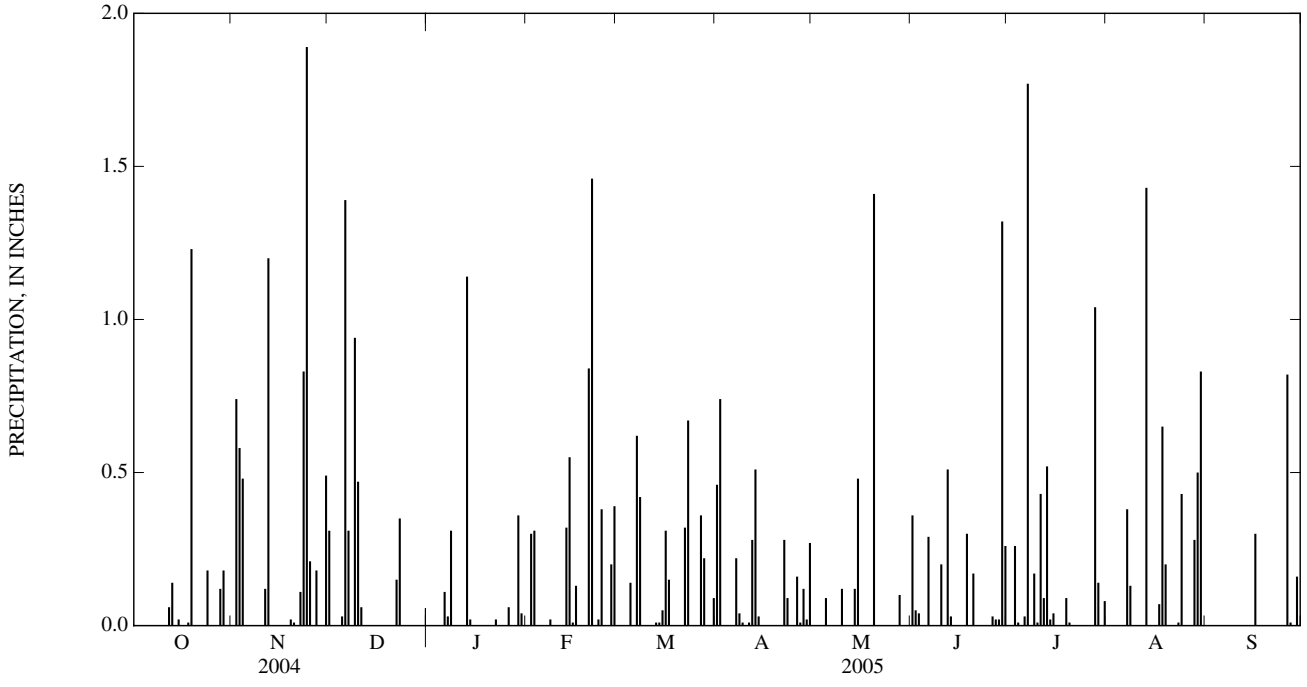
PERIOD OF RECORD.--October 1999 to current year.

GAGE.--Tipping-bucket raingage and electronic datalogger. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with Tennessee Valley Authority and the North Carolina Department of Environment and Natural Resources. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.00	0.00	0.31	0.00	0.00	0.00	0.46	0.00	0.36	0.00	0.00	0.00
2	0.00	0.74	0.00	0.00	0.30	0.00	0.74	0.00	0.05	0.00	0.00	0.00
3	0.00	0.58	0.00	0.00	0.31	0.00	0.00	0.00	0.04	0.26	0.00	0.00
4	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
5	0.00	0.00	0.03	0.00	0.00	0.14	0.00	0.09	0.00	0.00	0.00	0.00
6	0.00	0.00	1.39	0.11	0.00	0.00	0.00	0.00	0.29	0.03	0.00	0.00
7	0.00	0.00	0.31	0.03	0.00	0.62	0.22	0.00	0.00	1.77	0.38	0.00
8	0.00	0.00	0.00	0.31	0.02	0.42	0.04	0.00	0.00	0.00	0.13	0.00
9	0.00	0.00	0.94	0.00	0.00	0.00	0.01	0.00	0.00	0.17	0.00	0.00
10	0.00	0.00	0.47	0.00	0.00	0.00	0.00	0.12	0.20	0.01	0.00	0.00
11	0.00	0.12	0.06	0.00	0.00	0.00	0.01	0.00	0.00	0.43	0.00	0.00
12	0.06	1.20	0.00	0.00	0.00	0.00	0.28	0.00	0.51	0.09	0.00	0.00
13	0.14	0.00	0.00	1.14	0.32	0.01	0.51	0.00	0.03	0.52	1.43	0.00
14	0.00	0.00	0.00	0.02	0.55	0.01	0.03	0.12	0.00	0.02	0.00	0.00
15	0.02	0.00	0.00	0.00	0.01	0.05	0.00	0.48	0.00	0.04	0.00	0.00
16	0.00	0.00	0.00	0.00	0.13	0.31	0.00	0.00	0.00	0.00	0.00	0.30
17	0.00	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.07	0.00
18	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.65	0.00
19	1.23	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.20	0.00
20	0.00	0.01	0.00	0.00	0.84	0.00	0.00	1.41	0.17	0.01	0.00	0.00
21	0.00	0.00	0.00	0.00	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.11	0.15	0.02	0.00	0.32	0.28	0.00	0.00	0.00	0.00	0.00
23	0.00	0.83	0.35	0.00	0.02	0.67	0.09	0.00	0.00	0.00	0.01	0.00
24	0.18	1.89	0.00	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.43	0.00
25	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.06	0.00	0.00	0.16	0.00	0.03	0.00	0.00	0.82
27	0.00	0.18	0.00	0.00	0.20	0.36	0.01	0.00	0.02	0.00	0.00	0.01
28	0.12	0.00	0.00	0.00	0.39	0.22	0.12	0.10	0.02	1.04	0.28	0.00
29	0.18	0.00	0.00	0.36	---	0.00	0.02	0.00	1.32	0.14	0.50	0.16
30	0.00	0.49	0.00	0.04	---	0.00	0.27	0.00	0.26	0.00	0.83	0.00
31	0.00	---	0.00	0.00	---	0.09	---	0.00	---	0.08	0.00	---
TOTAL	1.94	6.86	4.01	2.09	4.93	3.37	3.25	2.32	3.60	4.71	4.91	1.29



0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC

LOCATION.--Lat 35°26'49", long 83°56'22", Graham County, Hydrologic Unit 06010204, on right bank, 93 ft downstream of U.S. Forest Service bridge number 62 on Slickrock Road, 1.7 mi upstream of mouth, and 1.2 mi east southeast of Tapoco.

DRAINAGE AREA.--206 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1999 to current year.

REVISED RECORDS.--WDR NC-04-1: 2002(M).

GAGE.--Water-stage recorder. Elevation of gage is 1,260 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Considerable regulation at times caused by Santeetlah Dam, 10.3 mi upstream. Water from Santeetlah Lake, 10.3 mi upstream, is diverted to hydro powerplant on the Little Tennessee River, which bypasses gage. Maximum discharge for period of record, from rating curve extended above 5,000 ft^3/s on basis of step-backwater computation of peak flow. Minimum discharge for period of record also occurred Sept. 17, 20, 2000.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	77	47	2,240	106	87	129	146	104	90	69	68	74
2	72	49	228	103	90	115	318	91	111	67	65	140
3	71	94	185	100	140	109	286	86	102	74	58	119
4	69	190	162	98	111	105	234	83	89	72	55	102
5	66	104	147	96	101	104	202	87	78	107	53	97
6	57	79	725	102	95	98	175	88	127	82	53	95
7	55	71	3,720	97	90	101	169	81	143	343	74	93
8	53	65	1,710	148	90	272	177	77	125	177	73	93
9	52	61	3,610	110	87	173	150	75	120	117	58	92
10	53	59	2,040	103	84	146	137	79	143	100	56	90
11	51	68	2,790	100	80	133	130	76	140	113	52	88
12	54	122	582	96	79	123	129	71	153	155	49	88
13	70	101	914	144	85	117	129	69	167	130	60	87
14	56	84	866	262	133	112	120	68	127	121	69	85
15	53	76	482	165	109	104	111	95	104	108	51	85
16	51	72	181	138	103	111	106	79	91	99	47	107
17	49	69	168	121	94	131	102	70	83	90	46	759
18	49	66	158	110	88	114	99	67	77	82	57	189
19	96	64	151	107	85	106	97	65	75	122	66	75
20	66	64	139	104	115	102	94	499	150	104	49	73
21	56	61	136	101	396	98	91	220	113	81	45	72
22	53	61	134	98	280	107	100	142	84	74	44	70
23	51	141	228	91	186	259	105	116	75	68	47	69
24	54	878	166	e89	171	173	103	101	69	64	43	68
25	51	447	146	88	141	144	92	91	66	62	43	67
26	49	247	135	91	126	129	91	85	63	59	42	69
27	49	187	125	85	119	123	98	81	62	57	41	78
28	50	161	119	80	144	289	90	80	119	134	41	69
29	53	134	115	99	---	193	92	76	95	120	59	69
30	50	124	112	104	---	162	102	74	74	78	103	69
31	48	---	109	90	---	155	---	71	---	70	56	---
TOTAL	1,784	4,046	22,723	3,426	3,509	4,337	4,075	3,147	3,115	3,199	1,723	3,331
MEAN	57.5	135	733	111	125	140	136	102	104	103	55.6	111
MAX	96	878	3,720	262	396	289	318	499	167	343	103	759
MIN	48	47	109	80	79	98	90	65	62	57	41	67

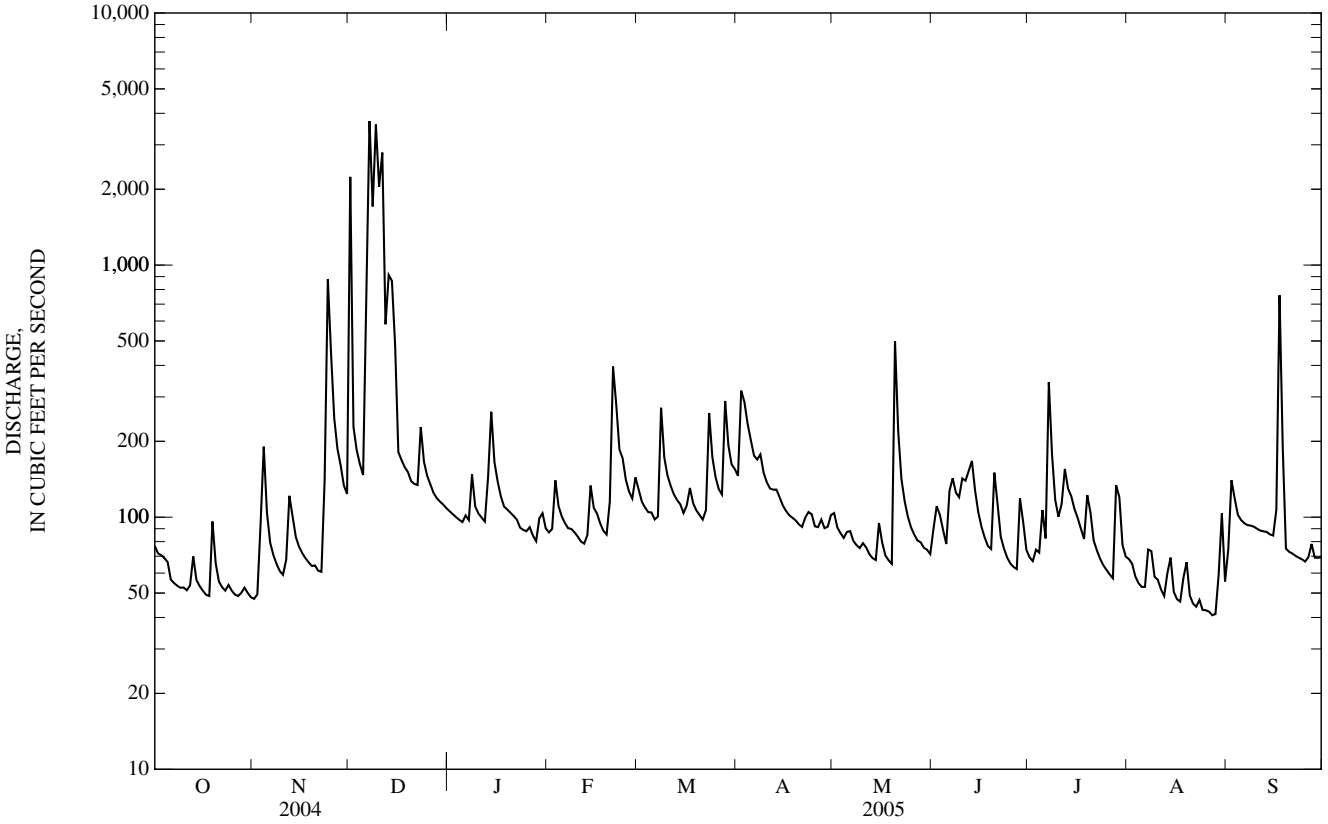
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	32.6	66.8	188	172	127	118	134	240	77.9	83.7	49.1	72.5
MAX	57.5	135	733	589	216	149	229	889	113	131	81.5	165
(WY)	(2005)	(2005)	(2005)	(2002)	(2003)	(2002)	(2002)	(2003)	(2003)	(2003)	(2003)	(2004)
MIN	12.1	26.7	31.5	65.8	77.3	79.7	64.3	53.2	52.5	41.0	22.7	19.9
(WY)	(2001)	(2000)	(2000)	(2000)	(2000)	(2000)	(2001)	(2001)	(2002)	(2002)	(2002)	(2000)

0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	56,831		58,415			
ANNUAL MEAN	155		160		114	
HIGHEST ANNUAL MEAN					176	2003
LOWEST ANNUAL MEAN					54.9	2001
HIGHEST DAILY MEAN	3,720	Dec 7	3,720	Dec 7	8,350	May 6, 2003
LOWEST DAILY MEAN	38	Sep 6	41	Aug 27	9.1	Sep 17, 2000
ANNUAL SEVEN-DAY MINIMUM	43	Aug 31	43	Aug 22	9.8	Sep 14, 2000
MAXIMUM PEAK FLOW			6,370	Dec 9	15,000*	May 6, 2003
MAXIMUM PEAK STAGE			8.23	Dec 9	13.30	May 6, 2003
INSTANTANEOUS LOW FLOW			37	Aug 28	8.8*	Sep 16, 2000
10 PERCENT EXCEEDS	172		183		163	
50 PERCENT EXCEEDS	86		95		68	
90 PERCENT EXCEEDS	50		54		22	

* See REMARKS.
e Estimated



0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 to current year.

INSTRUMENTATION.--Temperature probe since October 1999. Satellite telemetry at station.

REMARKS.--Records good. Station operated in cooperation with Tapoco, Inc.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 30.0°C, July 30, 2002; minimum recorded, 0°C, periodically in winter months.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 28.2°C, Aug. 21; minimum recorded, 0.0°C, Jan. 24.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.0	16.8	18.5	17.8	16.2	17.1	14.0	11.0	12.9	8.6	7.2	8.0
2	19.6	17.2	18.5	18.8	16.8	17.8	11.3	8.0	8.9	9.1	8.0	8.5
3	19.6	17.7	18.4	18.1	17.2	17.7	8.1	6.8	7.4	10.2	8.4	9.3
4	18.9	15.6	17.2	17.4	15.0	16.8	7.5	6.1	6.8	11.2	9.8	10.4
5	18.4	14.9	16.6	15.0	11.5	13.3	8.1	5.9	6.9	11.3	9.7	10.6
6	17.9	14.3	16.1	11.5	9.7	10.8	13.2	8.1	9.5	12.2	11.1	11.6
7	18.4	14.9	16.5	11.7	9.4	10.7	13.8	13.2	13.5	11.1	9.6	10.0
8	18.0	15.2	16.6	12.2	10.4	11.2	13.4	12.5	13.0	11.5	9.9	10.8
9	17.4	16.0	16.7	10.5	8.7	9.7	13.3	12.1	12.7	9.9	8.3	9.0
10	19.1	16.1	17.5	10.4	8.4	9.4	13.3	12.1	12.6	9.4	7.6	8.6
11	20.0	16.9	18.4	11.2	9.0	9.8	12.6	10.9	11.8	10.6	8.5	9.4
12	18.6	17.3	17.9	12.7	11.2	12.0	10.9	9.0	9.8	12.4	10.4	11.4
13	17.9	16.6	17.2	12.4	10.8	11.8	11.1	9.8	10.4	13.1	11.6	12.2
14	16.6	15.1	15.8	10.8	9.2	10.0	9.8	8.1	9.2	12.0	7.8	9.9
15	15.1	12.6	13.8	9.6	8.0	9.0	8.6	5.6	7.6	7.8	6.4	7.3
16	14.1	11.6	12.6	9.3	7.8	8.6	5.6	4.1	4.9	7.4	5.1	6.6
17	13.6	10.3	12.1	10.6	8.4	9.6	6.3	4.8	5.5	5.1	1.7	3.0
18	15.4	12.7	13.9	11.7	9.5	10.7	5.7	4.4	5.2	1.7	0.4	1.2
19	15.7	15.0	15.3	13.2	11.5	12.4	5.6	3.0	5.0	2.7	1.2	1.9
20	17.7	15.1	16.1	13.6	12.8	13.2	3.0	0.9	1.8	5.0	2.4	3.7
21	18.3	16.0	16.9	13.1	12.3	12.8	4.5	1.9	3.2	7.2	5.0	6.1
22	17.6	15.3	16.5	14.3	12.3	13.3	7.4	4.2	5.5	7.1	4.3	6.2
23	16.7	15.4	16.1	14.0	13.6	13.7	8.0	4.7	6.8	4.3	0.4	1.7
24	17.3	15.5	16.2	14.1	13.6	13.8	4.7	3.2	3.9	1.2	0.0	0.5
25	17.3	15.1	16.0	13.6	8.8	11.0	3.5	2.2	3.0	3.5	1.2	2.4
26	16.6	13.9	15.4	8.8	7.6	8.3	3.6	2.6	3.2	6.1	3.5	4.8
27	17.7	15.6	16.6	9.2	7.2	8.1	3.4	2.5	3.0	6.1	4.9	5.4
28	19.4	16.8	18.0	9.8	8.5	9.3	3.9	2.2	3.1	5.4	4.1	4.7
29	19.1	17.8	18.3	9.7	7.9	8.8	5.5	2.8	4.0	4.7	3.2	4.1
30	19.2	16.8	17.9	11.0	8.9	9.6	7.5	5.5	6.5	5.3	4.5	4.9
31	18.9	16.9	17.8	---	---	---	8.5	6.8	7.7	6.6	5.0	5.8
MONTH	20.0	10.3	16.5	18.8	7.2	11.7	14.0	0.9	7.3	13.1	0.0	6.8

0351706800 CHEOAH RIVER NEAR BEARPEN GAP NEAR TAPOCO, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.0	6.5	6.4	3.8	5.0	14.0	11.8	12.8	16.1	11.6	13.6
2	6.7	5.6	6.1	5.6	2.5	4.0	13.1	8.5	10.0	14.5	10.2	12.4
3	6.4	6.0	6.2	6.1	2.8	4.4	12.0	7.8	9.6	15.3	9.8	12.4
4	6.9	5.2	6.0	7.0	3.3	5.3	12.9	8.2	10.5	15.1	9.7	12.3
5	6.3	4.1	5.4	8.9	6.3	7.4	14.5	9.6	11.9	12.8	11.2	11.7
6	7.2	4.6	6.0	9.5	5.9	7.7	14.8	11.2	13.0	16.9	11.3	13.6
7	8.0	5.9	6.9	8.4	5.6	7.2	14.8	12.8	13.6	17.7	11.9	14.7
8	8.8	7.9	8.3	8.4	5.2	6.8	15.3	12.5	13.8	18.5	12.8	15.6
9	9.8	8.5	9.1	6.8	4.0	5.4	17.5	12.6	14.9	19.3	14.3	16.7
10	9.3	4.6	6.9	8.1	5.0	6.6	18.2	13.2	15.6	17.1	15.1	15.7
11	4.9	2.8	4.0	7.4	5.9	6.6	17.1	14.0	15.7	20.4	14.3	16.9
12	5.9	2.8	4.4	10.0	5.5	7.6	15.9	14.2	14.8	21.5	15.7	18.4
13	6.1	4.6	5.2	12.6	8.4	10.4	14.6	13.2	13.8	20.2	16.8	18.6
14	7.6	6.1	6.8	11.0	8.5	9.7	16.1	11.6	13.6	19.2	17.4	18.3
15	9.2	6.7	7.9	9.5	6.4	8.1	16.0	10.6	13.3	17.9	15.9	17.1
16	9.4	8.5	8.9	8.4	7.2	7.6	16.1	11.2	13.6	19.2	13.7	16.3
17	8.5	5.8	7.3	7.2	6.6	6.9	15.9	10.5	13.2	20.1	13.8	16.8
18	6.3	3.8	5.1	9.8	6.1	7.7	17.1	11.4	14.2	20.0	15.2	17.5
19	6.1	3.6	5.1	8.6	6.1	7.6	17.1	12.6	15.0	21.4	16.1	18.6
20	6.5	5.7	6.1	11.7	7.5	9.4	18.4	13.2	15.7	19.0	14.8	16.1
21	8.6	6.5	7.7	10.7	7.7	9.4	16.3	13.4	14.9	18.9	14.2	16.2
22	11.0	8.4	9.5	10.2	8.2	9.4	15.5	13.8	14.7	18.8	15.1	16.9
23	10.3	7.8	9.2	12.0	9.7	10.7	14.8	11.2	13.1	19.5	16.4	17.8
24	10.6	9.2	9.7	13.1	9.5	11.1	11.2	8.7	9.8	18.4	15.3	16.7
25	9.7	7.4	8.5	14.1	9.5	11.7	13.7	7.9	10.6	17.5	13.3	15.4
26	8.5	5.4	7.1	14.6	10.6	12.5	12.2	9.8	11.1	19.2	13.0	15.9
27	7.4	6.2	6.9	14.4	12.4	13.3	12.4	9.7	11.1	20.4	14.5	17.2
28	7.4	6.4	6.9	13.3	9.6	11.2	11.2	9.1	10.4	19.7	15.3	17.3
29	---	---	---	13.4	9.0	11.0	13.6	10.5	11.9	17.0	14.3	15.2
30	---	---	---	14.6	9.6	12.1	14.6	13.0	13.7	17.3	14.5	15.6
31	---	---	---	13.7	12.1	12.7	---	---	---	18.8	15.1	16.9
MONTH	11.0	2.8	6.9	14.6	2.5	8.6	18.4	7.8	13.0	21.5	9.7	15.9
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.7	16.3	16.9	26.2	21.8	23.7	25.3	20.8	22.8	25.2	20.5	22.6
2	18.4	15.5	16.8	25.5	20.8	22.9	26.2	21.1	23.3	25.3	21.6	23.3
3	17.8	16.5	17.1	23.2	21.2	21.9	26.2	21.0	23.5	25.5	21.9	23.5
4	22.1	16.2	18.8	23.9	20.2	22.0	26.8	21.4	23.9	24.7	20.6	22.6
5	22.7	17.8	20.2	24.8	20.5	22.6	24.8	21.6	23.2	24.8	21.0	22.7
6	24.5	18.7	20.9	22.7	20.8	21.5	25.2	21.1	22.9	24.3	20.6	22.4
7	21.2	17.5	19.2	20.8	18.0	18.9	23.0	20.3	21.4	24.4	20.3	22.1
8	19.8	17.7	18.7	22.0	17.3	19.3	22.4	19.9	20.9	24.5	20.3	22.3
9	20.2	17.4	18.6	22.0	18.0	19.9	24.2	20.3	22.2	24.5	20.5	22.3
10	21.3	18.0	19.4	21.8	19.3	20.4	26.4	21.3	23.5	24.3	20.2	22.1
11	19.7	18.3	19.0	21.2	19.7	20.3	26.9	21.7	23.9	24.5	20.7	22.4
12	19.3	18.5	18.9	21.1	19.0	20.0	26.9	21.6	24.0	24.4	20.7	22.5
13	21.1	18.1	19.2	20.3	19.2	19.7	26.1	22.2	23.8	24.4	20.7	22.5
14	23.3	18.1	20.3	20.2	19.0	19.6	26.0	21.2	23.3	24.2	20.6	22.4
15	24.2	19.2	21.3	21.9	19.0	20.3	27.3	21.9	24.3	25.1	21.3	23.1
16	23.1	18.4	20.6	22.5	20.0	21.1	27.6	22.5	24.8	23.5	21.9	22.6
17	23.0	18.0	20.3	24.0	20.2	21.7	27.4	23.3	25.1	25.7	21.5	23.4
18	21.4	16.7	19.1	24.0	20.2	21.9	27.7	23.0	24.7	24.9	22.1	23.4
19	21.4	17.2	19.3	24.0	20.7	21.9	26.3	22.1	23.9	24.0	20.2	22.1
20	20.1	16.9	18.3	25.4	19.8	22.2	27.9	22.8	25.0	24.3	20.8	22.6
21	20.7	16.0	18.0	26.0	21.3	23.4	28.2	23.6	25.7	24.7	21.1	22.9
22	22.1	17.3	19.5	25.9	21.9	23.6	27.2	23.6	25.2	24.9	21.5	23.2
23	24.1	18.2	20.9	26.8	21.5	23.9	26.0	23.3	24.4	24.6	21.6	23.1
24	24.6	19.2	21.8	26.3	21.6	23.9	27.9	22.6	25.0	24.5	21.3	23.0
25	24.8	20.0	22.3	27.5	22.0	24.5	25.6	23.3	24.2	25.0	22.1	23.2
26	22.9	20.7	21.7	28.0	22.8	25.2	24.7	21.7	23.1	23.0	21.8	22.3
27	25.2	20.0	22.3	28.0	23.1	25.3	24.6	21.9	23.2	24.1	20.9	22.3
28	23.4	20.3	22.0	25.6	21.1	23.5	25.0	21.6	23.3	23.0	20.7	22.0
29	25.0	19.7	22.1	23.2	20.5	21.6	23.8	21.9	22.9	22.4	19.7	21.3
30	26.4	21.2	23.5	23.8	20.7	22.1	23.0	21.5	22.3	21.1	17.9	19.6
31	---	---	---	24.5	21.0	22.6	25.6	21.2	22.9	---	---	---
MONTH	26.4	15.5	19.9	28.0	17.3	22.0	28.2	19.9	23.6	25.7	17.9	22.5

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC

LOCATION.--Lat 35°02'24", long 83°57'33", Clay County, Hydrologic Unit 06020002, on right bank 20 ft upstream from bridge on Secondary Road 1134, 0.1 mi northwest of Brasstown, and 0.8 mi above mouth.

DRAINAGE AREA.--83.1 mi^2.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1944, 1947, 1953-55, 1960-64, 1988. July 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,581.70 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred Sept. 20, 2000. Minimum discharge for current water year also occurred Sept. 26.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	97	84	200	122	109	214	290	182	132	172	178	119
2	92	122	155	120	117	188	420	161	159	179	142	106
3	92	685	143	119	163	176	326	152	126	128	124	99
4	87	537	134	117	133	166	272	146	118	189	122	93
5	83	274	128	116	123	162	241	145	113	152	121	88
6	80	182	1,340	122	118	153	219	145	148	129	115	85
7	78	146	1,010	117	115	158	258	138	159	441	225	83
8	76	128	416	120	113	330	299	134	140	244	275	81
9	75	115	453	114	113	208	254	131	139	170	201	79
10	75	108	395	112	111	187	226	129	123	144	179	77
11	74	108	348	111	106	174	211	127	119	283	161	74
12	74	350	275	110	105	164	208	123	468	635	139	73
13	97	207	235	188	110	156	235	129	533	309	142	72
14	81	158	204	403	192	172	236	122	264	277	139	71
15	77	138	186	191	147	153	202	145	188	266	123	69
16	73	128	174	160	136	190	188	133	155	198	115	79
17	71	120	166	143	127	194	180	124	137	173	110	78
18	71	115	159	132	120	178	175	120	130	156	172	72
19	119	110	153	128	116	166	170	117	136	144	150	69
20	98	107	144	126	150	158	165	264	137	140	110	68
21	83	104	140	124	1,460	152	161	184	138	131	101	66
22	79	104	139	120	677	181	171	144	120	125	99	65
23	75	122	209	114	334	389	171	133	112	119	97	65
24	76	669	169	111	315	252	160	125	107	114	124	63
25	74	408	154	113	241	216	153	118	103	110	118	61
26	72	241	145	113	208	194	155	114	103	107	97	70
27	71	192	137	109	190	199	165	111	112	103	93	75
28	77	174	133	104	251	335	150	110	162	103	89	67
29	84	151	130	119	---	253	149	109	149	337	95	67
30	78	140	128	128	---	220	234	116	146	200	280	67
31	92	---	125	114	---	329	---	111	---	174	158	---
TOTAL	2,531	6,227	8,027	4,140	6,200	6,367	6,444	4,242	4,876	6,152	4,394	2,301
MEAN	81.6	208	259	134	221	205	215	137	163	198	142	76.7
MAX	119	685	1,340	403	1,460	389	420	264	533	635	280	119
MIN	71	84	125	104	105	152	149	109	103	103	89	61
CFSM	0.98	2.50	3.12	1.61	2.66	2.47	2.58	1.65	1.96	2.39	1.71	0.92
IN.	1.13	2.79	3.59	1.85	2.78	2.85	2.88	1.90	2.18	2.75	1.97	1.03

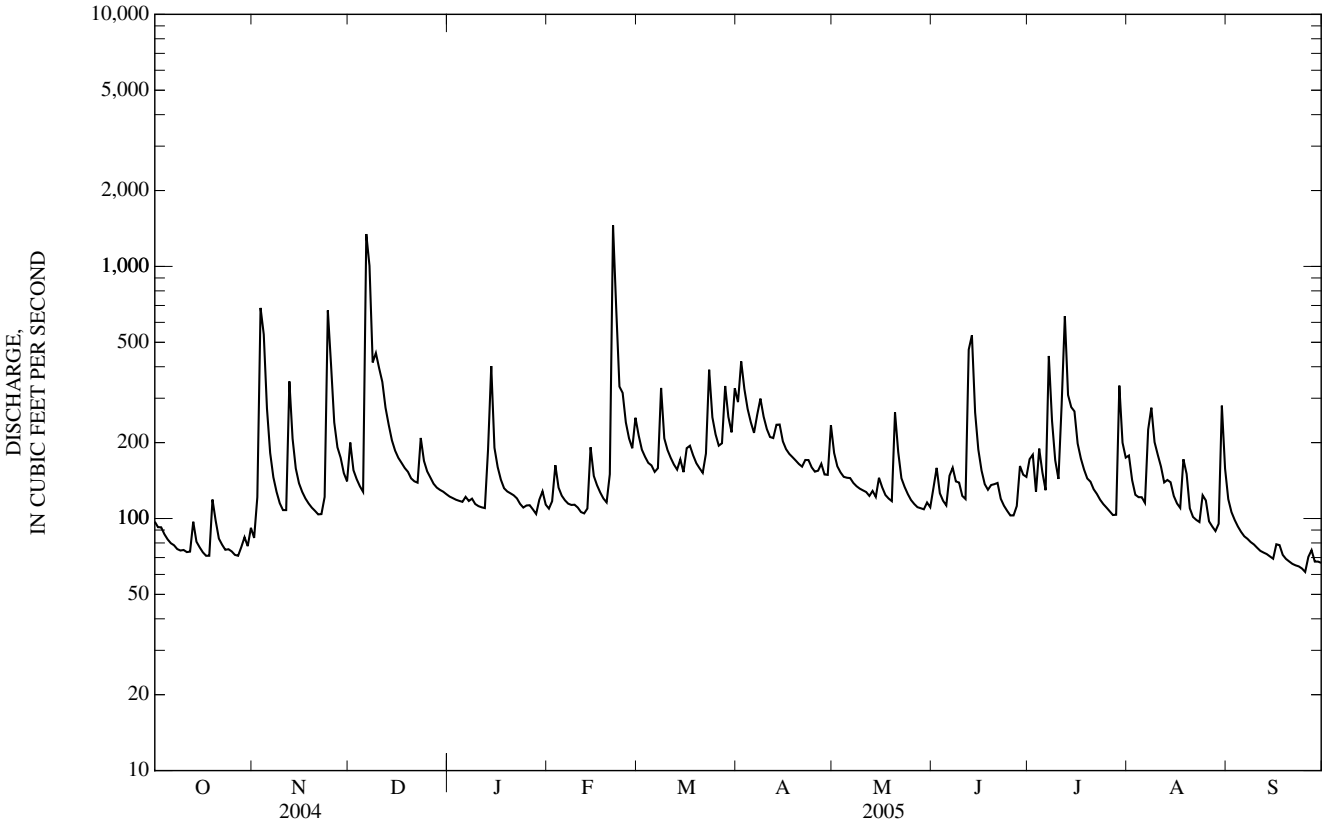
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	57.1	103	120	119	151	146	145	169	112	106	70.8	93.9
MAX	81.6	208	259	150	221	205	215	403	163	198	142	226
(WY)	(2005)	(2005)	(2005)	(2002)	(2005)	(2005)	(2005)	(2003)	(2005)	(2005)	(2005)	(2004)
MIN	27.2	41.2	46.8	94.5	98.2	113	88.1	60.3	61.2	47.9	33.1	30.7
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)	(2004)	(2001)	(2001)	(2002)	(2000)	(2000)	(2000)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	49,042		61,901			
ANNUAL MEAN	134		170		118	
HIGHEST ANNUAL MEAN					170	2005
LOWEST ANNUAL MEAN					72.5	2001
HIGHEST DAILY MEAN	2,430	Sep 17	1,460	Feb 21	2,540	May 7, 2003
LOWEST DAILY MEAN	33	Apr 12	61	Sep 25	18	Sep 16, 2000
ANNUAL SEVEN-DAY MINIMUM	45	Aug 14	65	Sep 19	19	Sep 14, 2000
MAXIMUM PEAK FLOW			4,350	Dec 6	4,570	May 7, 2003
MAXIMUM PEAK STAGE			14.55	Dec 6	14.94	May 7, 2003
INSTANTANEOUS LOW FLOW			58*	Sep 25	17*	Sep 16, 2000
ANNUAL RUNOFF (CFSM)	1.61		2.04		1.42	
ANNUAL RUNOFF (INCHES)	21.95		27.71		19.36	
10 PERCENT EXCEEDS	202		273		194	
50 PERCENT EXCEEDS	92		136		92	
90 PERCENT EXCEEDS	57		78		43	

* See REMARKS.

03548330 BRASSTOWN CREEK NEAR BRASSTOWN, NC—Continued



03550000 VALLEY RIVER AT TOMOTLA, NC

LOCATION.--Lat 35°08'20", long 83°58'50", Cherokee County, Hydrologic Unit 06020002, on right bank at site of former bridge on Secondary Road 1473 at Tomotla, 600 ft upstream from bridge on U.S. Highways 19 and 74, 0.2 mi upstream from Rogers Creek, 4.7 mi northeast of Murphy, and at mile 6.6.

DRAINAGE AREA.--104 mi^2.

PERIOD OF RECORD.--June 1904 to December 1909, January 1914 to April 1917, October 1918 to current year.

REVISED RECORDS.--WSP 503: 1905-9, 1915-17. WSP 823: Drainage area. WSP 1306: 1917(M), 1920(M), 1922(M), 1925(M), 1930(M), 1933(M). WSP 1626: 1907(M). WDR NC-97-1: 1979-1994(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 1,556.46 ft above NGVD of 1929 (levels by Tennessee Valley Authority). Prior to May 11, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Maximum discharge for period of record, from flood profile by Tennessee Valley Authority, from rating curve extended above 5,800 ft^3/s on basis of slope-conveyance study. Minimum discharge for period of record occurred several days in Aug. and Sept. 1925. Minimum discharge for current water year also occurred Sept. 26.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1898 reached a stage of 21.2 ft, from floodmark by Tennessee Valley Authority; discharge, about 20,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	78	714	229	202	380	401	331	197	139	157	169
2	100	123	554	222	216	343	853	297	232	144	165	146
3	97	327	450	217	342	322	747	276	195	150	172	132
4	92	526	386	212	295	304	626	258	180	142	189	121
5	88	335	340	207	267	296	527	252	167	134	156	115
6	85	226	1,120	217	247	278	459	244	333	124	148	110
7	83	184	1,750	208	233	293	454	230	401	419	193	105
8	81	159	1,110	269	227	731	488	219	241	244	194	102
9	79	142	1,180	236	221	523	426	211	207	182	170	97
10	79	133	1,240	222	218	439	391	216	187	212	170	94
11	77	137	969	215	203	392	364	208	180	262	141	91
12	78	471	757	209	197	355	360	197	274	386	129	88
13	124	390	634	255	210	330	396	191	446	600	228	85
14	89	279	530	496	390	329	364	185	319	565	258	83
15	86	230	459	349	348	299	334	199	254	414	173	81
16	81	201	415	306	349	345	313	186	217	320	160	135
17	77	182	382	273	316	409	298	175	194	276	169	109
18	76	168	354	251	288	376	288	167	261	237	183	90
19	137	158	333	242	268	348	276	162	273	209	195	83
20	113	152	309	233	319	326	265	685	243	198	193	79
21	92	142	295	228	1,080	306	256	451	233	224	167	72
22	86	138	287	220	1,000	333	287	322	197	200	144	66
23	82	335	396	208	646	614	323	274	175	172	157	65
24	87	2,060	334	196	563	493	273	243	161	155	139	63
25	83	1,580	307	197	459	426	257	222	153	146	150	61
26	79	831	290	197	403	380	267	207	157	137	134	87
27	78	579	273	188	366	361	281	195	144	130	125	103
28	77	486	259	181	411	521	253	188	142	127	120	76
29	93	395	250	215	---	452	250	181	148	159	119	74
30	84	367	244	241	---	411	367	182	158	190	340	72
31	81	---	235	211	---	428	---	173	---	153	225	---
TOTAL	2,747	11,514	17,156	7,350	10,284	12,143	11,444	7,527	6,669	7,150	5,363	2,854
MEAN	88.6	384	553	237	367	392	381	243	222	231	173	95.1
MAX	137	2,060	1,750	496	1,080	731	853	685	446	600	340	169
MIN	76	78	235	181	197	278	250	162	142	124	119	61
CFSM	0.85	3.69	5.32	2.28	3.53	3.77	3.67	2.33	2.14	2.22	1.66	0.91
IN.	0.98	4.12	6.14	2.63	3.68	4.34	4.09	2.69	2.39	2.56	1.92	1.02

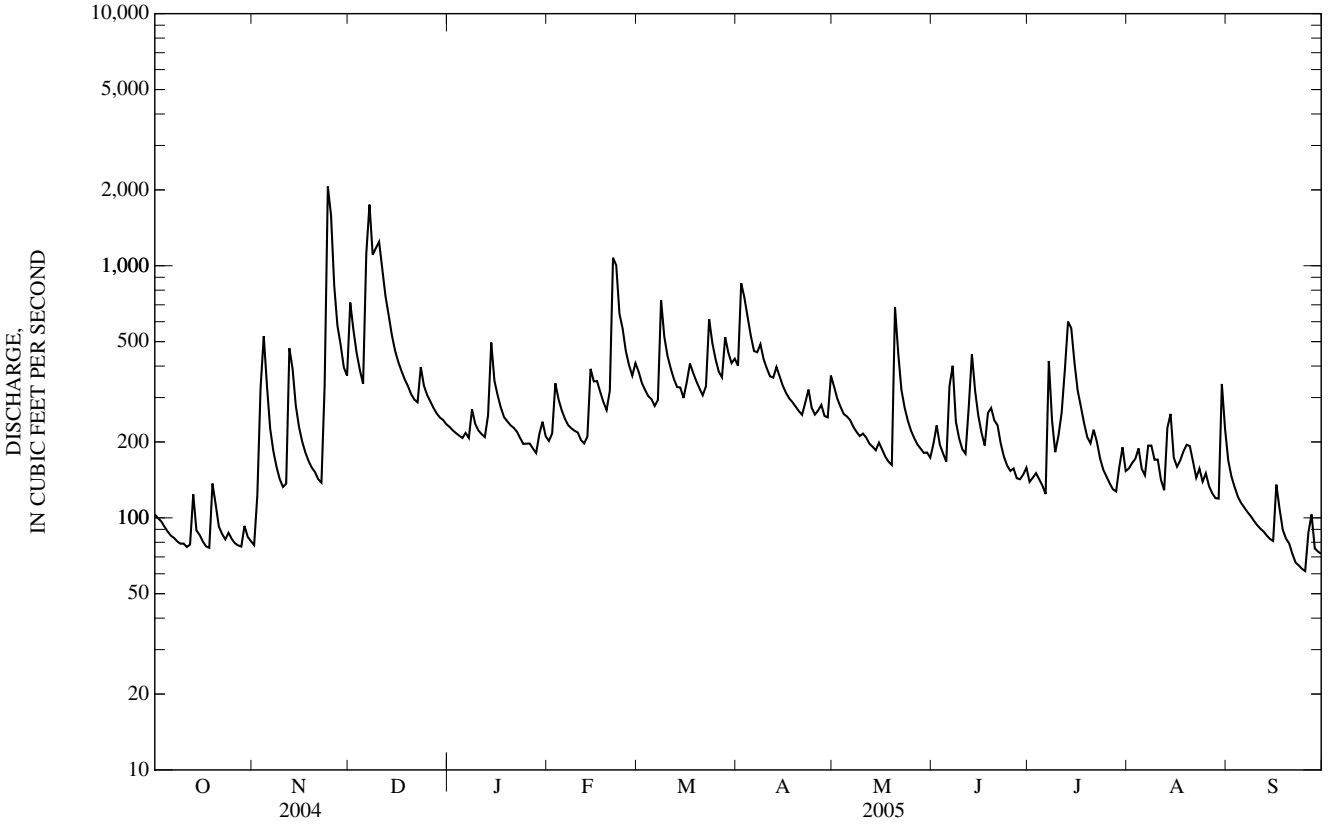
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1904 - 2005, @BY WATER YEAR (WY)

MEAN	98.8	162	291	393	451	455	365	264	191	170	136	104
MAX	442	685	1,045	936	1,022	1,379	835	755	607	443	563	434
(WY)	(1907)	(1930)	(1933)	(1974)	(1957)	(1917)	(1936)	(1929)	(1989)	(1949)	(1920)	(1928)
MIN	25.2	38.6	57.4	69.9	92.7	155	135	88.9	44.8	42.4	24.6	21.3
(WY)	(1955)	(1934)	(1934)	(1981)	(1941)	(1988)	(1986)	(1941)	(1988)	(1988)	(1925)	(1925)

03550000 VALLEY RIVER AT TOMOTLA, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1904 - 2005[@]	
ANNUAL TOTAL	91,123		102,201			
ANNUAL MEAN	249		280		256	
HIGHEST ANNUAL MEAN					379	1922
LOWEST ANNUAL MEAN					111	1988
HIGHEST DAILY MEAN	2,060	Nov 24	2,060	Nov 24	8,190	Feb 16, 1995
LOWEST DAILY MEAN	60	Sep 6	61	Sep 25	12	Aug 27, 1925
ANNUAL SEVEN-DAY MINIMUM	68	Aug 31	70	Sep 19	13	Aug 24, 1925
MAXIMUM PEAK FLOW			3,440	Nov 24	18,000*	Nov 19, 1906
MAXIMUM PEAK STAGE			9.50	Nov 24	20.50	Nov 19, 1906
INSTANTANEOUS LOW FLOW			58*	Sep 25	12*	Aug 27, 1925
ANNUAL RUNOFF (CFSM)	2.39		2.69		2.46	
ANNUAL RUNOFF (INCHES)	32.59		36.56		33.44	
10 PERCENT EXCEEDS	416		464		496	
50 PERCENT EXCEEDS	192		222		179	
90 PERCENT EXCEEDS	84		88		60	

[@] See PERIOD OF RECORD.
* See REMARKS.



LAKES AND RESERVOIRS IN OHIO RIVER BASIN

03514500 FONTANA LAKE

LOCATION.--Lat 35°27'07", long 83°48'18", Graham County, Hydrologic Unit 06010202, at Fontana Dam on Little Tennessee River, 9.6 mi upstream from Cheoah Dam, 5.7 mi upstream from Twenty Mile Creek, 9.0 mi north of Robbinsville, and at river mile 61.0.

DRAINAGE AREA.--1,571 mi^2.

PERIOD OF RECORD.--October 1944 to current year. Prior to November 1944, monthend content only, published in WSP 1306.

GAGE.--Water-stage recorder. Datum of gage is sea level.

REMARKS.--Reservoir is formed by gravity, nonoverflow-type concrete dam. Spillway is equipped with four radial gates 35 ft high by 35 ft wide. Filling began Nov. 7, 1944; dam completed March 1945; water in reservoir first reached minimum pool elevation Jan. 16, 1945. Total capacity (based on 1967 resurvey) is 727,500 ft^3/s-day, at 1,710.0 ft (top of gate) of which 476,900 ft^3/s-day is controlled storage above 1,580.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 728,600 ft^3/s-day, May 28, 1973; elevation, 1,710.20 ft. Minimum content observed (after first filling): 78,300 ft^3/s-day, Jan. 29, 1955; elevation, 1,472.0 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 710,200 ft^3/s-day, June 15; elevation, 1,706.76 ft. Minimum content observed: 449,800 ft^3/s-day, Jan. 30; elevation, 1,648.04 ft.

03546500 CHATUGE LAKE

LOCATION.--Lat 35°01'04", long 83°47'27", Clay County, Hydrologic Unit 06020002, at Chatuge Dam on Hiwassee River, 2.0 mi upstream from Hyatt Mill Creek, 2.5 mi downstream from Georgia-North Carolina Stateline, 2.4 mi southeast of Hayesville, and at river mile 121.0.

DRAINAGE AREA.--189 mi^2.

PERIOD OF RECORD.--February 1942 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. Prior to Aug. 4, 1942, nonrecording gage at same site and datum.

REMARKS.--Reservoir is formed by a rolled, earthfill dam with side-channel spillway equipped with flashboards. Dam completed and filling began Feb. 12, 1942; water in reservoir first reached minimum pool elevation Feb. 26, 1942. Total capacity (based on 1965 resurvey) is 121,200 ft^3/s-day, at 1,928.0 ft (top of flashboard), of which 61,700 ft^3/s-day is controlled storage above 1,905.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION--Records furnished by Tennessee Valley Authority. (See station 03548500.)

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 124,200 ft^3/s-day, Apr. 20, 1943; elevation, 1,927.80 ft. Minimum content observed (after first filling): 9,400 ft^3/s-day, Sept. 5, 1947, and Jan. 27, 1956; elevation, 1,860.11 ft, Sept. 5, 1947.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 118,000 ft^3/s-day, June 14; elevation, 1,927.08 ft. Minimum content observed: 85,800 ft^3/s-day, Feb. 18; elevation, 1,916.56 ft.

03554500 HIWASSEE LAKE

LOCATION.--Lat 35°09'01", long 84°10'40", Cherokee County, Hydrologic Unit 06020002, at Hiwassee Dam on Hiwassee River, 3.9 mi upstream from Shoal Creek, 0.3 mi northwest of village of Hiwassee Dam, and at river mile 75.8.

DRAINAGE AREA.--968 mi^2.

PERIOD OF RECORD.--September 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 0.63 ft below sea level.

REMARKS--Reservoir is formed by gravity overflow concrete dam with seven taintor gates 23 ft high by 32 ft wide. Slight filling began Apr. 13, 1939, during construction; systematic filling operation began Jan. 14, 1940; dam completed February 1940; water in reservoir and first reached minimum pool elevation Feb. 23, 1940. Total capacity (based on 1965 resurvey) is 218,800 ft^3/s-day at 1,526.5 ft (top of gate), of which 154,300 ft^3/s-day is controlled storage above 1,450.0 ft, normal minimum pool elevation. Reservoir is used for navigation, floodcontrol, and power. New capacity table put into use Jan. 1, 1971.

COOPERATION.--Records furnished by Tennessee Valley Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum content observed: 223,400 ft^3/s-day, May 28, 1973; elevation, 1,528.02 ft. Minimum content observed (after first filling): 35,800 ft^3/s-day, Jan. 28, 1948; elevation, 1,413.41 ft.

EXTREMES FOR CURRENT YEAR.--Maximum content observed: 211,800 ft^3/s-day, June 21; elevation, 1,524.35 ft. Minimum content observed: 104,600 ft^3/s-day, Feb. 14; elevation, 1,478.99 ft.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

OTHER RESERVOIRS

The following reservoirs in the Tennessee River basin are described below. Records of content are not published herein.

03447832 LAKE JULIAN

LOCATION.--Lat 35°28'37", long 82°32'51", Buncombe County, Hydrologic Unit 06010105, on Powell Creek near Skyland.

DRAINAGE AREA.--4.78 mi^2.

PERIOD OF RECORD.--Prior to November 1967 published as Asheville Steam-Electric Generating Plant Lake.

REMARKS.--Total capacity is 4,540 ft^3/s-day, of which 2,120 ft^3/s-day is controlled storage. Filling began Mar. 27, 1963, and lake reached spillway elevation, 2,160 ft, June 3, 1963. Most of initial storage and occasional, supplemental storage provided by pumped diversion from French Broad River. Lake is a cooling-water reservoir for Carolina Power and Light Co. plant.

03448959 BURNETT LAKE

LOCATION.--Lat 35°39'41", long 82°20'45", Buncombe County, Hydrologic Unit 06010105, on North Fork Swannanoa River near Black Mountain.

DRAINAGE AREA.--22 mi^2.

REMARKS.--Total capacity at crest of spillway is 11,600 ft^3/s-day, of which 8,900 ft^3/s-day is controlled storage. Filling began Jan. 28, 1954. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03450134 BEETREE RESERVOIR

LOCATION.--Lat 35°38'28", long 82°24'04", Buncombe County, Hydrologic Unit 06010105, on Beetree Creek near Swannanoa.

DRAINAGE AREA.-7.62 mi^2.

REMARKS.--Total capacity is 844 ft^3/s-day, of which 823 ft^3/s-day is controlled storage. Dam completed December 1926, and filling began Jan. 11, 1927; water in reservoir first reached maximum pool elevation Mar. 8, 1927. Lake is part of Asheville's municipal water supply. (See station 03451000.)

03455773 LAKE LOGAN

LOCATION.--Lat 35°25'17", long 82°55'29", Haywood County, Hydrologic Unit 06010106, on West Fork Pigeon River near Canton and at river mile 7.0.

DRAINAGE AREA.--33.3 mi^2.

REMARKS.--Total capacity is 1,040 ft^3/s-day (top of flashboards), all of which is usable. Filling began November 1931. (See station 0345577330.)

03458319 LAKE JUNALUSKA

LOCATION.--Lat 35°31'39", long 82°57'49", Haywood County, Hydrologic Unit 06010106, on Richland Creek at Lake Junaluska and at river mile 2.4.

DRAINAGE AREA.--63.6 mi^2.

REMARKS.--Total surface area is about 195 acres. The lake reached spillway elevation in the spring of 1913.

03460242 WATERVILLE LAKE

LOCATION.--Lat 35°41'41", long 83°03'02", Haywood County, Hydrologic Unit 06010106, at Waterville Dam on Pigeon River, 0.1 mi downstream from Cataloochee Creek, 5.5 mi southeast of Mount Sterling, and at river mile 38.0.

DRAINAGE AREA.--455 mi^2.

PERIOD OF RECORD.--October 1961 to current year. Prior to October 1979, published as Lake Walters.

REMARKS.--Reservoir is formed by a single-arch, variable-radius, concrete dam with 14 taintor gates 10 ft high by 24 ft wide. Dam was completed in 1929 and filling began October 1929; water in reservoir first reached minimum pool elevation November 1929. Total capacity is 12,800 ft^3/s-day at 2,258.60 ft (top of gate), of which 10,400 ft^3/s-day is controlled storage above 2,175 ft, normal minimum pool elevation. Reservoir is used for power. Prior to Jan. 1, 1971, records furnished by Carolina Power and Light Co. New capacity table was put into use Jan. 1, 1971.

03500466 SEQUOYAH LAKE

LOCATION.--Lat 35°04'02", long 83°13'31", Macon County, Hydrologic Unit 06010202, on Cullasaja River near Highlands, and at river mile 18.4.

DRAINAGE AREA.--14.4 mi^2.

REMARKS.--Total capacity is 233 ft^3/s-day (at crest of spillway), of which approximately 116 ft^3/s-day is usable. Filling began in 1926.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN-Continued

03504500 NANTAHALA LAKE

LOCATION.--Lat 35°11'58", long 83°39'05", Macon County, Hydrologic Unit 06010202, at Nantahala Dam on Nantahala River, 5.5 mi upstream from Whiteoak Creek, 4.2 mi southeast of Topton, and at river mile 22.8.

DRAINAGE AREA.--91.0 mi^2.

PERIOD OF RECORD.--January 1942 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by rockfill dam with side-channel, gate-controlled spillway supplemented by fuse-plug dam. Dam completed and filling began Jan. 30, 1942; water in reservoir first reached minimum pool elevation Feb. 16, 1942. Total capacity (based on 1969 resurvey) is 69,200 ft^3/s-day at 2,890.0 ft (top of gates), of which 63,500 ft^3/s-day is controlled storage above 2,758.84 ft, normal minimum pool elevations. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03507111; 03507131 EAST FORK LAKE AND WOLF CREEK LAKE

These two reservoirs are operated as a unit for storage of water for the Tennessee Creek Project.

EAST FORK DAM

LOCATION.--Lat 35°12'49", long 83°00'07", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--25.1 mi^2.

REMARKS.--Total capacity of East Fork Lake is 671 ft^3/s-day, of which 625 ft^3/s-day is controlled storage. Filling began April 18, 1955.

WOLF CREEK DAM

LOCATION.--Lat 35°13'18", long 83°00'00", Jackson County, Hydrologic Unit 06010203, on Wolf Creek near Tuckasegee.

DRAINAGE AREA.--15.2 mi^2.

REMARKS.--Total capacity of Wolf Creek Lake is 5,070 ft^3/s-day, of which 3,850 ft^3/s-day is controlled storage. Filling began Mar. 22, 1955.

03507216 BEAR CREEK LAKE

LOCATION.--Lat 35°14'27", long 83°04'23", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee.

DRAINAGE AREA.--74.8 mi^2.

REMARKS.--Total capacity is 17,500 ft^3/s-day, of which 2,290 ft^3/s-day is controlled storage. Filling began Oct. 9, 1953.

03507289 CEDAR CLIFF LAKE

LOCATION.--Lat 35°15'12", long 83°05'58", Jackson County, Hydrologic Unit 06010203, on Tuckasegee River near Tuckasegee and at river mile 51.9.

DRAINAGE AREA.--80.3 mi^2.

REMARKS.--Total capacity is 3,200 ft^3/s-day, of which 350 ft^3/s-day is controlled storage. Filling began Apr. 26, 1952.

03507500 THORPE RESERVOIR

LOCATION.--Lat 35°11'46", long 83°09'10", Jackson County, Hydrologic Unit 06010203, at Thorpe Dam on West Fork Tuckasegee River, 3.0 mi upstream from Shoal Creek, and 2.3 mi northwest of Glenville, and at river mile 9.7.

DRAINAGE AREA.--36.7 mi^2.

PERIOD OF RECORD.--February 1941 to September 1995. Prior to October 1944 monthend content only, published in WSP 1306. Prior to October 1948, published as Glenville Reservoir.

REMARKS.--Reservoir is formed by earth and rock dam and six 40 ft fuse-plug dams with side-channel spillway equipped with two taintor gates 12 ft high by 25 ft wide. Dam completed and storage began Feb. 12, 1941. Water in reservoir first reached minimum pool elevation Mar. 15, 1941. Total capacity (based on 1969 resurvey) is 35,500 ft^3/s-day, at 3,100.0 ft (top of gate), of which 33,700 ft^3/s-day is controlled storage above 3,023.25 ft, normal minimum pool elevation. Reservoir is used for flood control and power. New capacity table put into use Jan. 1, 1971.

03515152 CHEOAH LAKE

LOCATION.--Lat 35°26'54", long 83°56'11", Graham County, Hydrologic Unit 06010202, on Little Tennessee River at Cheoah and at river mile 51.4.

DRAINAGE AREA.--1,608 mi^2.

REMARKS.--Total capacity is 17,700 ft^3/s-day, of which 920 ft^3/s-day is controlled storage. Filling began Dec. 8, 1918.

03516500 SANTEETLAH LAKE

LOCATION.--Lat 35°22'38", long 83°52'33", Graham County, Hydrologic Unit 06010204, at Santeetlah Dam on Cheoah River, 1.0 mi downstream from Santeetlah Creek, 5.5 mi northwest of Robbinsville, and at river mile 9.3.

DRAINAGE AREA.--176 mi^2.

PERIOD OF RECORD.--December 1927 to September 1995. Prior to October 1946 monthend content only, published in WSP 1306.

REMARKS.--Reservoir is formed by concrete gravity and arch dam with concrete spillway controlled by six taintor gates 12 ft high by 25 ft wide. Dam completed and filling began Dec. 7, 1927. Water in reservoir first reached minimum pool elevation December 1927. Total capacity (new capacity table put into use Jan. 1, 1971) is 78,800 ft^3/s-day (top of gate) at elevation 1,817.0 ft, of which 66,600 ft^3/s-day is controlled storage above 1,740.08 ft, normal minimum pool elevation. Reservoir is used for power.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

03555500 APPALACHIA LAKE

LOCATION.--Lat 35°10'04", long 84°17'49", Cherokee County, Hydrologic Unit 06020002, at Appalachia Dam on Hiwassee River, 9.8 mi downstream from Hiwassee Dam, 0.1 mi upstream from North Carolina-Tennessee State line, 1.5 mi northeast of Farner, Tennessee, and at river mile 66.0.

DRAINAGE AREA.--1,018 mi^2.

PERIOD OF RECORD.--February 1943 to September 1995.

REMARKS.--Reservoir is formed by concrete gravity dam. Spillway is equipped with 10 radial gates. Dam completed and filling began Feb. 14, 1943; water in reservoir first reached minimum pool elevation Feb. 21, 1943. Total capacity (based on 1965 resurvey) is 29,100 ft^3/s-day at 1,280.0 ft (top of gate), of which 4,400 ft^3/s-day is controlled storage above 1,272.0 ft, normal minimum pool elevation. Reservoir is used for navigation, flood control, and power. New capacity table put into use Jan. 1, 1971.

LAKES AND RESERVOIRS IN OHIO RIVER BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03514500 Fontana Lake			03546500 Chatuge Lake	
Sept. 30	1,696.65	658,200	---	1,923.35	105,500	---
Oct. 31	1,683.83	597,100	-61,100	1,919.33	93,400	-12,100
Nov. 30	1,671.88	544,400	-52,700	1,920.24	96,000	2,600
Dec. 31	1,658.84	491,000	-53,400	1,919.04	92,600	-3,400
CAL YR 2004		---	35,800		---	15,100
Jan. 31	1,648.27	450,600	-40,400	1,917.66	88,700	-3,900
Feb. 28	1,656.67	482,500	31,900	1,918.27	90,400	1,700
Mar. 31	1,667.74	527,000	44,500	1,920.60	97,100	6,700
Apr. 30	1,690.49	628,200	101,200	1,924.41	108,900	11,800
May 31	1,703.20	691,500	63,300	1,925.98	114,200	5,300
June 30	1,703.49	693,100	1,600	1,925.41	112,200	-2,000
July 31	1,703.12	691,100	-2,000	1,925.37	112,100	-100
Aug. 31	1,700.95	679,900	-11,200	1,924.71	109,900	-2,200
Sept. 30	1,683.85	597,200	-82,700	1,921.09	98,600	-11,300
WTR YR 2005		---	-61,000		---	-6,900

Date	Elevation (feet)	Contents (cfs-days)	Change in contents (cfs-days)
		03554500 Hiwasee Lake	
Sep. 30	1,507.15	163,700	---
Oct. 31	1,498.05	141,700	-22,000
Nov. 30	1,497.61	140,700	-1,000
Dec. 31	1,487.81	120,300	-20,500
CAL YR 2004		---	26,600
Jan. 31	1,483.61	112,700	-7,600
Feb. 28	1,487.86	120,400	7,700
Mar. 31	1,496.48	138,200	17,800
Apr. 30	1,512.80	178,100	39,900
May 31	1,520.97	201,100	23,000
June 30	1,521.75	203,500	2,400
July 31	1,521.29	202,100	-1,400
Aug. 31	1,514.14	181,700	-20,400
Sept. 30	1,505.81	160,300	-21,400
WTR YR 2005		---	-3,400

MEASUREMENTS AT MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the U.S. Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to these events. These measurements and others collected for some special reason are called measurements at miscellaneous sites.

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005, IN ATLANTIC SLOPE BASINS						
ROANOKE RIVER BASIN						
02077348 Marlowe Creek	Dan River	Lat 36°29'03", long 78°58'47", Person County, Hydrologic Unit 03010104, at bridge on Secondary Road 1322, downstream of Fishing Branch, and 1.2 mi west of Woodsdale.	17.8	1970, 1974, 1976, 1978, 1980-2003	2-2-05 5-3-05 8-3-05	20.9 19.7 9.08
02079264 Nutbush Creek	Roanoke River	Lat 36°22'10", long 78°24'31", Vance County, Hydrologic Unit 03010102, at bridge on Secondary Road 1317, 0.1 mi upstream from Buggs Island Reservoir, and 3 mi north of Henderson.	6.0	1970, 1974, 1976, 1978-2004	12-9-04 3-18-05 6-6-05 8-1-05	7.62 19.0 6.37 4.15
02079717 Smith Creek	Roanoke River	Lat 36°32'27", long 78°11'43", Warren County, Hydrologic Unit 03010106, at bridge on U.S. Highway 1, 0.3 mi downstream of Blue Mud Creek, and 0.1 mi west of Paschall.	52.9	1954, 1961-63, 1966, 1976, 1979-2004	12-9-04 3-18-05 6-6-05 8-1-05	40.2 188 31.9 3.57
PAMLICO RIVER BASIN						
02081547 Fishing Creek	Tar River	Lat 36°13'22", long 78°34'35", Granville County, Hydrologic Unit 03020101, at bridge on Secondary Road 1643, 2.9 mi upstream from mouth, and 6.3 mi south of Oxford.	44.1	1970-73, 1997-2004	12-9-04 3-18-05 6-6-05 8-1-05	19.6 151 7.33 11.4
0208273350 Sandy Creek	Swift Creek	Lat 36°10'40", long 78°11'29", Franklin County, Hydrologic Unit 03020101, at bridge on Secondary Road 1436, 2 mi southeast of Gupton.	76.2	1997-2004	12-3-04 3-17-05 6-13-05 8-8-05	99.5 168 48.2 24.4
NEUSE RIVER BASIN						
02087251 Crabtree Creek	Neuse River	Lat 35°50'15", long 78°46'52", Wake County, Hydrologic Unit 03020201, at bridge on Secondary Road 1795, 0.3 mi downstream from Hayleys Branch, and 3.5 mi north of Cary.	52.2	1983-91, 1997-2004	10-8-04 2-7-05 5-9-05 8-1-05	40.2 72.4 389 1.36
0208732544 Pigeon House Creek	Crabtree Creek	Lat 35°47'37", long 78°38'35", Wake County, Hydrologic Unit 03020201, at Dortch Street, and 1.2 mi north of Raleigh.	.59	1984-92, 1997-2004	10-1-04 1-31-05 5-4-05 8-1-05	0.52 0.28 0.39 0.73

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		CAPE FEAR RIVER BASIN				
02093250 Haw River	Cape Fear River	Lat 36°12'47", long 79°57'24", Guilford County, Hydrologic Unit 03030002, on Secondary Road 2109, 0.2 mi downstream of Rocky Branch, and 3.3 mi northeast of Oak Ridge.	14.1	1971, 1973, 1984, 1986-2004	12-3-04 3-23-05 7-7-05 8-15-05	9.25 87.0 0 0
02093423 Little Troublesome Creek	Haw River	Lat 36°16'53", long 79°36'37", Rockingham County, Hydrologic Unit 03030002, at bridge on Secondary Road 2600, 0.8 mi west of Thompsonville, and 1 mi upstream from mouth.	12.1[a]	1970-73, 1976-77, 1996-2004	10-7-04 2-4-05 5-4-05 8-5-05	6.33 21.1 7.19 3.60
02095091 South Buffalo Creek	Buffalo Creek	Lat 36°06'45", long 79°40'19", Guilford County, Hydrologic Unit 03030002, at bridge on Secondary Road 2821, 0.8 mi northwest of McLeansville, and 1.4 mi upstream from mouth.	43.5	1969-70, 1973, 1976-81, 1983-89, 1991-2004	12-2-04 3-22-05 8-16-05	54.1 63.2 30.4
02095681 Reedy Fork	Haw River	Lat 36°10'23", long 79°30'38", Alamance County, Hydrologic Unit 03030002, at bridge on State Highway 87 at Ossipee, and 0.5 mi upstream from mouth.	256	1969-70, 1973, 1976-2004	11-30-04 3-29-05 8-23-05	380 2,360 103
02096230 Jordan Creek	Stony Creek	Lat 36°11'20", long 79°23'43", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 1754, 1.0 mi south of Union Ridge, and 2.0 mi above mouth.	24.1	1949-57, 1959-62, 1966, 1997-2004	10-7-04 2-4-05 5-5-05 8-5-05	8.31 74.7 6.38 0.13
02096829 Haw River	Cape Fear River	Lat 35°56'29", long 79°18'58", Alamance County, Hydrologic Unit 03030002, at bridge on Secondary Road 2171 at Saxapahaw, 8.5 mi upstream from Motes Creek.	1083	1954-55, 1974, 1992 1995-2004	12-2-04 3-22-05 6-22-05 9-8-05	1,240 1,080 239 102
02097521 Morgan Creek	New Hope River	Lat 35°51'48", long 79°00'35", Chatham County, Hydrologic Unit 03030002, at bridge on Secondary Road 1726, 2 mi upstream from Cub Creek, and 4 mi north of Farrington.	45.6	1970, 1973, 1976, 1978, 1980-2004	12-3-04 3-22-05 5-3-05 8-4-05	25.0 38.4 19.6 13.2
02101001 Bear Creek	Deep River	Lat 35°26'26", long 79°35'20", Moore County, Hydrologic Unit 03030003, at bridge on State Highway 705, 0.5 mi north of Robbins, and 1 mi downstream of Cabin Creek.	139	1973-74, 1985-2004	11-30-04 4-6-05 6-27-05 9-9-05	50.3 98.0 15.6 1.38
0210102530 Deep River	Cape Fear River	Lat 35°28'40", long 79°31'12", Moore County, Hydrologic Unit 03030004, at State Highway 22 near High Falls.	792	1993, 1995, 1997, 1999, 2001-04	6-27-05	25.8

[a] Approximately.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		CAPE FEAR RIVER BASIN--Continued				
02102634 Upper Little River	Cape Fear River	Lat 35°19'33", long 78°43'26", Harnett County, Hydrologic Unit 03030004, at bridge on Secondary Road 2021, 1.5 mi upstream from mouth, and 2.8 mi west of Erwin.	217	1968, 1974-76, 1979, 1985-2004	12-1-04 3-21-05 5-4-05 8-15-05	172 798 91.3 55.4
02102897 Lower Little River	Cape Fear River	Lat 35°12'13", long 79°12'59", Moore County, Hydrologic Unit 030300004, at bridge on Secondary Road 2023, 0.5 mi above James Creek, 1.0 mi southwest of Lobelia.	110	1997-2002, 2003†, 2004	12-8-04 4-5-05 8-3-05 9-9-05	90.2 154 111 3.02
02104279 Rockfish Creek	Cape Fear River	Lat 34°58'10", long 79°06'40", Hoke County, Hydrologic Unit 03030004, at bridge on Secondary Road 1432, 0.2 mi downstream of Puppy Creek, and 1.2 mi northeast or Arabia.	150[a]	1973-74, 1978, 1980-91, 1997-2004	12-7-05 3-24-05 7-21-05 9-8-05	175 254 191 66.1
		PEE DEE RIVER BASIN				
02115860 Muddy Creek	Yadkin River	Lat 36°00'01", long 80°20'25", Forsyth County, Hydrologic Unit 03040101, 100 ft upstream from bridge on Secondary Road 2995, 0.2 mi downstream of Salem Creek and 1.8 mi east of Muddy Creek.	186	1964-87, 1988-93, 1996-2004	10-27-04 12-8-04 5-11-05 8-10-05	91.3 151 124 2,260
02120521 Third Creek	South Yadkin River	Lat 35°46'03", long 80°37'34", Rowan County, Hydrologic Unit 03040102, at bridge on Secondary Road 1970, and 2.2 mi west of Woodleaf.	96.6	1985-2004	12-6-04 1-26-05 3-30-05 5-11-05 8-10-05	66.5 69.1 307 64.1 280
02123500 Uwharrie River	Pee Dee River	Lat 35°25'47", long 80°01'05", Montgomery County, Hydrologic Unit 03040103, at State Highway 109, 1 mi upstream from McLeans Creek, and 3 mi south of Eldorado.	342	1938-71†, 1981-2004	10-4-04 11-3-04 3-15-05 8-5-05 9-30-05	141 57.8 298 34.6 12.0
02123881 Rocky River	Pee Dee River	Lat 35°28'29", long 80°46'48", Mecklenburg County, Hydrologic Unit 03040105, at bridge on Secondary Road 1608, 1.3 mi upstream from West Branch, and 4.2 mi southeast of Davidson	13.4	1970-2004	12-27-05 4-27-05 4-28-05 8-5-05 9-20-05	12.4 14.5 13.2 7.67 4.41

[a] Approximately.
† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		PEE DEE RIVER BASIN--Continued				
02124193 Park Creek	Coddle Creek	Lat 35°29'23", long 80°42'58", Cabarrus County, Hydrologic Unit 03040105, at bridge on Secondary Road 1624, 0.5 mi upstream from mouth, and 4.3 mi west of Kannapolis.	5.27	2001-04	11-1-04 11-30-04 12-28-04 2-7-05 2-22-05 3-30-05 4-28-05 5-17-05 6-24-05 7-20-05 8-18-05 9-9-05	1.62 4.16 3.50 3.94 4.57 9.77 3.50 2.81 2.09 2.00 7.55 1.36
0212420410 Mill Creek	Coddle Creek	Lat 35°28'29", long 80°42'03", Cabarrus County, Hydrologic Unit 03040105, 0.1 mi downstream from Secondary Road 1622, and 5 mi southwest of Kannapolis.	6.34	2001-04	11-1-04 11-30-04 12-28-04 2-7-05 2-22-05 3-30-05 4-28-05 5-17-05 6-24-05 7-20-05 8-18-05 9-9-05	2.51 4.28 4.38 4.60 5.00 11.6 3.80 3.12 1.79 1.99 7.26 1.20
02124206 Coddle Creek	Rocky River	Lat 35°26'12", long 80°41'52", Cabarrus County, Hydrologic Unit 03040105, at bridge on State Highway 73, 0.7 mi downstream from Mill Creek, and 7 mi northwest of Concord.	47.5	1973, 2001	11-1-04 11-30-04 12-28-04 2-7-05 2-22-05 4-28-05 5-17-05 6-24-05 7-20-05 8-18-05 9-9-05	5.49 5.59 6.01 4.28 4.28 10.7 3.17 2.20 0.32 4.28 4.19
02124374 Irish Buffalo Creek	Rocky River	Lat 35°20'50", long 80°32'52", Cabarrus County, Hydrologic Unit 03040105, at bridge on Secondary Road 1132, 1 mi south of Faggarts Crossroads, and 1 mi upstream from mouth.	45.4	1974-84, 1986-2004	10-1-04 11-16-04 4-7-05 8-3-05	42.3 14.6 25.4 10.3
02124401 Rocky River	Pee Dee River	Lat 35°19'26", long 80°30'59", Cabarrus County, Hydrologic Unit 03040105, at bridge on U.S. Highway 601, 1 mi upstream from Hamby Branch, and 3 mi southeast of Faggarts Crossroads.	393	1970-71, 1973-2004	11-16-04 4-28-05 8-5-05 9-20-05	183 195 121 63.4
02125126 Long Creek	Rocky River	Lat 35°13'05", long 80°15'28", Stanly County, Hydrologic Unit 03040105, at bridge on Secondary Road 1917, 1 mi upstream from mouth, and 4 mi east of Oakboro.	198	1970-71, 1973-2004	10-5-04 1-5-05 4-6-05 8-3-05 9-22-05	135 67.5 194 82.7 16.4

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		PEE DEE RIVER BASIN--Continued				
02125482 Richardson Creek	Rocky River	Lat 35°04'16", long 80°24'25", Union County, Hydrologic Unit 03040105, at bridge on Secondary Road 1649, 1.2 mi downstream of Watson Creek, and 1.5 mi northwest of Fairfield.	153	1961-62, 1981-84, 1986-2003	12-8-04 1-6-05 5-10-05 8-3-05 9-23-05	43.0 21.4 15.0 29.9 9.58
02129341 Hitchcock Creek	Pee Dee River	Lat 34°55'05", long 79°49'50", Richmond County, Hydrologic Unit 03040201, downstream of dam at Cordova, and 1.2 mi upstream from mouth.	134	1970-71, 1974, 1979-84, 1986-2004	11-18-04 6-21-05 8-11-05 9-21-05	86.1 22.3 182 144
02129527 Jones Creek	Pee Dee River	Lat 34°54'15", long 79°55'51", Anson County, Hydrologic Unit 03040201, at bridge on State Highway 145, 2.9 mi downstream of Hale Creek, and 3.1 mi southwest of Pee Dee.	92.8	1985-2004	11-18-04 8-11-05 9-21-05 9-21-05	18.5 76.8 7.90 14.9
02129558 Marks Creek	Pee Dee River	Lat 34°51'45", long 79°43'09", Richmond County, Hydrologic Unit 03040201, at bridge on Secondary Road 1812, 1.3 mi downstream of City Lake spillway, and 2.4 mi southwest of Hamlet.	12.9	1970-71, 1979-84, 1986-2001, 2003-04	11-18-04 6-21-05 8-11-05 9-21-05	9.79 2.64 11.7 38.4
		SANTEE RIVER BASIN				
02141245 Lower Creek	Catawba River	Lat 35°49'31", long 81°38'10", Burke County, Hydrologic Unit 03050101, at bridge on Secondary Road 1501, 0.8 mi downstream of Husband Creek, and 7 mi northeast of Morganton.	89.5	1949-50,[b] 1964-69,[b] 1972-73, 1975-84, 1986-92, 1993-94,[†] 1995-2004	4-28-05 5-19-05 6-21-05 9-27-05	89.4 73.8 101 53.5
0214272204 Dutchmans Creek	Catawba River	Lat 35°20'10", long 81°00'50", Gaston County, Hydrologic Unit 03050102, at bridge on Secondary Road 1918 and 0.7 mi west of Mountain Island.	116	1986-2004	12-15-04 4-18-05 8-8-05 9-19-05	116 143 50.8 21.4
02143027 Henry Fork	South Fork Catabwa River	Lat 35°39'27", long 81°18'33", Catawba County, Hydrologic Unit 03050102, at bridge on Secondary Road 1143, 1.7 mi upstream from mouth and 2.5 mi northwest of Startown.	110	1970-71, 1973-74, 1978-80, 1996-2004	3-16-05 5-4-05 6-30-05 9-27-05	152 143 122 73.0

[b] Baseflow.
[†] Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		SANTEE RIVER BASIN--Continued				
02143260 Clark Creek	South Fork Catawba River	Lat 35°28'30", long 81°16'00", Lincoln County, Hydrologic Unit 03050102, at bridge on Secondary Road 1008 at Lincolnton, and 0.2 mi upstream from mouth.	91.2	1947, 1949-57, 1962-64, 1970-72, 1975, 1978-2004	12-15-04 5-4-05 8-8-05 9-19-05	116 83.8 66.7 36.2
02145640 Crowders Creek	Catawba River	Lat 35°08'36", long 81°09'03", York County, South Carolina, Hydrologic Unit 03050101, at bridge on Kendricks Road, (SC564), downstream from Rocky Branch and 3.5 mi east-southeast of Bowling Green, South Carolina.	89	1970-77, 1979-91, 1996-2004	12-15-04 5-4-05 8-9-05 9-23-05	66.5 61.6 43.3 12.0
02146800 Sugar Creek	Catawba River	Lat 35°00'21", long 80°54'09", York County, Hydrologic Unit 03050103, at bridge on State Highway 160, 0.7 mi downstream from Clems Branch, and 2.6 mi east of Fort Mill, S.C.	262	1969, 1974-78†, 1982-2004	3-21-05 3-29-05 8-9-05 9-20-05	299 935 2,890 137
02152596 First Broad River	Broad River	Lat 35°13'03", long 81°36'28", Cleveland County, Hydrologic Unit 03050105, at bridge on Secondary Road 1140, 3 mi upstream from mouth, and 4.8 mi northwest of Earl.	296	1968-77, 1980-2004	4-19-05 5-4-05 9-15-05 9-28-05	415 348 128 131
02153456 Buffalo Creek	Broad River	Lat 35°10'20", long 81°31'02", Cleveland County, Hydrologic Unit 03050105, at bridge on State Highway 98, 0.1 mi upstream from North Carolina-South Carolina State line, and 4 mi west of Grover.	161	1968-77, 1979-2004	4-19-05 5-4-05 9-15-05 9-28-05	165 137 60.4 56.4
		SAVANNAH RIVER BASIN				
02184242 Horse-pasture River	Toxaway River	Lat 35°05'33", long 82°58'34", Transylvania County, Hydrologic Unit 03060101, at bridge on State Highway 281, and 4 mi southwest of Lake Toxaway.	24.1	1985-2004	4-1-05 4-27-05 8-12-05 9-15-05	140 80.3 127 71.9

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		KANAWA RIVER BASIN				
03160271 South Fork New River	New River	Lat 36°13'14", long 81°38'25", Watauga County, Hydrologic Unit 05050001, at bridge on U.S. Highway 421, and 2 mi east of Boone.	34.8	1925, 1955-56, 1960, 1962, 1974-2004	5-2-05 8-24-05	87.2 53.0
03162500 North Fork New River	New River	Lat 36°30'14", long 81°23'25", Ashe County, Hydrologic Unit 05050001, 0.2 mi downstream of bridge on State Highway 16 at Crumpler, and 6 mi upstream from South Fork.	277	1930-58†, 1977, 1981-2004	5-4-05 8-24-05	674 189
		TENNESSEE RIVER BASIN				
03446569 Mud Creek	French Broad River	Lat 35°21'10", long 82°27'51", Henderson County, Hydrologic Unit 06010105, at bridge on Secondary Road 1508, 0.2 mi downstream of Clear Creek, and 0.6 mi northeast of Balfour.	97.4	1968-74, 1977, 1992-2004	4-22-05 5-6-05 8-29-05	163 150 167
03457124 Pigeon River	French Broad River	Lat 35°32'05", long 82°54'41", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1818 at Clyde, and 0.2 mi downstream of Chambers Branch.	162	1969-78, 1980-2004	3-15-05 5-2-05 6-29-05 9-21-05	325 434 573 172
03458121 Richland Creek	Pigeon River	Lat 35°30'30", long 82°58'19", Haywood County, Hydrologic Unit 06010106, at bridge on Secondary Road 1184, 0.8 mi upstream from Raccoon Creek, and 1.5 mi northeast of Waynesville.	48.0	1981-2004	3-15-05 5-2-05 6-29-05 9-21-05	114 114 110 48.5
03461976 North Toe River	Nolichucky River	Lat 35°58'51", long 82°00'59", Avery County, Hydrologic Unit 06010108, at bridge on U.S. Highway19E, 0.1 mi downstream of Jones Creek, 0.7 mi north of Ingalls, and at mile 50.9.	74.1	1969-71, 1973-74, 1976-2004	3-18-05 5-5-05 7-19-05 9-16-05	165 220 145 77.5
03463021 North Toe River	Nolichucky River	Lat 35°55'46", long 82°06'57", Mitchell County, Hydrologic Unit 06010108, at bridge on Secondary Road 1162 at Penland, 0.4 mi downstream of Bear Creek, and at mile 27.6.	145	1969-70, 1972-75, 1978, 1982-2004	3-18-05 5-5-05 8-12-05 9-29-05	277 369 238 146
03464000 Cane River	Nolichucky River	Lat 36°00'52", long 82°19'40", Yancey County, Hydrologic Unit 06010108, 1.3 mi upstream from North Toe River, and 1.5 mi east of Sioux.	157	1933-71†, 1974-78, 1980-2004	3-22-05 5-5-05 9-16-05 9-29-05	249 320 94.8 89.1

† Operated as a continuous-record gaging station.

DISCHARGE MEASUREMENTS MADE AT MISCELLANEOUS SITES DURING WATER YEAR 2005--Continued

Station Number and Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft^3/s)
		TENNESSEE RIVER BASIN--Continued				
03478819 South Fork Watauga River	South Fork Holston River	Lat 36°11'39", long 81°44'45", Watauga County, Hydrologic Unit 06010103, at bridge on State Highway 105,300 ft upstream from Laurel Fork, and 1.4 mi north of Shulls Mills.	26.6	1971-73, 1975, 1986-2004	4-29-05 7-21-05	50.9 97.4
03502000 Little Tennessee River	Tennessee River	Lat 35°14'03", long 83°23'42", Macon County, Hydrologic Unit 06010202, 0.2 mi upstream from State Highway 28 at Iotla, and 0.2 mi upstream from Iotla Creek.	323	1929-45†, 1972-79, 1982-2004	3-18-05 4-28-05 8-19-05 9-15-05	823 872 1,510 669
03515633 Cheoah River	Little Tennessee River	Lat 35°20'04", long 83°48'21", Graham County, Hydrologic Unit 06010204, 0.1 mi upstream from Long Creek, and 0.9 mi north of Robbinsville.	55.3	1968-71, 1973-2004	3-16-05 4-29-05 8-10-05 9-14-05	143 89.1 56.6 33.5

† Operated as a continuous-record gaging station.

Page

A

Abbotts Creek at Lexington 688
Access to USGS water data 23
Accuracy of the Records 14
Afterbay Reservoir at Dam near McGhees Mill 79
Ahoskie Creek at Ahoskie 62
Ahoskie, Ahoskie Creek at 62
Alexander, Newfound Creek near 985
All Healing Springs, Lower Little River near 771
Apex, Swift Creek near 365
Appalachia Lake 1052
Ararat River at Ararat 666
Ararat, Ararat River at 666
Arneys Store, Johns River at 769
Asheville, French Broad River at 982
Ash Hill, Bull Creek at 669

B

B. Everett Jordan Lake 592,617,925
B. Everett Jordan Lake, change in contents 931
B. Everett Jordan Lake at Dam near Moncure 592
Badin Lake 925
Badin Lake, change in contents 932
Bahama, Flat River at 292
Bahama, Flat River at Dam near 298
Bahama, Lake Michie at dam near 295
Bahama, Little River Reservoir at dam near 285
Bahama, Mountain Creek at Secondary Road 1617 near 282
Barber, Second Creek near 685
Barkers Creek, Tuskasegee River at 1034
Bay Leaf, Falls Lake at State Hwy 98 near 307
Bear Creek at Mays Store 385
Bear Creek Lake 1038,1051
Beaufort, Gallant Channel at Airport at 495
Beaverdam Creek above Windy Gap Road near Shopton 802
Bee Tree Lake 980
Beetree Creek 980
Beetree Creek near Swannanoa 978
Beetree Reservoir 1050
Benson, Lake 928
Bent Creek at Bent Creek Gap near Glen Bald 974
Bessemer City, Long Creek near 811
Bethel Hill, Mayo Creek near 84
Bethel, West Fork Pigeon River at 998
Big Bear Creek near Richfield 725
Big Shoe Heel Creek near Laurinburg 733
Big Swamp near Tarheel 741
Biltmore, Swannanoa River at 980
Birdtown, Oconaluftee River at 1036
Black Creek at Four Oaks 379
Black River near Currie 627
Black River near Tomahawk 625
Blands, New Hope Creek near 565
Blantyre, French Broad River at 941
Blewett Falls Lake 731,926
Blewett Falls Lake, change in contents 933
Boardman, Lumber River at 743
Boiling Springs, Broad River near 875
Boyd Branch at Bent Creek Gap Road near Lake Powhatan 947
Brandt, Lake 524,928
Brasstown, Brasstown Creek near 1045
Brasstown Creek near Brasstown 1045
Brevard, Davidson River at 939
Briar Creek above Colony Road at Charlotte 843
Briar Creek at Independence Boulevard at Charlotte 840
Briar Creek at Providence Road at Charlotte 842
Briar Creek below Edwards Branch near Charlotte 841
Briar Creek near Charlotte 838
Broad River near Boiling Springs 875
Brush Creek at Muirfield Road at Greensboro 515
Bryson City, Tuckasegee River at 1038
Buckhorn Creek near Corinth 605
Buckhorn Reservoir 928,929
Buffalo Creek at SR2819 near McLeansville 547
Bull Creek at Ash Hill 669
Burgaw, Northeast Cape Fear River near 632
Burlington, Lake 928
Burnett Lake 980,1050
Bynum, Haw River near 560

C

Calvin, Catawba River 767
Campbell Creek near Charlotte 853
Cane Creek near Orange Grove 533
Cane Creek Reservoir at dam near White Cross 557
Canton, East Fork Pigeon River near 1000
Canton, Pigeon River near 1003
Cape Fear River at Fayetteville 614
Cape Fear River at Lillington 607
Cape Fear River at Lock 1 near Kelly 620
Cape Fear River at William O. Huske Lock near Tarheel 617
Cartoogechaye Creek near Franklin 1021
Casar, First Broad River near 877
Cataloochee Creek near Cataloochee 1007
Cataloochee, Cataloochee Creek near 1007
Catawba River at Calvin 767
Catawba River near Pleasant Gardens 762
Cashie River near Windsor 127
Cedar Cliff Lake 1038,1051
Celo, South Toe River 1015
Chapel Hill, Morgan Creek near 577
Chapel Hill, University Lake at intake near 574
Charlotte, Briar Creek above Colony Road at 843
Charlotte, Briar Creek below Edwards Branch near 841
Charlotte, Briar Creek near 838
Charlotte, Briar Creek at Independence Boulevard at 840
Charlotte, Briar Creek at Povidence Road at 842
Charlotte, Campbell Creek near 853
Charlotte, Coffey Creek near 829
Charlotte, Irvins Creek at SR1368 near 855
Charlotte, Irwin Creek at Statesville Avenue at 817
Charlotte, Irwin Creek near 825
Charlotte, Little Hope Creek at Seneca Place at 845

Page

Charlotte, Little Sugar Creek at Medical Center Drive at..... 835
Charlotte, Little Sugar Creek at Archdale Drive at..... 847
Charlotte, Little Sugar Creek at Hillside Avenue near 837
Charlotte, Little Sugar Creek below 36th Street near 834
Charlotte, McAlpine Creek at Sardis Road near 857
Charlotte McDowell Creek near 777
Charlotte, McMullen Creek at Sharon View Road near 861
Charlotte, Paw Creek at Wilkinson Boulevard near 800
Charlotte, Reedy Creek at SR2803 near 701
Charlotte, Stewart Creek at State Street at..... 821
Charlotte, Stewart Creek at West Morehead Street at 823
Charlotte, Taggart Creek at West Boulevard near 827
Chatuge Lake 1049
Chatuge Lake, change in contents..... 1053
Cheoah Lake 1051
Cheoah River near Bear Pen Gap near Tapoco..... 1041
Chicod Creek near Simpson..... 181
Chinquapin, Northeast Cape Fear River near 630
Clark Creek near Harrisburg..... 695
Clayton, Middle Creek near..... 377
Clayton, Neuse River near 336
Clear Creek at Secondary Road 3181 near Mint Hill 706
Coddle Creek at Secondary Road 1612 near Davidson 699
Coffey Creek near Charlotte 829
Contentnea Creek at Hookerton..... 398
Contentnea Creek near Lucama 393
Copeland, Fisher River near..... 659
Cornelius, West Branch Rocky River below mouth of South Prong River near 693
Corinth, Buckhorn Creek near 605
Cove Creek near Lake Lure 807
Cox Mill, Mill Creek at..... 380
Crab Point Thorofare, Morehead City near 480
Crabtree Creek at Anderson Drive at Raleigh 321
Crabtree Creek at Ebenezer Church Road near Raleigh..... 317
Crabtree Creek at Highway 70 at Raleigh 319
Crabtree Creek at Old Wake Forest Road at Raleigh 322
Crabtree Creek at US 1 at Raleigh..... 323
CRN01 745
CRN02 879
CRN03 816
CRN04 880
CRN05 881
CRN07 882
CRN08 883
CRN09 884
CRN11 885
CRN12 886
CRN13 887
CRN14 888
CRN15 889
CRN16 746
CRN17 890
CRN19 891
CRN20 892
CRN21 893
CRN22 894
CRN23 747

Page

CRN24..... 776
CRN25..... 780
CRN26..... 748
CRN27..... 895
CRN28..... 831
CRN29..... 749
CRN30..... 750
CRN31..... 896
CRN32..... 751
CRN33..... 752
CRN34..... 897
CRN35..... 787
CRN36..... 753
CRN37..... 898
CRN38..... 899
CRN39..... 754
CRN40..... 900
CRN42..... 901
CRN43..... 902
CRN44..... 755
CRN45..... 903
CRN46..... 756
CRN47..... 904
CRN48..... 905
CRN49..... 906
CRN50..... 907
CRN51..... 908
CRN52..... 909
CRN53..... 910
CRN54..... 911
CRN55..... 912
CRN56..... 913
CRN57..... 914
CRN58..... 915
CRN59..... 916
CRN60..... 917
CRN61..... 918
CRN62..... 919
CRN63..... 757
CRN64..... 920
CRN65..... 758
CRN66..... 921
CRN67..... 759
CRN68..... 760
CRN69..... 922
CRN70..... 923
Croft, Gar Creek near..... 781
Crutchfield Crossroads, Rocky River near..... 599
Cullasaja River at SR 1620 near Highlands..... 1023
Cullowhee, Tuckasegee River at Secondary Road 1172 near... 1032
Currie, Black River near..... 627

D

Dalton, Little Yadkin River at..... 671
Dan River near Francisco..... 64
Dan River near Wentworth 68
Davidson, Coddle Creek at Secondary Road 1612 near 699

Page

Davidson River near Brevard....939
Deep River at Moncure.... 603
Deep River at Ramseur.... 597
Definition of terms.... 24
Drowning Creek near Hoffman.... 735
Durham, Eno River near.... 278

E

East Fork Deep River near High Point....595
East Fork Lake.... 1051
East Fork Pigeon River near Canton.... 1000
Eden, Smith River at.... 70
Elk Creek at Elkville.... 642
Elkin, Yadkin River at.... 655
Elkville, Elk Creek at.... 642
Enfield, Fishing Creek near.... 170
Eno River at Hillsborough.... 274
Eno River near Durham.... 278
Enon, Yadkin River at.... 673
Explanation of ground water records.... 20
Explanation of precipitation records.... 12
Explanation of stage and water-discharge records.... 6
Explanation of water-quality records.... 13

F

Fairntosh, Little River below Little River Tributary....291
Fairntosh, Little River Tributary at.... 288
Fairview, Goose Creek at....710
Falls, Falls Lake at Mile Marker 1 near....309
Falls, Falls Lake above Dam at....311
Falls, Falls Lake above Dam near....313
Falls Lake....313,315,336,351,383,387,924
Falls Lake above Dam at Falls....311
Falls Lake above Dam near Falls....313
Falls Lake at Interstate 85 near Redwood....303
Falls Lake at State Hwy 50 near Sandy Plain....305
Falls Lake at State Hwy 98 near Bay Leaf....307
Falls Lake at Mile Marker 1 near Falls....309
Falls Lake, change in contents....931
Falls, Neuse River near.... 315
Farmville, Middle Swamp near....407
Farrington, Jordan Lake at Buoy 12 at.... 579
Fayetteville, Cape Fear River at....614
First Broad River near Casar.... 877
Fisher River near Copeland.... 659
Fishing Creek at N.C. 97 near Leggett....172
Fishing Creek near Enfield.... 170
Flat Creek near Inverness.... 609
Flat River at Bahama.... 292
Flat River at Dam near Bahama....298
Flat River Tributary near Willardville....300
Fletcher, French Broad River near....945
Fort Barnwell, Neuse River at....409
Fontana Lake.... 1049
Fontana Lake, change in contents.... 1053
Four Mile Creek near Pineville....860

Page

Four Oaks, Black Creek near....379
Francisco, Dan River near.... 64
Franklin, Cartoogechaye Creek near.... 1021
Freeland, Waccamaw River at.... 636
French Broad River at Asheville.... 982
French Broad River at Blantyre.... 941
French Broad River at Marshall.... 990
French Broad River at Rosman.... 937
French Broad River near Fletcher....945

G

Gallant Channel at Airport at Beaufort....495
Gar Creek near Croft....781
Garner, Lake Benson at Dam near....375
Gaston, Lake.... 86,924
Genlee, Northeast Creek near.... 567
Gibsonville, Reedy Fork near....524
Glen Bald, Bent Creek at Bent Creek Gap near....974
Goldsboro, Neuse River near.... 383
Goose Creek at Fairview....710
Goose Creek near Indian Trail....708
Green Level, White Oak Creek at mouth near....582
Greensboro, Brush Creek at Muirfield Road at....515
Greensboro, Horsepen Creek at US 220 near....521
Greensboro, North Buffalo Creek at Church St at....541
Greensboro, North Buffalo Creek at Westover Terrace at....538
Greensboro, North Buffalo Creek near....544
Greensboro, Ryan Creek below US220 at....532
Greensboro, South Buffalo Creek at US220 at....579
Greensboro, South Buffalo Creek near....535
Greenville, Tar River at....178
Griffins Crossroads, Jordan Lake at Bells Landing near....589
Grimesland, Tar River at Secondary Road 1565 near....183
Gum Branch near Thrift....794
Gum Branch, New River near.... 510

H

Halifax, Roanoke River at....88
Hamilton, Roanoke River at....113
Harmony, Hunting Creek near.... 682
Harris Lake.... 605
Harrisburg, Clarke Creek near....695
Harrisburg, Mallard Creek near....697
Haw River at Haw River....550
Haw River below B. Everett Jordan Dam near Moncure.... 593
Haw River near Bynum.... 560
Haw River, Haw River at....550
Hazelwood, Lake Logan at Dam near....944
Hazelwood, West Fork Pigeon River above Lake Logan.... 992
Henry Fork near Henry River.... 804
Henry River, Henry Fork near.... 804
Hepco, Pigeon River near....1005
Hewitt, Nantahala River near....1030
Hickory, Lake.... 926
Higgins, Lake....524,928
Highlands, Cullasaja River at SR 1620 near....1023

Page

High Point, East Fork Deep River near....595
High Point Municipal Lake....597,929
High Rock Lake....925
High Rock Lake, change in contents....932
High Rock Lake Precipitation....691
Hillardston, Swift Creek at....164
Hillsborough, Eno River at....274
Hiwassee Lake....1049
Hiwassee Lake, change in contents....1053
Hoffman, Drowning Creek near....735
Hogan Creek at Secondary Road 2038 near Siloam....662
Hoke, Van Swamp near....272
Hominy Swamp at Forest Hills Road near Wilson....395
Hood Creek near Leland....623
Hookerton, Contentnea Creek at....398
Horsepen Creek at US 220 near Greensboro....521
Hunting Creek near Harmony....682
Hyco Creek near Leasburg....74
Hyco Lake....974
Hyco Lake at Dam near Roxboro....78
Hyco Lake, change in contents....930
Hyco River below Afterbay Dam near McGehees Mill....80

I

Identifying Estimated Daily Discharge....11
Idlewild, McAlpine Creek at State Road 3150 near....851
Indian Creek near Laboratory....809
Indian Trail, Goose Creek near....708
Inverness, Flat Creek near....609
Irvins Creek at SR 3168 near Charlotte....855
Irwin Creek at Statesville Avenue at Charlotte....817
Irwin Creek near Charlotte....825
Ivy River near Marshall....988

J

Jackson, Waxhaw Creek at Secondary Road 1103 near....868
Jacob Fork at Ramsey....806
James, Lake....926
Jamesville, Roanoke River at....115
Jefferson, South Fork New River near....935
John H. Kerr Reservoir....86
Johns River at Arneys Store....769
Johnson, Lake....927
Jordan Lake, B. Everett at Bells Landing near Griffins Crossroads....589
Jordan Lake, B. Everett at Buoy 12 at Farrington....579
Jordan Lake, B. Everett....562,586,579,589,592,617,620,925
Jordan Lake, B. Everett near Wilsonville....630
Jordan Lake, B. Everett Haw River Arm, above B. Everett Jordan Dam....562
Julian, Lake....1050
Junaluska, Lake....1050,1005

JK

Kelly, Cape Fear River at Lock 1 near....620
Killian Creek near Mariposa....788
Kinston, Neuse River at....387

L

Laboratory, Indian Creek near....809
Lake Benson....928
Lake Benson at Dam near Garner....375
Lake Brandt....524,928
Lake Burlington....928
Lake Gaston....86,924
Lake Gaston, change in contents....930
Lake Hickory....926
Lake Hickory, change in contents....933
Lake Higgins....524,928
Lake James....926
Lake James, change in contents....933
Lake Johnson....927
Lake Julian....1050
Lake Junaluska....1050,1005
Lake Logan....996,1050
Lake Logan at Dam near Hazelwood....994
Lake Lure, Cove Creek near....870
Lake Michie....927
Lake Michie at Dam near Bahama....295
Lake Powhatan, Boyd Branch at Bent Creek Gap Road near....947
Lake Norman....927
Lake Norman, change in contents....934
Lake Raleigh....928
Lake Roxboro....927
Lake Tillery....925
Lake Tillery, change in contents....932
Lake Townsend....524,928
Lake Toxaway....929
Lake Wheeler....373,928
Lake Wheeler on Swift Creek near Raleigh....371
Lake, Appalachia....1052
Lake, B. Everett Jordan....570,607,620,925
Lake, Badin....925
Lake, Bear Creek....1051,1038
Lake, Bee Tree....980
Lake, Blewett Falls....731,926
Lake, Burnett....980,1050
Lake, Cedar Cliff....1038,1051
Lake, Chatuge....980,1049
Lake, Cheoah....1051
Lake, East Fork....1051
Lake, Falls....313,315,336,351,383,387,924
Lake, Fontana....1049
Lake, Harris....605
Lake, High Point Municipal....597,929
Lake, High Rock....925
Lake, Hiwassee....1049
Lake, Hyco....924
Lake, Junaluska....1050,1005
Lake, Lookout Shoals....926
Lake, Mayo Steam-Electric Generating Plant....927
Lake, Mountain Island....927

Page

Lake, Nantahala 1051
Lake, Rhodhiss 926
Lake, Richland 524
Lake, Philpott 86
Lake, Roanoke Rapids 86,924
Lake, Santeetlah 1051
Lake, Sequoyah 1050
Lake, Smith Mountain 86
Lake, Waterville 1050
Lake, Wolf Creek 1051
Laurinburg, Big Shoe Heel Creek near 733
Leasburg, Hyco Creek near 74
Leggett, Fishing Creek at N.C. 97 near 172
Leggett, Swift Creek at N.C. 97 near 166
Leland, Hood Creek near 623
Lexington, Abbotts Creek at 688
Lexington-Thomasville Reservoir 929
Lillington, Cape Fear River at 607
Linville River near Nebo 765
Little Fishing Creek near White Oak 168
Little Hope Creek at Seneca Place at Charlotte 845
Little River at Manchester 612
Little River below Little River Tributary at Fairntosh 291
Little River near Orange Factory 280
Little River near Princeton 381
Little River near Star 729
Little River Reservoir at dam near Bahama 285
Little River Tributary at Fairntosh 288
Little Sugar Creek at Archdale Drive at Charlotte 847
Little Sugar Creek at Highway 51 at Pineville 849
Little Sugar Creek at Medical Center Drive at Charlotte 835
Little Sugar Creek at Hillside Avenue near Charlotte 837
Little Surgar Creek below 36th Street near Charlotte 834
Little Tennessee River at Needmore 1025
Little Tennessee River near Prentiss 1019
Little Yadkin River at Dalton 671
Lizzie, Unnamed Tributary to Sandy Run near 404
Lizzie, Weather Station #2 near 406
Logan, Lake 1050
Logan, Second Broad River near 872
Long Creek near Bessemer City 811
Long Creek near Paw Creek 791
Long Creek near Rhyne 798
Lookout Shoals Lake 926
Lookout Shoals Lake, change in contents 934
Louisburg, Tar River at US 401 at 153
Lowell, South Fork Catawba River at 814
Lower Little River near All Healing Springs 771
Lucama, Contentnea Creek near 393
Lumber River at Boardman 743
Lumber River at Lumberton 739
Lumber River near Maxton 737
Lumberton, Lumber River at 739

M

Mallard Creek nr Harrisburg 697
Manchester, Little River at 612
Mariposa, Killian Creek near 788
Marsh Creek near New Hope 328
Marshall, French Broad River at 990
Marshall, Ivy River near 988
Mayo Creek near Bethel Hill 84
Mayo River near Price 66
Mayo Steam Electric Generating Plant 84
Mayo Steam-Electric Generating Plant Lake 927
Mays Store, Bear Creek at 385
Maxton, Lumber River near 737
McAlpine Creek at Sardis Road near Charlotte 857
McAlpine Creek at State Road 3150 near Idlewild 851
McAlpine Creek below McMullen Creek near Pineville 863
McCullars Crossroads, Swift Creek near 373
McDowell Creek near Charlotte 777
McGehees Mill, Afterbay Reservoir at Dam near 79
McGehees Mill, Hyco River below Afterbay dam near 80
McLeansville, Buffalo Creek at SR 2819 near 547
McMullen Creek at Sharon View Road near Charlotte 861
Measurements at miscellaneous sites 1054
Michie, Lake 927
Middle Creek near Clayton 377
Middle Swamp near Farmville 407
Mill Creek at Cox Mill 380
Mills River near Mills River 943
Mills River, Mills River near 943
Mint Hill, Clear Creek at Secondary Road 3181 near 706
Mitchell River near State Road 657
Mocksville, South Yadkin River near 679
Moncure, B. Everett Jordan Lake at Dam near 592
Moncure, Deep River at 603
Moncure, Haw River below B. Everett Jordan Dam near 593
Morehead City, Crabpoint Thorofare near 480
Morgan Creek near Chapel Hill 577
Morgan Creek near White Cross 570
Mount Vernon Springs, Tick Creek near 601
Mountain Creek at Secondary Road 1617 near Bahama 282
Mountain Island Lake 927
Mountain Island Lake, change in contents 934

N

Nahunta Swamp near Shine 396
Nantahala Lake 1051
Nantahala River near Hewitt 1030
Nantahala River near Rainbow Springs 1028
Nebo, Linville River near 765
Needmore, Little Tennessee River at 1025
Neuse River above U.S. 70 at Smithfield 338
Neuse River at Channel Light 9 459
Neuse River at Channel Light 11 438
Neuse River at Kinston 387
Neuse River at New Bern 413
Neuse River at Smithfield 351
Neuse River near Clayton 336
Neuse River near Falls 315
Neuse River near Fort Barnwell 409
Neuse River near Goldsboro 383

Page

New Bern, Neuse River at ... 413
New Hope Creek near Blands ... 565
New Hope, Marsh Creek near ... 328
New River near Gum Branch ... 570
Newfound Creek near Alexander ... 985
Norman, Lake ... 927
North Buffalo Creek at Church Street at Greensboro ... 541
North Buffalo Creek at Westover Terrace at Greensboro ... 538
North Buffalo Creek near Greensboro ... 544
North Fork Swannanoa River near Walkertown ... 976
North Wilkesboro, Reddies River at ... 648
Northeast Cape Fear River near Burgaw ... 632
Northeast Cape Fear River near Chinquapin ... 630
Northeast Creek near Genlee ... 567
Norwood Creek near Troutman ... 774
Norwood, Rocky River near ... 727
Numbering System for Wells and Miscellaneous Sites ... 3

O

Oak City, Roanoke River near ... 101
Oak Hollow Reservoir ... 597,928
Oak Ridge, Reedy Fork near ... 512
Oconaluftee River at Birdtown ... 1036
Orange Factory, Little River near ... 280
Orange Grove, Cane Creek near ... 553

P

Pamlico River at Light 5 ... 209
Pamlico River at Light 3 ... 230
Pamlico River at Washington ... 186
Pasquotank River near South Mills ... 58
Patterson, Yadkin River at ... 638
Pauls Creek above Secondary Road 1625 near Pine Ridge ... 664
Paw Creek, Long Creek near ... 791
Paw Creek at Wilkinson Boulevard near Charlotte ... 800
Pee Dee River near Rockingham ... 731
Philpott Lake ... 86
Pigeon House Creek at Cameron Village at Raleigh ... 325
Pigeon River below power plant near Waterville ... 1009
Pigeon River near Canton ... 1003
Pigeon River near Hepco ... 1005
Pine Ridge, Pauls Creek above Secondary Road 1625 near
Pinetops, Town Creek at US 258 near ... 175
Pineville, Four Mile Creek near ... 860
Pineville, Little Sugar Creek at Highway 51 at ... 849
Pineville, McAlpine Creek below McMullen Creek near ... 863
Pineville, Steele Creek at SR1441 near ... 866
Pineville, Sugar Creek at NC 51 near ... 832
Pleasant Gardens, Catawba River near ... 762
Pollocksville, Trent River at ... 436
Pomona, South Buffalo Creek near ... 526
Potecasi Creek near Union ... 60
Prentiss, Little Tennessee River near ... 1019
Price, Mayo River near ... 66
Princeton, Little River near ... 381
Pungo River at Channel Light 18 ... 251

Page

R

Raeford, Rockfish Creek at ... 615
Rainbow Springs, Nantahala River near ... 1028
Raleigh, Crabtree Creek at Anderson Drive at ... 321
Raleigh, Crabtree Creek at Ebenezer Church Road near ... 317
Raleigh, Crabtree Creek at Highway 70 at ... 319
Raleigh, Crabtree Creek at Old Wake Forest Rd at ... 322
Raleigh, Crabtree Creek at US 1 at ... 323
Raleigh, Pigeon House Creek at Cameron Village at ... 325
Raleigh, Rocky Branch below Pullen Drive at ... 331
Raleigh, Walnut Creek at Sunnybrook Drive at ... 333
Raleigh, Lake ... 928
Raleigh, Lake Wheeler on Swift Creek near ... 371
Ramseur, Deep River at ... 597
Ramsey, Jacob Fork at ... 806
Reddies River at North Wilkesboro ... 648
Redwood, Falls Lake at Interstate 85 near ... 303
Reedy Creek at Secondary Road 2803 near Charlotte ... 701
Reedy Fork near Gibsonville ... 524
Reedy Fork near Oak Ridge ... 512
Reidsville, Wolf Island Creek below SR 1998 ... 72
Reservoir, Beetree ... 1050
Reservoir, Buckhorn ... 393,398,928
Reservoir, John H. Kerr ... 865
Reservoir, Lexington-Thomasville ... 929
Reservoir, Oak Hollow ... 597,928
Reservoir, Roxboro Steam-Electric Generating Plant
Afterbay ... 80,927
Reservoir, Shearon Harris Main ... 605,929
Reservoir, Stony Creek ... 928
Reservoir, Thorpe ... 1038,1051
Reservoir, Townes ... 64,68,924
Reservoirs, Talbott and Townes ... 930
Reservoir, Tuckertown ... 692,925
Reservoir, W. Kerr Scott ... 655,673,925
Retreat, West Fork Pigeon River near ... 996
Rhodhiss Lake ... 926
Rhodhiss Lake, change in contents ... 933
Rhyne, Long Creek near ... 798
Richfield, Big Bear Creek near ... 725
Richland Lake ... 524
Roanoke Rapids Lake ... 86,924
Roanoke Rapids Lake, change in contents ... 930
Roanoke Rapids, Roanoke River at ... 86
Roanoke River at Halifax ... 88
Roanoke River at Hamilton ... 113
Roanoke River at Jamesville ... 115
Roanoke River at NC 45 near Westover ... 129
Roanoke River at Roanoke Rapids ... 86
Roanoke River at Williamston ... 114
Roanoke River near Oak City ... 101
Roanoke River near Scotland Neck ... 100
Roaring River near Roaring River ... 652
Roaring River, Roaring River near ... 652
Rock Springs, Tar River at U.S. 264 Bypass near ... 177
Rockfish Creek at Raeford ... 615
Rockingham, Pee Dee River near ... 731

Page

Rocky Branch below Pullen Drive at Raleigh 331
Rocky Mount, Stony Creek at Winstead Avenue at 160
Rocky Mount, Tar River at NC 97 161
Rocky Mount, Tar River at U.S. 301 Bypass at 158
Rocky Mount, Tar River below Tar River Reservoir near 156
Rocky River above Irish Buffalo Creek near Rocky River 703
Rocky River near Crutchfield Crossroads 599
Rocky River near Norwood 727
Rocky River, Rocky River above Irish Buffalo Creek near 703
Rocky River near Stanfield 723
Rosman, French Broad River at 937
Roxboro, Hyco Lake Dam near 78
Roxboro Steam-Electric Generating Plant Afterbay Reservoir 80,927
Roxboro, Lake 927
Ryan Creek below US220 at Greensboro 532

S

Sandy Plain, Falls Lake at State Highway 50 near 305
Santeetlah Lake 1051
Scotland Neck, Roanoke River near 100
Second Broad River near Logan 872
Second Creek near Barber 685
Sequoyah Lake 1050
Shearon Harris Main Reservoir 605,929
Shine, Nahunta Swamp near 396
Shopton, Beaverdam Creek above Windy Gap Road near 802
Siloam, Hogan Creek at Secondary Road 2038 near 662
Simpson, Chicod Creek near 181
Smith Mountain Lake 86
Smith River at Eden 70
Smithfield, Neuse River above U.S. 70 at 338
Smithfield, Neuse River at 351
Smithfield, Town of 352
South Buffalo Creek at US220 at Greensboro 529
South Buffalo Creek near Greensboro 535
South Buffalo Creek near Pomona 526
South Fork Catawba River at Lowell 814
South Fork New River near Jefferson 935
South Mills, Pasquotank River near 58
South Toe River near Celo 1015
South Yadkin River near Mocksville 679
Special networks and programs 5
Stanfield, Rocky River near 723
Star, Little River near 729
State Road, Mitchell River near 657
Statesville Precipitation 761
Steele Creek at SR 1441 near Pineville 866
Stewart Creek at State Street at Charlotte 821
Stewart Creek at West Morehead Street near Charlotte 823
Stony Creek at Winstead Avenue at Rocky Mount 160
Stony Creek Reservoir 928
Streets Ferry, Swift Creek at NC Hwy 43 near 411
Sugar Creek at NC 51 near Pineville 832
Sugar Grove, Watauga River near 1017
Swannanoa River at Biltmore 980
Swannanoa, Beetree Creek near 978

Page

Swift Creek at Hilliardston 164
Swift Creek at NC Hwy 43 near Streets Ferry 411
Swift Creek at N.C. 97 near Leggett 166
Swift Creek near Apex 365
Swift Creek near McCullars Crossroads 373

T

Taggart Creek at West Boulevard near Charlotte 827
Talbott Reservoir 64,924
Talbott Reservoir, change in contents 930
Tapoco, Cheoah River near Bear Pen Gap near 1041
Tar River at Greenville 178
Tar River at NC 97 at Rocky Mount 161
Tar River at Secondary Road 1565 near Grimesland 183
Tar River at Tarboro 173
Tar River at U.S. 264 Bypass near Rock Springs 177
Tar River at U.S. 301 Bypass at Rocky Mount 158
Tar River at US 401 at Louisburg 153
Tar River below Tar River Reservoir near Rocky Mount 156
Tar River near Tar River 151
Tar River, Tar River near 151
Tarboro, Tar River at 173
Tarheel, Big Swamp near 741
Tarheel, Cape Fear River at William O. Huske Lock near 617
Thorpe Reservoir 1038,1051
Thrift, Gum Branch near 794
Tick Creek near Mount Vernon Springs 601
Tillery, Lake 925
Tomahawk, Black River near 625
Tomotla, Valley River at 1047
Town Creek at US 258 near Pinetops 175
Town of Smithfield 352
Townes Reservoir 64,68,924
Townes Reservoir, change in contents 930
Townsend, Lake 524,928
Toxaway, Lake 929
Tranters Creek at Secondary Road 1567 near Washington 184
Trent River at Pollocksville 436
Trent River near Trenton 434
Trenton, Trent River near 434
Triplett Raingage 641
Troutman, Norwood Creek near 774
Tuckasegee River at Barkers Creek 1034
Tuckasegee River at Bryson City 1038
Tuckasegee River at Secondary Road 1172 near Cullowhee 1032
Tuckertown Reservoir 629,925
Tuckertown Reservoir, change in contents 932
Tuckertown Reservoir Precipitation 692

U

Union, Potecasi Creek near 60
University Lake at intakes near Chapel Hill 574
Unnamed Tributary to Sandy Run near Lizzie 404

V

Valley River at Tomotla 1047

Page

Van Swamp near Hoke 272

W

W. Kerr Scott at Dam near Wilkesboro 645
W. Kerr Scott Reservoir 655,675,676,925
W. Kerr Scott Reservoir, change in contents 931
Waccamaw River at Freeland 636
Walkertown, North Fork Swannanoa River near 976
Walnut Creek at Sunnybrook Drive at Raleigh 333
Washington, Pamlico River at 186
Washington, Tranters Creek at Secondary Road 1567 near 184
Watauga River near Sugar Grove 1017
Waterville, Pigeon River below power plant near 1009
Waterville Lake 1050
Waxhaw Creek at Secondary Road 1103 near Jackson 866
Weather Station #2 near Lizzie 406
Wentworth, Dan River near 68
West Branch Rocky River below mouth of South Prong River near Cornelius 693
West Fork Pigeon River at Bethel 998
West Fork Pigeon River above Lake Logan near Hazelwood 992
West Fork Pigeon River near Retreat 996
Westover, Roanoke River at NC 45 near 129
Wheeler, Lake 373,928
White Cross, Cane Creek Reservoir at Dam near 557
White Cross, Morgan Creek near 570
White Oak Creek at mouth near Green Level 582
White Oak, Little Fishing Creek near 168
Wilbar Raingage 647
Wilkesboro, W. Kerr Scott Reservoir at Dam near 645
Wilkesboro, Yadkin River at 650
Willardville, Flat River Tributary near 300
Williamston, Roanoke River at 114
Wilson, Hominy Swamp at Forest Hills Road near 395
Wilsonville, Jordan Lake near 586
Windsor, Cashie River near 127
Wolf Creek Lake 1051
Wolf Island Creek below Secondary Road 1998 at Reidsville 72

Y

Yadkin College, Yadkin River at 676
Yadkin River at Elkin 655
Yadkin River at Enon 673
Yadkin River at Patterson 638
Yadkin River at Wilkesboro 650
Yadkin River at Yadkin College 676

Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

°F = (1.8 x °C) + 32

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