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Water Resources Data North Carolina Water Year 2001

Volume 1A. Surface-Water Records

By B.C. Ragland, D.A. Walters, G.D. Cartano, J.E. Taylor

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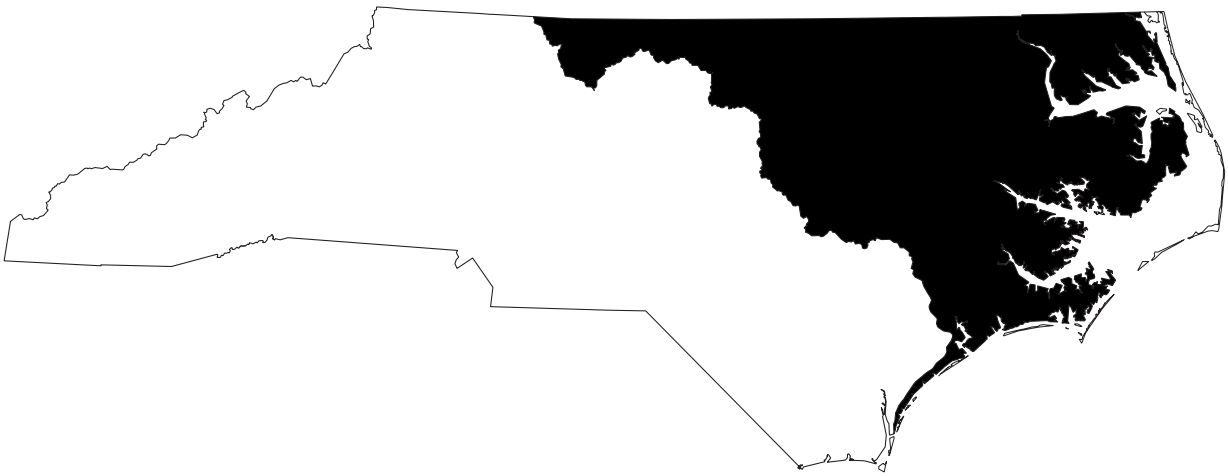

Prepared in cooperation with the North Carolina Department of Environment and Natural Resources, and with other State, municipal, and Federal agencies

U. S. DEPARTMENT OF THE INTERIOR

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2002

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:

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This report was prepared in cooperation with the State of North Carolina, other agencies, and under the general supervision of Gerald L. Ryan, District Chief; and Timothy W. Hale, Acting Regional Hydrologist, Southeastern Region.

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Water-resources data for the 2001 water year for North Carolina consists of discharge records for 209 gaging stations; stage only records for 52 gaging stations; stage and contents for 62 lakes and reservoirs; water quality for 101 gaging stations and 91miscellaneous sites; continuous daily tide stage at 4 sites and continuous precipitation at 98 sites. Additional water data were collected at 84 sites not involved in the systematic data-collection program, and are published as miscellaneous measurements.

Data contained in this volume includes discharge records for 63 gaging stations; stage and contents for 17 lakes and reservoirs; stage for 45 gaging stations; water quality for 72 gaging stations and 91 miscellaneous sites; continuous daily tide stage at 4 sites; continuous precipitation at 6 sites and miscellaneous measurements for 8 stations not involved in the systematic data-collection program.

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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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.

SOUTH ATLANTIC SLOPE BASIN--Continued

SOUTH ATLANTIC SLOPE BASIN--Continued

SOUTH ATLANTIC SLOPE BASIN--Continued

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

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
	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
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
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
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
02085220	Little River near Orange Factory, NC	80.4	1962-87
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Neuse River Basin--Continued		
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
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
0209096970	Moccasin Run near Patetown, NC	1.89	1988-98
02090625	Turner Swamp near Eureka, NC	2.1	1968-87
02091700	Little Contentnea Creek near Farmville, NC	93.3	1956-87
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
02094000	Horsepen Creek at Battle Ground, NC	15.9	1925-31, 1934-59
02095000	South Buffalo Creek near Greensboro, NC	33.6	1928-58
0209509100	South Buffalo Creek at SR 2821 at McLeansville, NC	43.5	1986-88
02095500	North Buffalo Creek near Greensboro, NC	37.1	1929-90
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
02097500	Morgan Creek near Chapel Hill, NC	30.1	1923-32
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
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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

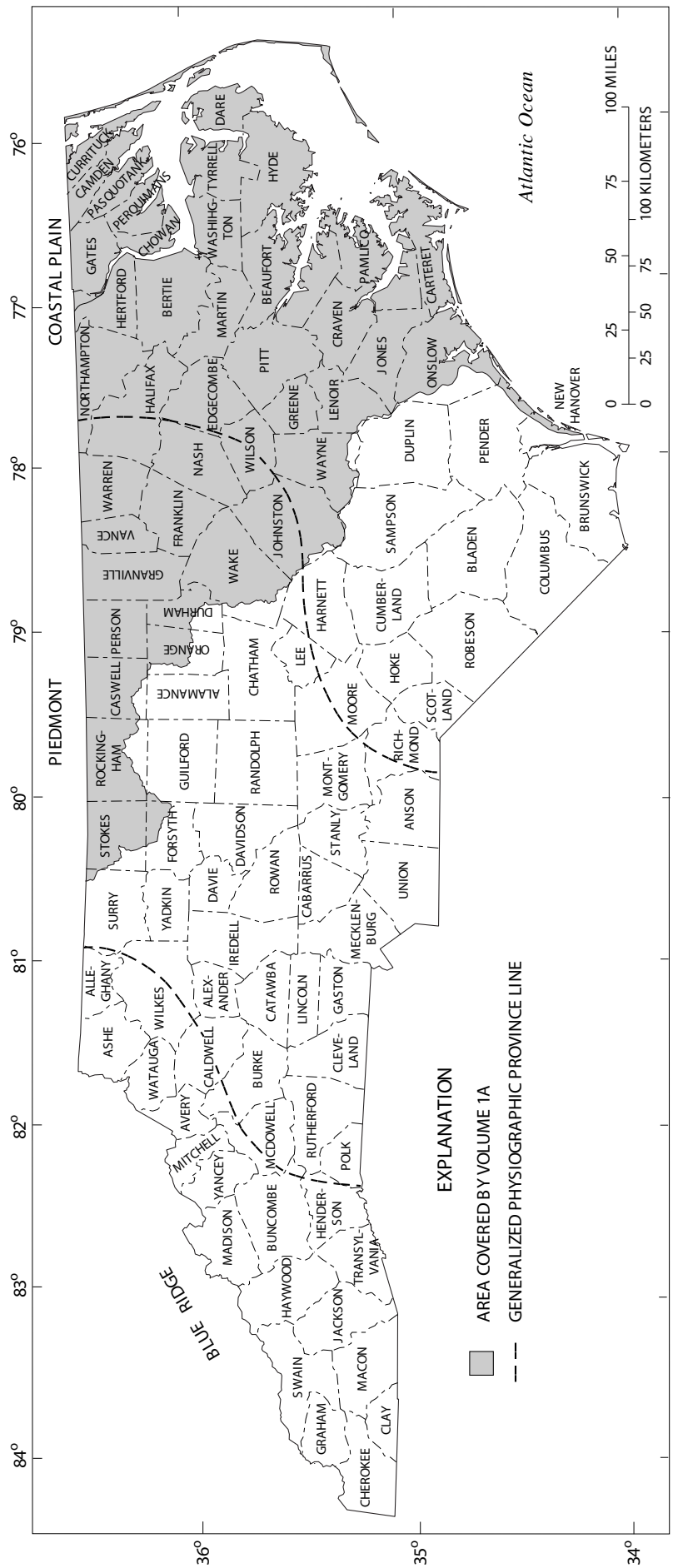
Station number	Station name	Drainage area (mi^2)	Period of record
	Cape Fear River Basin--Continued		
02104500	Rockfish Creek near Hope Mills, NC	292	1929-31, 1939-54
02105524	Ellis Creek tributary at SR 1325 near White Oak, NC	1.81	1979-81
02106000	Little Coharie Creek near Roseboro, NC	92.8	1950-92
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
02123500	Uwharrie River near Eldorado, NC	342	1938-71
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	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
0214620760	Irwin Creek at Starita Road at Charlotte, NC	4.40	1989-94
02146450	Briar Creek at Sharon Road, Charlotte, NC	18.5	1962-73
02146500	Little Sugar Creek near Charlotte, NC	41.0	1924-78
02146579	Irvin's Creek at Lebanon Road near Mint Hill, NC	5.27	1983-90
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
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
	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
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

DISCONTINUED SURFACE-WATER DISCHARGE STATIONS--Continued

Station number	Station name	Drainage area (mi^2)	Period of record
	Tennessee River Basin--Continued		
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
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
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
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 2001 water year for North Carolina consist of records of stage, discharge, 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 63 gaging stations; stage and contents for 17 lakes and reservoirs; stage for 45 gaging stations; water quality for 72 gaging stations and 91 miscellaneous sites; continuous daily tide stage at 4 sites; and continuous precipitation at 6 sites. Additional water data were collected at 8 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 is 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-01-1." Water-data reports are for sale by the National Technical Information Service, U.S. Department of Commerce, Springfield, Virginia 22161.

Additional information for ordering specific reports, can be obtained from the District Chief 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 Cooperative Extension Service
North Carolina Department of Environment and Natural Resources
North Carolina Department of Transportation
Asheville-Buncombe Water Authority
City of Brevard
City of Charlotte
City of Danville, Virginia
City of Durham
City of Morganton
City of Greensboro
City of Raleigh
City of Rocky Mount
Town of Bethel
Water and Sewer Authoity of Cabarrus County
Mecklenburg County
Middle Cape Fear River Basin Association
Triangle Area Water Supply Monitoring Steering Committee
Winston-Salem/Forsyth County Utility Commission
Pender County Emergency Management

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. Environmental Protection Agency
National Weather Service, NOAA, U.S. Department of Commerce

The following organizations aided in collecting records:

Carolina Power and Light Co.; Duke Power Co.; Yadkin, Inc.; Dominion Power; Blue Ridge Paper Products, Inc.; Tapoco, Inc.; Weyerhaeuser Corp.

SUMMARY OF WATER-RESOURCES CONDITIONS

Precipitation

Precipitation amounts for the first quarter, October through December, of the 2001 water year were well below average across the State. Average precipitation amounts are mean monthly values based on data from 1971 through 2000, the 30-year base period used by the National Weather Service. Precipitation amounts varied from 3.76 (Asheville) and 6.38 (Charlotte) inches below average in the western part of the State, to 6.20 (Greensboro) and 5.11 (Raleigh) inches below average in the central part of the State to 4.98 (Elizabeth City) and 3.52 (Wilmington) inches below average in the eastern part of the State. All but one index site (Wilmington) recorded 0.00 inches to a trace of precipitation during the month of October. Asheville and Wilmington were the only locations to report above-average monthly precipitation amounts for the quarter; these amounts both occurred in November. Rainfall data collected at six key National Weather Service stations (figs. 1 and 2) indicate that below-average rainfall amounts were recorded in all the Provinces of North Carolina.

The second quarter of the 2001 water year, January through March, brought continued drier conditions to the State. March was the only month during the quarter in which any of the index sites, with the exception of Elizabeth City, reported above-average precipitation amounts. All of the index sites reported below-average precipitation amounts for the quarter. The least rainfall was reported in Elizabeth City at 4.49 inches below average. Asheville, Charlotte, Greensboro, and Wilmington all reported rainfall from 0.40 to 2.20 inches below average.

The third quarter, April through June, again brought below-average amounts of rainfall across the State. Raleigh and Elizabeth City were the only locations to report above-average monthly rainfall, which both occurred in June. Quarterly precipitation amounts fell further below average during the third quarter at all the index sites across the State with the exception of Raleigh and Elizabeth City. Asheville was impacted the most by lack of rain, reporting 5.59 inches below average for the quarter. Charlotte, Greensboro, and Wilmington reported rainfall 3 inches less than average for the quarter.

During the fourth quarter, July through September, Asheville (1.18 inches) reported rainfall above average. The remaining index sites reported below-average conditions with departures ranging from 1.44 to 5.72 inches for the quarter; Charlotte (4.15 inches), Greensboro (1.44 inches), Raleigh (4.25 inches), Wilmington (3.22 inches), and Elizabeth City (5.72 inches).

In summary, the continued drought condition in North Carolina, which began in 1998, was worsened by below-average annual precipitation throughout the State. The National Weather Service reported below-average annual rainfall amounts at each of the six index sites. Asheville, in the southeastern part of the State, recovered somewhat from below-average rainfall amounts during the fourth quarter of the water year. The National Weather Service reported the following annual rainfall amounts for the 2001 water year at these selected stations: Asheville, 36.75 inches (10.29 inches below average); Charlotte, 26.48 inches (17.03 inches below average); Greensboro, 31.77 inches (11.36 inches below average); Raleigh, 32.70 inches (10.35 inches below average); Elizabeth City, 31.54 inches (15.44 inches below average); and Wilmington, 44.59 inches (12.48 inches below average).

Surface Water

Streamflow conditions in North Carolina are influenced greatly by precipitation. Rainfall can produce rapid responses in streamflow. Streamflow also declines following periods of low rainfall. The rate and magnitude of decline depend on basin size, the season, evapotranspiration, and the amount of ground water in storage at the onset of the dry period. The effects on streamflow of variable rainfall in North Carolina during the 2001 water year are illustrated in figures 3-8. Monthly conditions are depicted in maps (figs. 3 and 4) that show the regions of above-normal, normal, and below-normal streamflow.

Data for the 30-year base period, 1971-2000, from 35 index gaging stations across the State were used to compute monthly flow statistics (figs. 3 and 4). These stations are located on streams that are free of significant regulations or diversions and range in size from about 30 to 1,400 square miles. The descriptors, “above normal,” “normal,” and “below normal,” refer to flow in the upper quartile, the middle two quartiles, and the lower quartile, respectively.

Monthly mean flows recorded at index stations during the 2001 water year were generally below normal. Sites reporting below-normal streamflow were evident each month of the water year. In fact, below-normal streamflow conditions were noted at more than half of the 35 index stations for October through February and April through May. All but one of the index stations recorded below-normal streamflow during the month of May (figs. 3 and 4).

Record low monthly mean discharges were established at one or more index sites for every month except November, March, and July. Twelve sites experienced new record low monthly mean discharges for May. Record low annual mean discharges for the 2001 water year were also recorded at 13 of the 35 index sites (table 1).

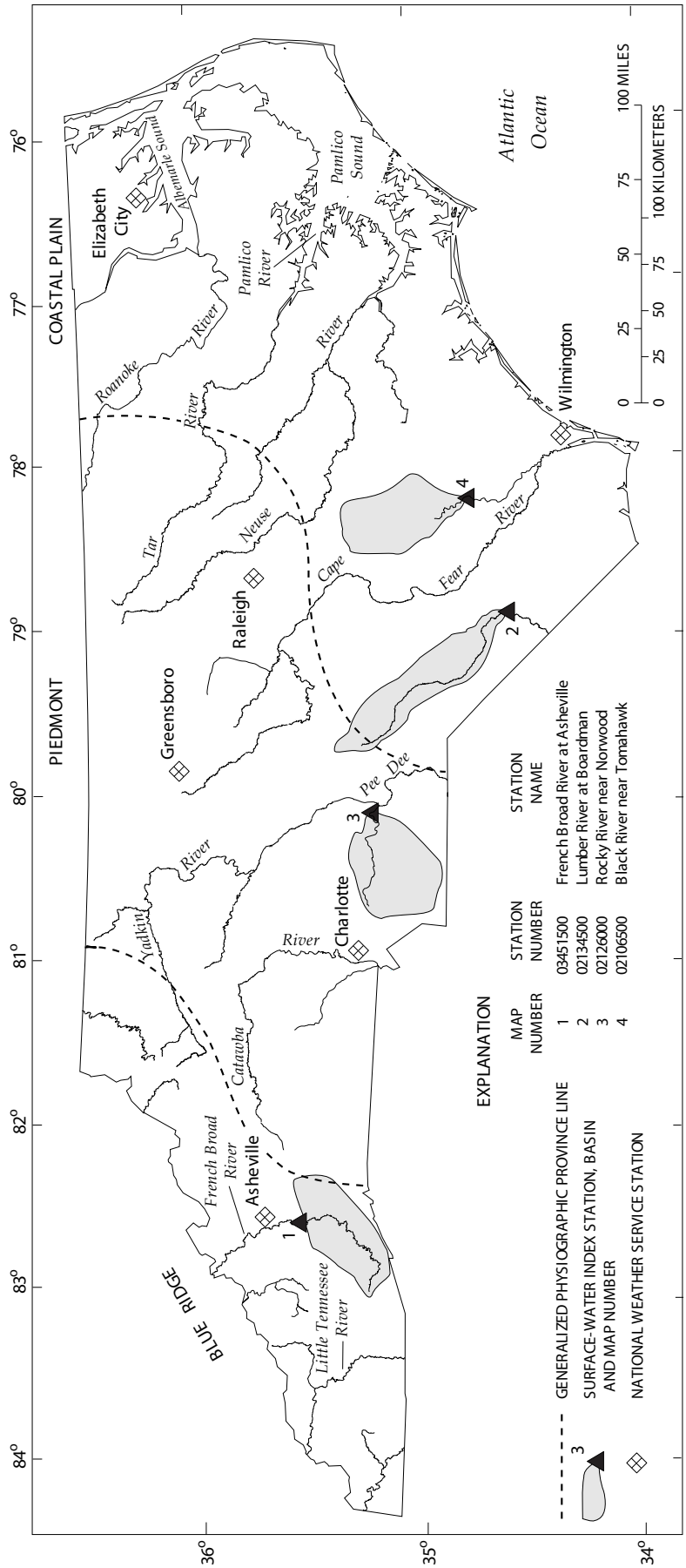


Figure 1.--Location of selected long-term index stations for collecting precipitation and discharge in North Carolina.

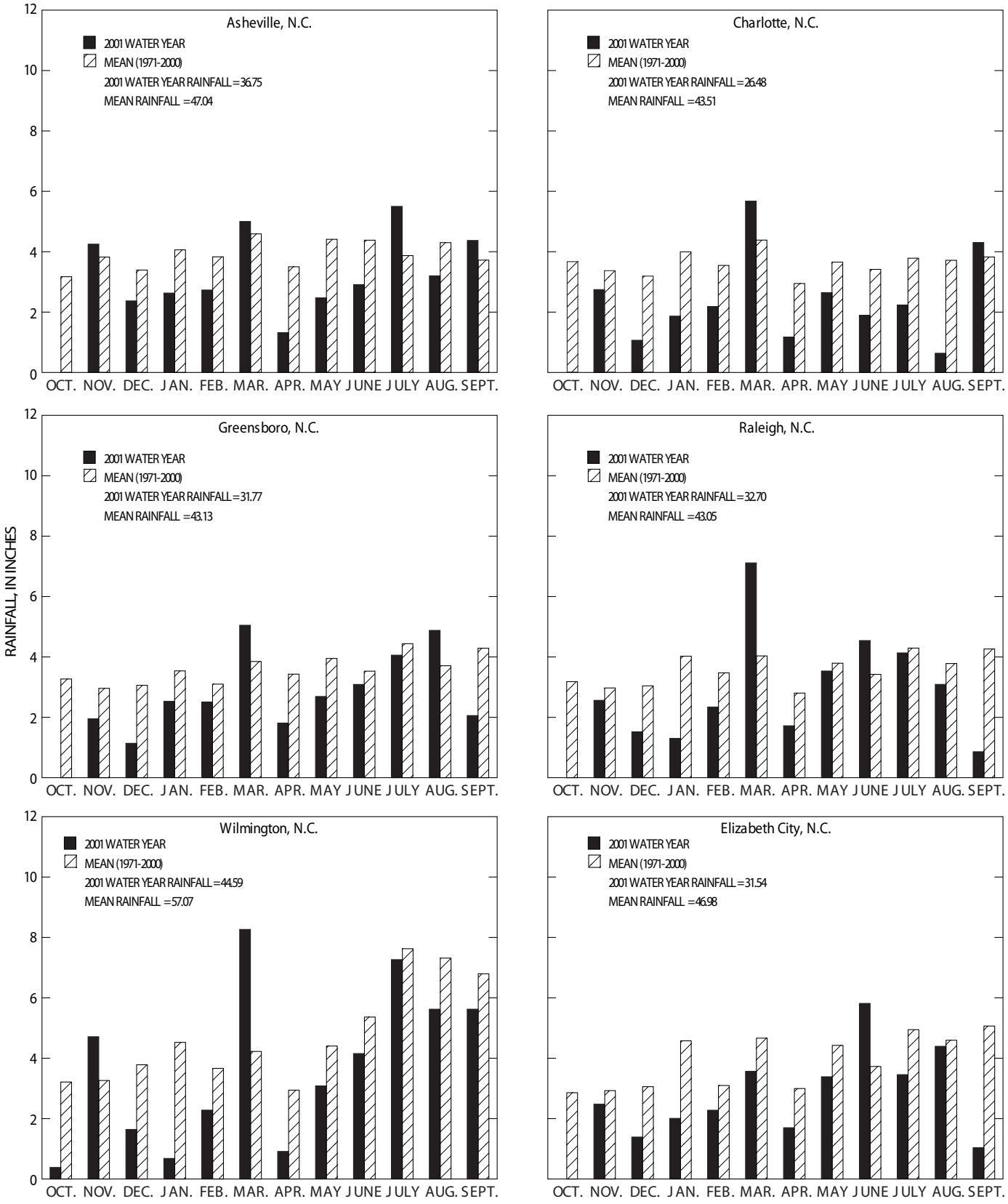


Figure 2.--Monthly rainfall and average monthly rainfall for the period 1971-2000 at index stations for the 2001 water year (data from National Oceanic and Atmospheric Administration reports).

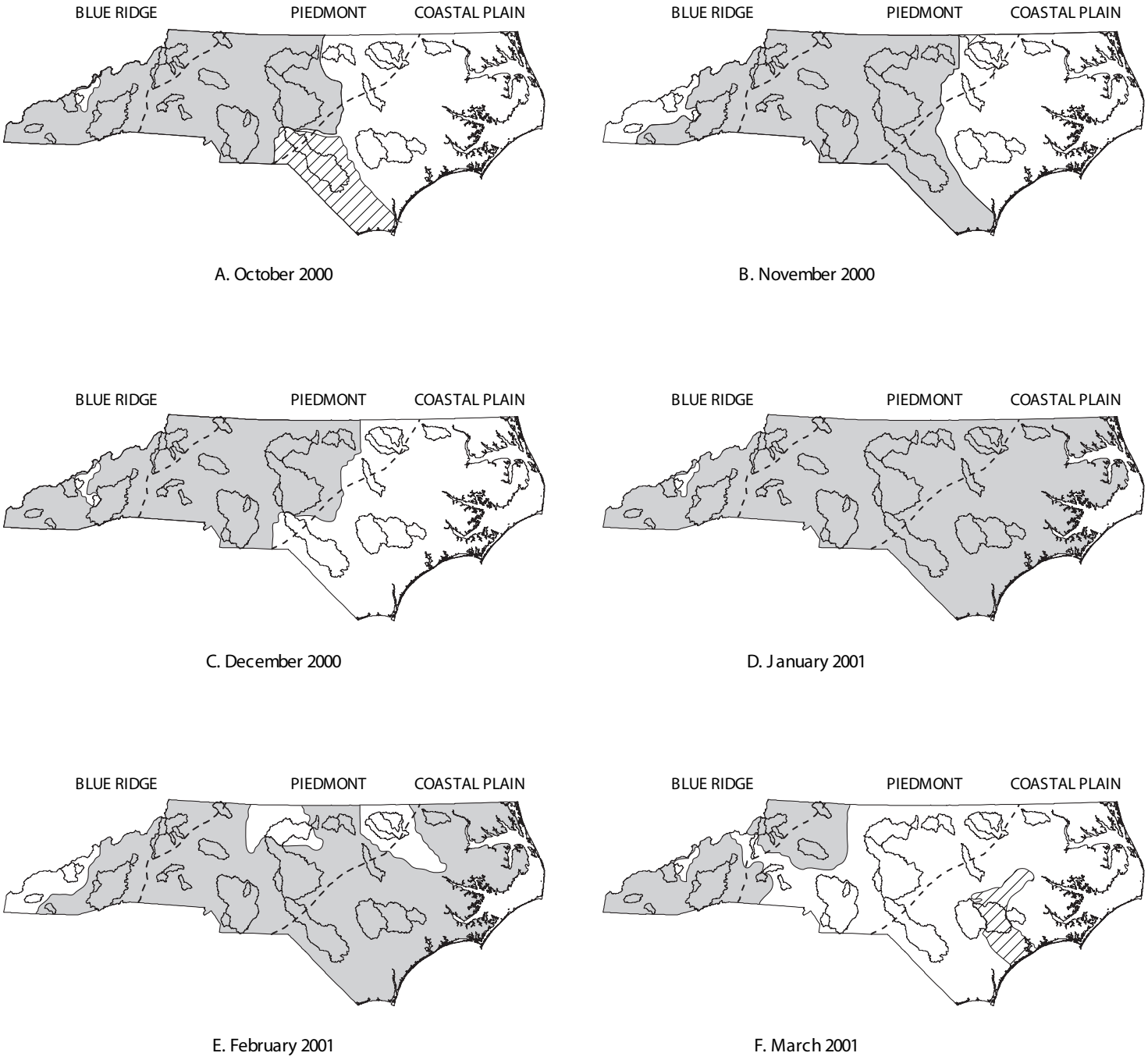


Figure 3.--Monthly streamflow in North Carolina during October - March, 2001 water year.

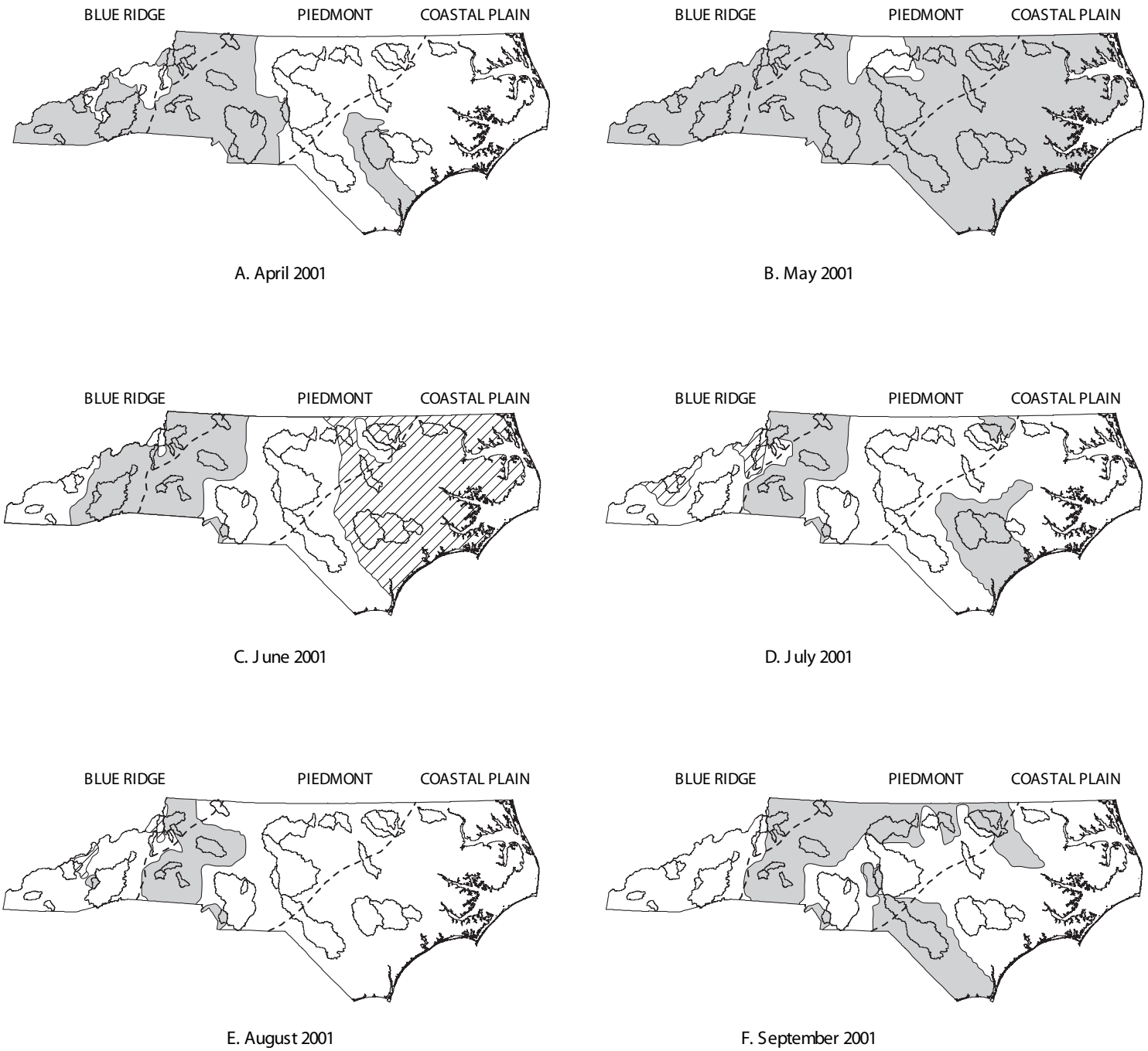


Figure 4.--Monthly streamflow in North Carolina during April - September, 2001 water year.

Table 1.--Index stream-gaging stations recording new period of record minimum annual mean discharges during the 2001 water year

Station name	USGS station number	Years of record	Drainage area (square miles)	Record low annual mean discharge for period of record (cubic feet per second)
Deep River at Moncure, N.C.	02102000	72	1,434	531
Yadkin River at Patterson, N.C.	02111000	62	28.8	21.0
Elk Creek at Elkville, N.C.	02111180	36	48.1	35.7
Fisher River near Copeland, N.C.	02113000	70	128	80.2
South Yadkin River near Mocksville, N.C.	02118000	63	306	124
Big Bear Creek near Richfield, N.C.	02125000	48	55.6	18.2
Rocky River near Norwood, N.C.	02126000	72	1,372	446
Little River near Star, N.C.	02128000	48	106	32.1
Henry Fork near Henry River, N.C.	02143000	68	83.2	51.0
Indian Creek near Laboratory, N.C.	02143500	51	69.2	33.4
Twelve Mile Creek near Waxhaw, N.C.	02146900	41	76.5	15.5
First Broad River near Casar, N.C.	02152100	43	60.5	29.5
South Fork New River near Jefferson, N.C.	03161000	75	205	222

Responses of daily streamflow to basinwide weather patterns throughout the year at four long-term (1971-2000) index stations across the State (fig. 1) are shown in figures 5-8. The daily mean discharge hydrograph for the 2001 water year is superimposed on the long-term median daily mean discharge hydrograph for each of these index stations. Daily mean discharge fluctuated both above and below the median daily mean discharge at the four sites but was generally less than the median for most of the 2001 water year.

In summary, below-average precipitation occurred during the 2001 water year throughout much of the State. Annual departure from normal precipitation totals for the six index weather stations were reported as follows: Asheville, 10.29 inches below average; Charlotte, 17.03 inches below average; Greensboro, 11.36 inches below average; Raleigh, 10.35 inches below average; Wilmington, 12.48 inches below average; Elizabeth City, 15.44 inches below average. Streamflow conditions reflected the rainfall pattern across the State, yielding below-normal streamflow conditions throughout much of the year.

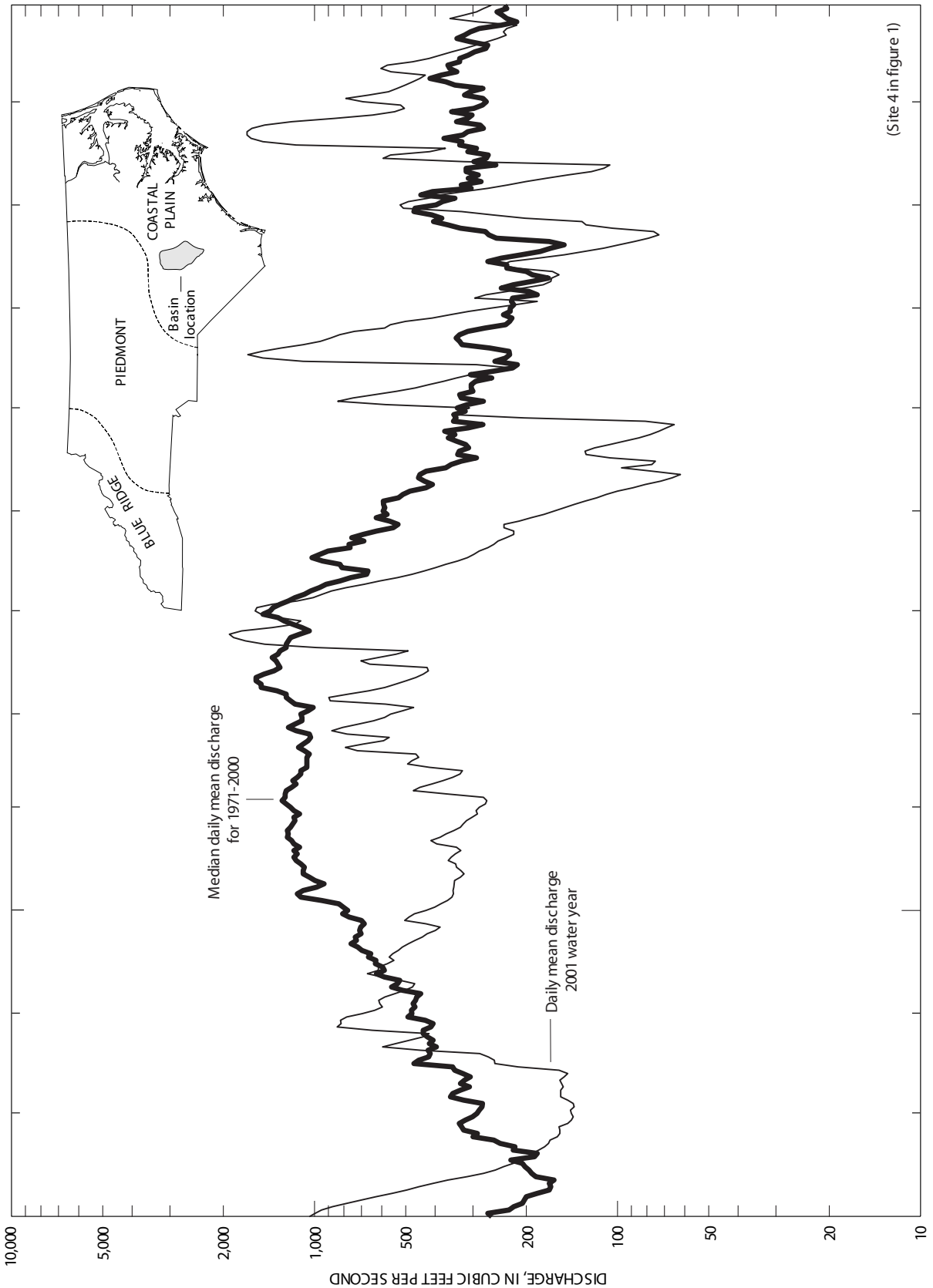


Figure 5.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Black River near Tomahawk (02106500).

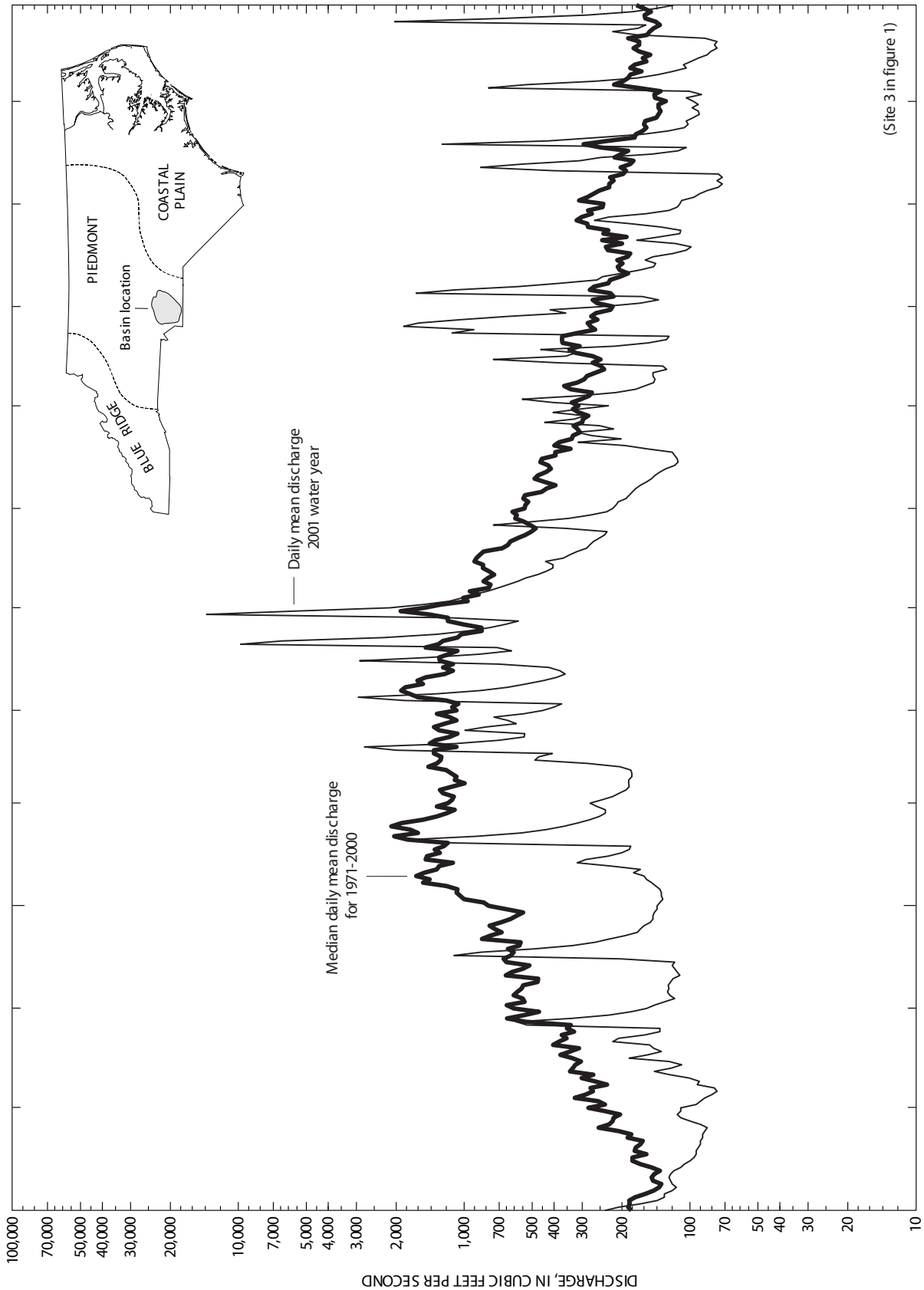


Figure 6.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Rocky River near Norwood (02126000).

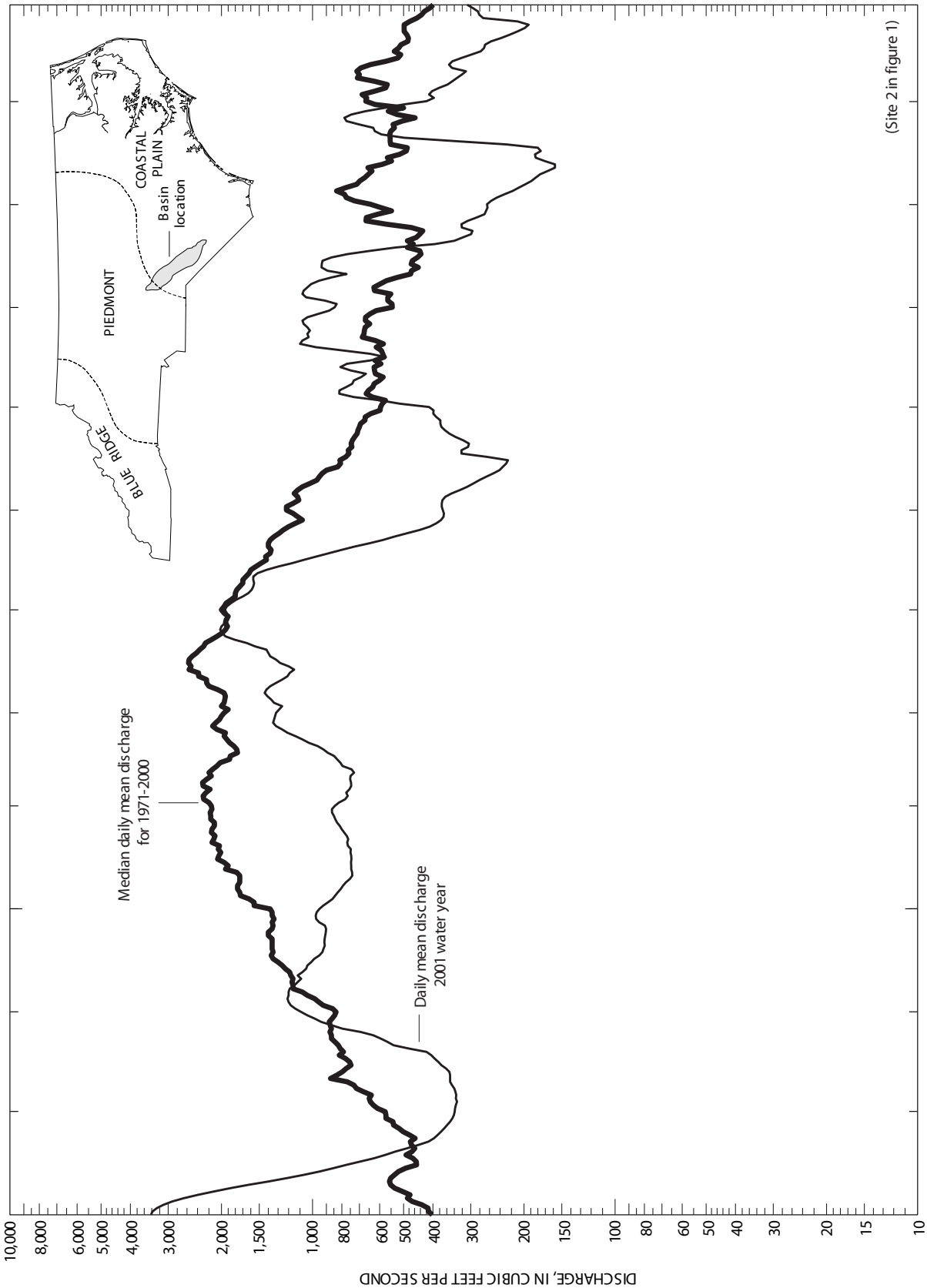


Figure 7.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for Lumber River at Boardman (02134500).

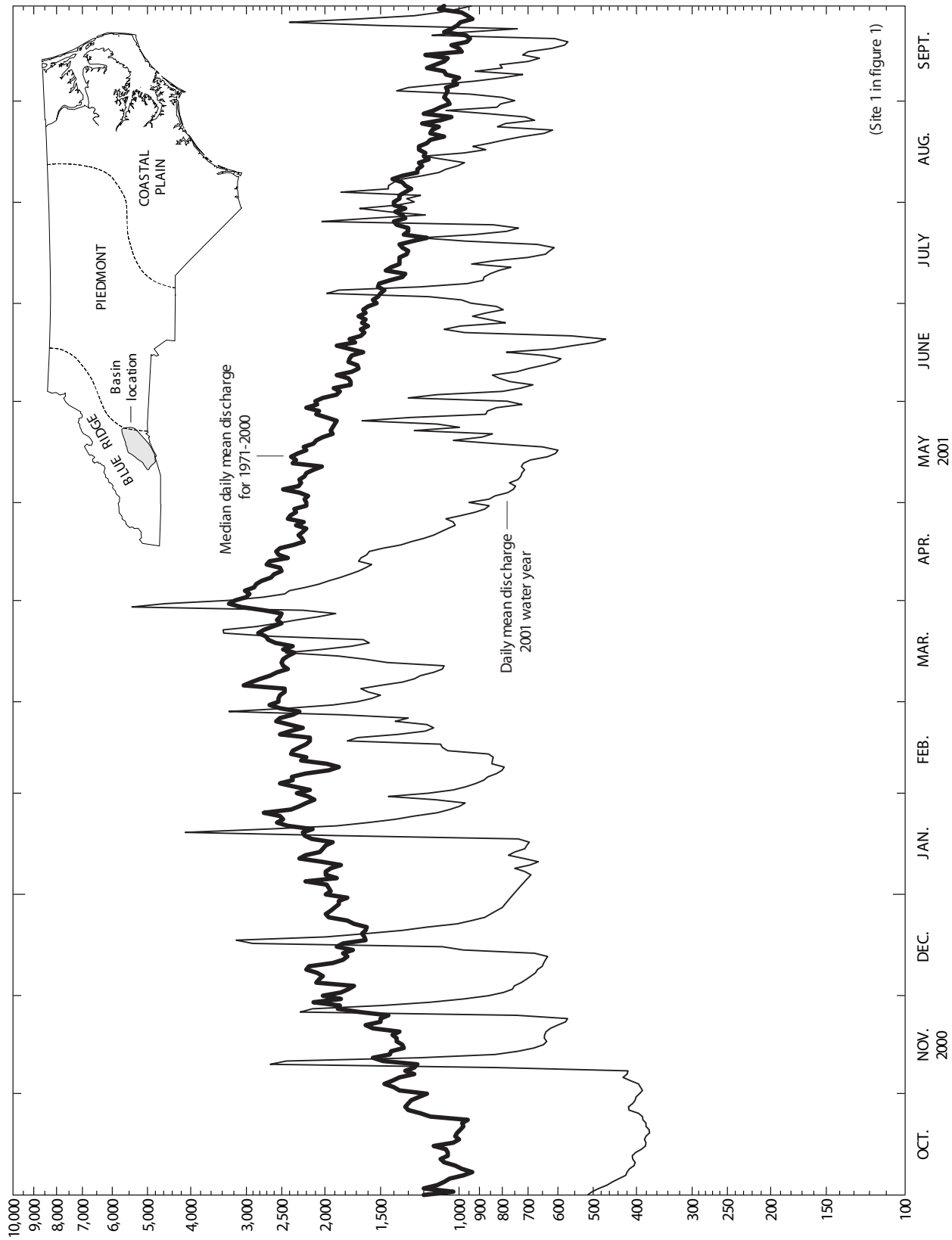


Figure 8.--Daily mean discharge for 2001 water year and median daily mean discharge for 1971-2000 water years for French Broad River at Asheville (03451500).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the streamflow representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities. At 10 of these sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the affects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program can be found at http://water.usgs.gov/hbn/.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations were operated in the Mississippi, Columbia, Colorado, and Rio Grande. From 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia so that a network of 5 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 Program (NAWQA); (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 can be found at at http://water.usgs.gov/nasqan/.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) 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 a network of 225 precipitation chemistry monitoring 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 all data from the individual sites, can be found at http://bqs.usgs.gov/acidrain/.

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey 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; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 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 will be 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 decision making by water-resources managers 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 to collaborate efforts among the agencies. Additional information about the NAWQA Program can be found at http://water.usgs.gov/nawqa/nawqa_home.html.

EXPLANATION OF RECORDS

The surface-water records published in this report are for the 2001 water year that began October 1, 2000, and ended September 30, 2001. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, and water-quality data. Locations of the stations where the data were collected are shown in figures. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the USGS to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on

geographic location. The "downstream order number" system is used for surface-water stations, and the "latitude-longitude" system is used for miscellaneous surface-water sites and wells.

Downstream Order System

Since October 1, 1950, the order of listing hydrologic-station records in USGS reports is in a 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 that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indention in the "List of Stations" in the front of this report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

The station identification number is assigned according to downstream order. In assigning station numbers, 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 made up of both types of stations. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight- or ten-digit number for each station, such as 02053200 (0208700780), which appears just to the left of the station name, includes the two-digit part number "02" plus the six- or eight digit downstream-order number "053200." The part number designates the major river basin; for example, part "02" is the South Atlantic Slope Basin.

Latitude-Longitude System

The identification numbers for wells and miscellaneous surface-water sites are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude; and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site identification number, once assigned, is a part number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description (fig. 9).

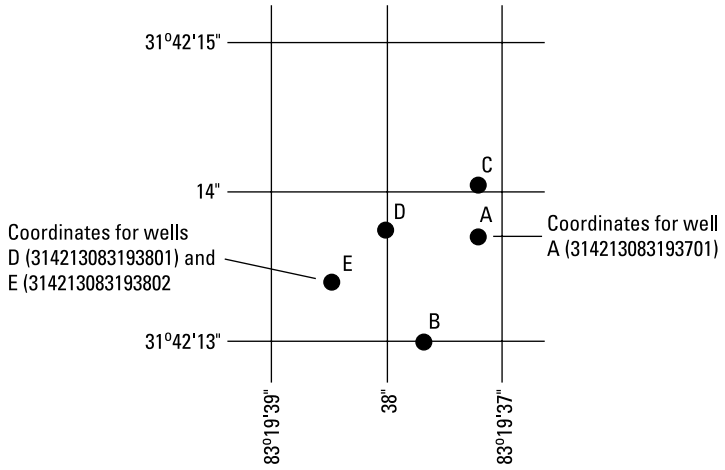


Figure 9.--System for numbering miscellaneous sites and wells.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those obtained using a continuous stage-recording device through which either instantaneous or mean daily discharges can be computed for any time, or any period of time, during the period of record. Complete records of lake or reservoir content, similarly, are those for which stage or content can be computed or estimated with reasonable accuracy for any time, or period of time. They may be obtained using a continuous stage-recording device, but need not be. Because daily mean discharges and end-of-day contents commonly are published for such stations, they are referred to as "daily stations."

By contrast, partial records are obtained through discrete measurements without using a continuous stage-recording device and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles, such as "Crest-stage partial records," or "Low-flow partial records." Records of miscellaneous discharge measurements or of measurements from special studies, such as low-flow seepage studies, may be considered as partial records, and they are presented separately in this report.

Data Collection and Computation

The data obtained at a complete-record gaging station on a stream or canal consists of a continuous record of stage, individual measurements of discharge throughout a range of stages, and notations regarding factors that can affect the relationships between stage and discharge. These data, together with supplemental information, such as weather records, are used to compute daily discharges. The data obtained at a complete-record gaging station on a lake or reservoir consist of a record of stage and of notations regarding factors that can affect the relationship between stage and lake content. These data are used with stage-area and stage-capacity curves or tables to compute water-surface areas and lake storage.

Continuous records of stage are obtained by analog-digital recorders that punch stage values on paper tapes at selected time intervals, or electronic data loggers that either store data electronically on site or transmit it by satellite or telephone telemetry to a computer at the office. Measurements of discharge are made with current meters using methods adapted by the USGS as a result of experience accumulated since 1880. These methods are described in standard textbooks, in Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water-Resources Investigations (TWRI), Book 3, Chapter A6.

In computing streamflow records, results of individual discharge measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables are prepared indicating the approximate discharge for any stage within the range of the measurements. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using (1) logarithmic plotting; (2) velocity-area studies; (3) results of indirect measurements of peak discharge, such as slope-area or contracted-opening measurements, and computations of flow over dams or weirs; or (4) step-backwater techniques.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in physical features that form the control, the daily mean discharge is determined by the shifting-control method, in which correction factors based on individual discharge measurements, and notes of the personnel making the measurements, are applied to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of aquatic growth or debris on the control. For some stations, formation of ice in the winter can so obscure the stage-discharge relations that daily mean discharges must be estimated from other information such as temperature and precipitation records, notes of observations, and records for other stations in the same or nearby basins for comparable periods.

At some stream-gaging stations, the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates 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 set at some distance from the base gage. 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.

In computing records of lake or reservoir contents, it is necessary to have surveys available from curves or tables that define the relationship of stage and content. The tables are developed from bathymetric surveys. The application of stage to stage-content curves or tables gives the contents from which daily, monthly, or yearly changes are then determined. If the stage-content relationship changes because of deposition of sediment in a lake or reservoir, periodic resurveys may be necessary to redefine the relationship. Even when this is done, the computed contents may become increasingly in error over time, as time since the last survey increases. Discharges over lake or reservoir spillways are computed from stage-discharge relationships much as other stream discharges are computed.

For some gaging stations there are periods when no gage-height record is obtained, or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, daily discharges are estimated from the recorded range in stage, previous or following record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise, daily contents can be estimated from operator’s logs, previous or following record, inflow-outflow studies, and other information. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections.

Data Presentation

Streamflow data in this report are presented in a new format that is considerably different from the format in data reports prior to the 1991 wateryear. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data

Data Presentation--Continued

table, and less information is provided in the text or station manuscript above the table. These changes were made as a result of a pilot program to reformat the annual water-data report to meet current user and data preferences.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of five parts: (1) the manuscript or station 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 flow as well as data pertaining to annual runoff, 7-day low-flow minimums, and flow duration; (5) and 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 that follow clarify information presented under the various headings of the station description.

LOCATION.-- Information on site locations is obtained from the most accurate maps available. The location of the gage is given with respect to cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name. River miles, given for only a few stations, were either 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 reported as National American Datum of 1927 unless otherwise specified.

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 indicates the period for which there are published records for the station or for an equivalent station. An equivalent station is one that was in operation at a time when the present station was not, and in a location such that records from it can reasonably be considered equivalent to records from the present station.

REVISED RECORDS.--Because of new information, published records occasionally are found to be incorrect, and revisions are printed in later reports. Listed under this heading are all of the reports in which revisions have been published for the station and the water years for which the revisions apply. If a revision did not include daily, monthly, or annual figures of discharge, that fact is noted after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" means that only the instantaneous minimum was revised; and "(P)" means that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referenced to sea level (see glossary), and a condensed history of the types, locations, and datums of previous gages are given under this heading. Datums used in this report are reported as National Geodetic Vertical Datum of 1929 (NGVD29) unless otherwise noted.

REMARKS.--All periods of estimated daily-discharge record will either be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily-discharge table. (See next section, "Identifying Estimated Daily Discharge.") If a statement is used to identify estimated record, the paragraph will begin with this information presented as the first entry. The paragraph is also used to present information relative to the accuracy of the records, to special methods of computation, to conditions that affect natural flow at the station, information regarding extremes for period of record and current year data and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and 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.--Included here is information concerning major floods or unusually low flows that occurred outside the stated period of record. This information may or may not have been obtained by the USGS.

REVISIONS.--If errors in published stage and water discharge records are discovered after publication, appropriate updates are made in the U.S. Geological Survey’s distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis], as well as including a revision in the first report published following the discovery of the error. Potential users of U.S. Geological Survey stage and water discharge records are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates.

Data Presentation--Continued

Although rare, occasionally the records of a discontinued gaging station may need revision. Because, for these stations, there possibly would be no current or future station manuscript published to document the revision in a "Revised Records" entry, data users who obtained the record from previously published data reports may wish to contact the District office to determine if the published records were ever revised after the station was discontinued. If the data were obtained by computer retrieval, however, the data would be current, and 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 skeleton stage-capacity table when daily contents are given.

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 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 also is usually 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"). Figures for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if there is extensive regulation or diversion 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 contents are given. These figures are identified by a symbol and corresponding footnote.

Statistics of monthly mean data

A tabular summary of the mean (line headed "MEAN"), maximum (line headed "MAX"), and minimum (line headed "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 figures. 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. It will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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, "FOR WATER YEARS ____-____," will consist of all of the station record within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be 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 this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, 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. At some stations the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations the yearly mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

Data Presentation--Continued

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 occurring 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.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in district computer files for stations meeting certain criteria. Those discharge values can be obtained by writing to the District office. (See address on back of title page of this report.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, 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 (AC-FT).--Indicates the depth, in acre-feet, to which the drainage area would be covered if all of the runoff for the year were uniformly distributed on it.

ANNUAL RUNOFF (CFSM).--Indicates the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area for the year.

ANNUAL RUNOFF (INCHES).--Indicates the depth to which the drainage area would be covered if all the runoff for the year 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 presents annual maximum stage and discharge at crest-stage stations, and the second table presents 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 generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some 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 either by flagging individual daily values with the letter "e" and noting in a table footnote, "e Estimated," and/or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of the Records

The accuracy of streamflow records 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 measurements of stage, measurements of discharge, and interpretation of records.

The accuracy attributed to the records is indicated under "REMARKS." "Excellent" means that about 95 percent of the daily discharges are within 5 percent of the true; "good," within 10 percent; and "fair," within 15 percent. Records that do not meet the criteria mentioned are rated "poor." Different accuracies may be attributed to different parts of a given record.

Accuracy of the Records--Continued

Daily mean discharges in this report are given to the nearest hundredth of a cubic foot per second (ft^3/s) for values less than 1 ft^3/s; to the nearest tenth, between 1.0 and 10 ft^3/s; to whole numbers, between 10 and 1,000 ft^3/s; and to three significant figures for values more than 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 discharges listed for partial-record stations and miscellaneous sites.

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 as a result of artificial causes, or to other factors. For such stations, figures 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 affected by 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 to the observed discharge.

Other Records Available

Information used in the preparation of the records in this publication, such as discharge-measurement notes, gage-height records, temperature measurements, and rating tables, are on file in the North Carolina District office. Also, most of the daily mean discharges are in computer-readable form and have been analyzed statistically. Information on the availability of unpublished information or on the results of statistical analyses of published records can be obtained from the District office.

Records of Precipitation

Data Collection and Computation

Rainfall data were generally collected by electronic data loggers in 0.01-in. increments every 15 minutes using either tipping-bucket rain gages or collection well gages. Twenty-four hour rainfall totals are tabulated and presented. A 24-hour period extends from just past midnight the previous day to midnight 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 a "---" in the table.

Data Presentation

Precipitation records collected at surface-water gaging stations are identified by the same station number and name as the gaging station. Where a surface-water, daily-record station is not available, the precipitation record is published with its own name and latitude-longitude 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, as appropriate, is provided with each precipitation station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.--See Data Presentation under "Records of Stage and Water Discharge", same comments apply.

PERIOD OF RECORD.--See Data Presentation under "Records of Stage and Water Discharge", same comments apply.

INSTRUMENTATION. -- Information on the type of rainfall collection system isgiven.

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

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report may 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 continuing- or partial-record station, where random 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* which refers 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 12 and 13.

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, as described by Wagner and others (2000). Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating 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 physical property	Ratings			
	Excellent	Good	Fair	Poor
Water temperature	≤ ± 0.2°C	> ± 0.2 to 0.5°C	> ± 0.5 to 0.8°C	> ± 0.8°C
Specific conductance	≤ ± 3%	> ± 3 to 10%	> ± 10 to 15%	> ± 15%
Dissolved oxygen	≤ ± 0.3 mg/L	> ± 0.3 to 0.5 mg/L	> ± 0.5 to 0.8 mg/L	> ± 0.8 mg/L
pH	≤ ± 0.2 unit	> ± 0.2 to 0.5 unit	> ± 0.5 to 0.8 unit	> ± 0.8 unit
Turbidity	≤ ± 5%	> ± 5 to 10%	> ± 10 to 15%	> ± 15%

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.

On-Site 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 assure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made on site when the samples are taken. 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 on-site measurements and for collecting, treating, and shipping samples are given in publications on Techniques of Water-Resources Investigations," Book 1, Chap. D2; Book 3, Chap. A1, A3, and A4; Book 9, Chap. A1-A9. All of these references are listed on pages 40 through 44 of this report. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS North Carolina District office.

It is possible for one sample to adequately define 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 can 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 through several vertical sections to obtain a representative sample for use in determining an accurate mean concentration and for use in calculating load. All samples obtained for the National Stream Quality Accounting Network (see definitions) are obtained from at least several verticals. Whether samples are obtained from the centroid of flow or from several vertical depends on flow conditions and other factors which must be evaluated by the collector.

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, minimum, and mean values for each constituent measured and are based upon hourly punches beginning at 0100 hours and ending at 2400 hours for the day of record. More detailed records (hourly values) can be obtained from the USGS North Carolina District office at the address given on the back of the title page of this report.

NOTICE: Values of dissolved and total selenium exceeding 5 mg/L in samples collected prior to 1975 are probably incorrect and should only be used with caution. Values of dissolved selenium greater than 1 mg/L collected prior to 1975 should also be considered questionable, although a fair percentage of them may, in fact, be correct.

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 District office.

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 sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were 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 were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, 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

Sediment samples, and samples for biochemical oxygen demand (BOD), and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Arvada, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chap. C1. Methods used by the USGS laboratories are given in the TWRI's, Book 1, Chap. D2; Book 3, Chap. C2; and Book 5, Chaps. A1, A3, and A4.

The U.S. Geological Survey 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-MDL's) and laboratory reporting levels (LRL's). 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. The chance of 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 non-detection 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 <LRL for samples in which the analyte was either not detected or did not pass identification. Analytes that are detected at concentrations between the LT-MDL and 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.

In March 1990 the National Water-Quality Laboratory discovered a bias in the turbidimetric method for sulfate analysis, indicating that values below 75 mg/L have a median positive bias of 2 mg/L above the true value for the period between 1982 and 1990.

MBAS determinations made from January 1, 1970 through August 29, 1993, at the National Water Quality Laboratory in Denver (Analyzing Agency Code 80020) are positively biased. These data can be corrected on the basis of the following equation, if concentrations of dissolved nitrate plus nitrate, as nitrogen, and dissolved chloride, determined concurrently with the MBAS data, are applied:

MBASCOR = M - 0.0088N - 0.00019C

where:

MBASCOR = corrected MBAS concentration, in mg/L;
M = reported MBAS concentration, in mg/L;
N = dissolved nitrate plus nitrate, as nitrogenconcentration, in mg/L; and
C = dissolved chloride concentration, in mg/L.

The detection limit of the new method is 0.02 mg/L, whereas the detection limit for the old method was 0.01 mg/L. A detection limit of 0.02 mg/L should be used with corrected MBAS data from January 1, 1970 through August 29, 1993.

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, as appropriate, 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 under "Records of Stage and Water Discharge;" same comments apply.

DRAINAGE AREA.--See Data Presentation under "Records of Stage and Water Discharge;" same comments apply.

PERIOD OF RECORD.--This indicates the periods for which there are published water-quality records for the station. 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.--If errors in published water-quality records are discovered after publication, appropriate updates are made in the U.S. Geological Survey’s distributed data system, NWIS, and subsequently to its web-based National data system, NWISWeb [http://water.usgs.gov/nwis/nwis]. Because the usual volume of updates makes it impractical to document individual changes in the State data-report series or elsewhere, potential users of U.S. Geological Survey water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure the most recent updates. Updates to the NWISWeb are currently 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.

Remarks Codes

The following remarks codes may appear with the water-quality data in this report:

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.
K	Results based on colony count outside the acceptance range (nonideal colony count).
L	Biological organism count less than 0.5 percent (organism may be observed rather than counted).
D	Biological organism count equal to or greater than 15 percent (dominant).
V	Analyte was detected in both the environmental sample and the associated blanks.
&	Biological organism estimated as dominant.

Dissolved Trace-Element Concentrations

NOTE.--Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (ug/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's to 100's of nanograms per liter (ng/L). Data above the ug/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes; however, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994.

Change in National Trends Network Procedures

NOTE.--Sample handling procedures at all National Trends Network stations were changed substantially on January 11, 1994, in order to reduce contamination from the sample shipping container. The data for samples before and after that date are different and not directly comparable. A tabular summary of the differences based on a special intercomparison study, is available from the NADP Program Office, Illinois State Water Survey, 2204 Griffith Drive, Champaign, IL 61820-7495 (217-333-7873).

Water Quality-Control Data

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 this district 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 by 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. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collected in this district are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

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 environment sample.

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

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

Reference Samples

Reference material is a solution or material prepared by a laboratory whose 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. There are many types of replicate samples 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 sample – a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating 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 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.

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 at

http://water.usgs.gov

Some water-quality and ground-water data also are available through the WWW. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (See address on the back of the title page.)

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, 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 on the inside of the back cover.

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.

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.

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 to 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 weight percent of the hydrogen substituted chlorine.

Artificial substrate is a device that is purposely 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 taken. 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 the 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")

Bacteria are microscopic unicellular organisims, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while 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.

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 peaks per year will be published.

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.

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

Bedload discharge (tons per day) is 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" and "Sediment")

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

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 which are autotrophic (plants). This is also called the Autotrophic Index.

Blue-green algae (*Cyanophyta*) are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water. Concentrations are expressed as a number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

Bottom material (See "Bed material")

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 are generally reported as cells or units per milliliter (mL) or liter (L).

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used 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 on 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:

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

pi is the ratio of the circumference to the diameter of a circle; pi = 3.14159…

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

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

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 warm-blooded animals. Clostridial spores are being used experimentally as an indicator of past fecal contamination and 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 waters 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. (See also "Aquifer")

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 downstream from a gaging station that physically influences 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-feet" sometimes is used synonymously with "cubic feet 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 are numerically 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 concentration of suspended sediment passing a stream cross section during a 24-hour day. (See also "Daily mean suspended-sediment concentration," "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 periodic sample or 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 are usually 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 UTM coordinates. (See also "Gage datum," "Land-surface datum," "National Geodetic Vertical Datum of 1929," and "North American Vertical Datum of 1988")

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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 sediments or other constituents suspended or dissolved in the water) that passes a cross section in a stream channel, canal, pipeline, etc., 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 chemical constituents, 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 0.4926 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")

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded 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 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 are generally considered pollution sensitive, the index usually decreases with pollution.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded 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. 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 qualitatively identified 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 (<).

Euglenoids (*Euglenophyta*) are a group of algae that are usually 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 semi-volatile and extractable by ethyl acetate from air-dried streambed sediments. The ethyl acetate extract is com-

busted, 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 sediments.

Fecal coliform bacteria are present in the intestine or feces of warm-blooded animals. They are often 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 intestine of warm-blooded 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")

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 not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

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 larger than the maximum depth of water. Because the gage datum itself is not an actual physical object, the datum usually is 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 is often 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. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

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.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating "moss" in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample. (See also "Phytoplankton")

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 is commonly 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.co-ops.nos.noaa.gov/tideglos.html*

Hilsenhoff's Biotic Index (HBI) is an indicator of organic pollution which 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 benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic index stations referred to in this report are four 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.), 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 uniformly distributed on it. (See also "Annual runoff")

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

Laboratory Reporting Level (LRL) is generally 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 non-detection 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 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 based on the most current quality-control data and may, therefore, change. [Note: In several previous NWQL documents (Connor and others, 1998; NWQL Technical Memorandum 98.07, 1998), the LRL was called the non-detection value or NDV—a term that is no longer used.)

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

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 web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually 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.

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 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.

Methylene blue active substances (MBAS) are apparent detergents. 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 mg/L 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 (Timme, 1995).

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 of 1929) is a fixed reference adopted as a standard geodetic datum for elevations determined by leveling. It was formerly 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.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

North American Vertical Datum of 1988 (NAVD 1988) is a fixed reference adopted as the official civilian vertical datum for elevations determined by Federal surveying and mapping activities in the U.S. This datum was established in 1991 by minimum-constraint adjustment of the Canadian**,** Mexican, and U.S. 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 sediments. May be reported as dissolved organic carbon (DOC), particulate organic carbon (POC), or total organic carbon (TOC).

Organic mass or volatile mass of the 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 utilizes 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

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. 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 to 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 determined by using a clinometer to estimate left and right bank shading. The values are added together and divided by 180 to determine percent shading relative to a horizontal surface.

Periodic-record station is a site where stage, discharge, sediment, chemical, physical, or other hydrologic measurements 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. While 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 are termed “acidic,” and solutions with a pH greater than 7 are termed “basic.” Solutions with a pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Phytoplankton is the plant part of the plankton. They are usually 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 are commonly 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.

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. 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 in unenriched waters. 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. 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 an element 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.

Recoverable from bed (bottom) material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion 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 non-exceedance 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 non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. 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")

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 used to denote location along a river.

Runoff is the quantity of water that is discharged ("runs off") from a drainage basin in 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")

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. See conversion of units page (inside back cover) for identification of the datum used in this report.

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 influenced by environmental and land-use factors. Some major factors are topography, soil characteristics, land cover, and depth and intensity of precipitation.

Seven-day 10-year low flow (7Q10) is the discharge below which the annual 7-day minimum flow falls in 1 year out of 10 on the long-run average. The recurrence interval of the 7Q10 is 10 years; the chance that the annual 7-day minimum flow will be less than the 7Q10 is 10 percent in any given year. (See also "Recurrence interval" and "Annual 7-day minimum")

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.

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/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 waters, to evaluate mixing of different waters, 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 (<2mm, sand or finer). Below are the class categories expressed as percent covered by fine sediment:

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

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 ft) of the bed material such as that material which is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is operationally defined as the 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 suspended water-sediment sample that is retained on a 0.45-micrometer membrane filter 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 the 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 sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results. Determinations of "suspended, recoverable" constituents are made either by directly analyzing the suspended material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent. (See also "Suspended")

Suspended sediment is the sediment maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid. (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 ft 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/day) 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, 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, based on determinations of (1) dissolved and (2) total concentrations of the constituent. (See also "Suspended")

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.

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 richness is the total number of distinct species or groups and usually decreases with pollution. (See also "Percent Shading")

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchical 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:	Arthropoda
Class:	Insecta
Order:	Ephemeroptera
Family:	Ephemeridae
Genus:	*Hexagenia*
Species:	*Hexagenia limbata*

Temperature preferences:

Cold – preferred water temperature for the species is less than 20 °C or spawning temperature preference less than 16 °C and native distribution is considered to be predominantly north of 45° N. latitude.

Warm – preferred water temperatures for the species is greater than 20 °C or spawning temperature preference greater than 16 °C and native distribution is considered to be predominantly south of 45° N. latitude.

Cool – intermediate between cold and warm water temperature preferences.

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 tons 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 warm-blooded 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 mL 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 "Sediment," "Suspended sediment," "Suspended-Sediment Concentration," "Bedload," and "Bedload discharge")

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")

Trophic group:

Filter feeder – diet composed of suspended plant and/or animal material.

Herbivore – diet composed predominantly of plant material.

Invertivore – diet composed predominantly of invertebrates.

Omnivore – diet composed of at least 25-percent plant and 25-percent animal material.

Piscivore – diet composed predominantly of fish.

Turbidity is the reduction in the transparency of a solution due to the presence of suspended and some dissolved substances. The measurement technique records the collective optical properties of the solution that cause light to be scattered and attenuated rather than transmitted in straight lines; the higher the intensity of scattered or attenuated light, the higher the value of the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU). Depending on the method used, the turbidity units as NTU can be defined as the intensity of light of a specified wavelength scattered or attenuated by suspended particles or absorbed at a method specified angle, usually 90 degrees, from the path of the incident light. Currently approved methods for the measurement of turbidity in the USGS include those that conform to EPA Method 180.1, ASTM D1889-00, and ISO 7027. Measurements of turbidity by these different methods and different instruments are unlikely to yield equivalent values. Consequently, the method of measurement and type of instrument used to derive turbidity records should be included in the "REMARKS" column of the Annual Data Report.

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 pathlength of UV light through a sample.

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 are often 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 (U.S. Environmental Protection Agency, 1996).

Water table is the level in the saturated zone at which the pressure is equal to the atmospheric pressure.

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

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, 2001, is called the "2001 water year."

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 are often 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")

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 p.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 p.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations*, by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 p.

2-D2. *Application of seismic-refraction techniques to hydrologic studies*, by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 p.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations*, by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 p.

2-E2. *Borehole geophysics applied to ground-water investigations*, by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 p.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells*, by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 p.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements*, by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 p.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 p.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 p.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 p.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 p.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 p.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 p.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 p.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 p.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 p.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 p.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 p.

3-A13. *Computation of continuous records of streamflow,* by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 p.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 p.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 p.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 p.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 p.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 p.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 p.

3-A20. *Simulation of soluble waste transport and buildup in surface waters using tracers,* by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 p.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 p.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 p.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 p.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 p.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 p.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 p.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 p.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 p.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 p.

3-B8. *System and boundary conceptualization in ground-water flow simulation,* by T.E. Reilly: USGS–TWRI book 3, chap. B8. 2001. 29 p.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 p.

3-C2. *Field methods for measurement of fluvial sediment,* by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 p.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 p.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 p.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 p.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 p.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 p.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 p.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 p.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 p.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 p.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 p.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 p.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 p.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 p.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 p.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model,* by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 p.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 p.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 p.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 p.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 p.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 p.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 p.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 p.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 p.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 p.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 p.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 p.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling,* by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 p.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 p.

Control at Conetoe Creek near Bethel, North Carolina.

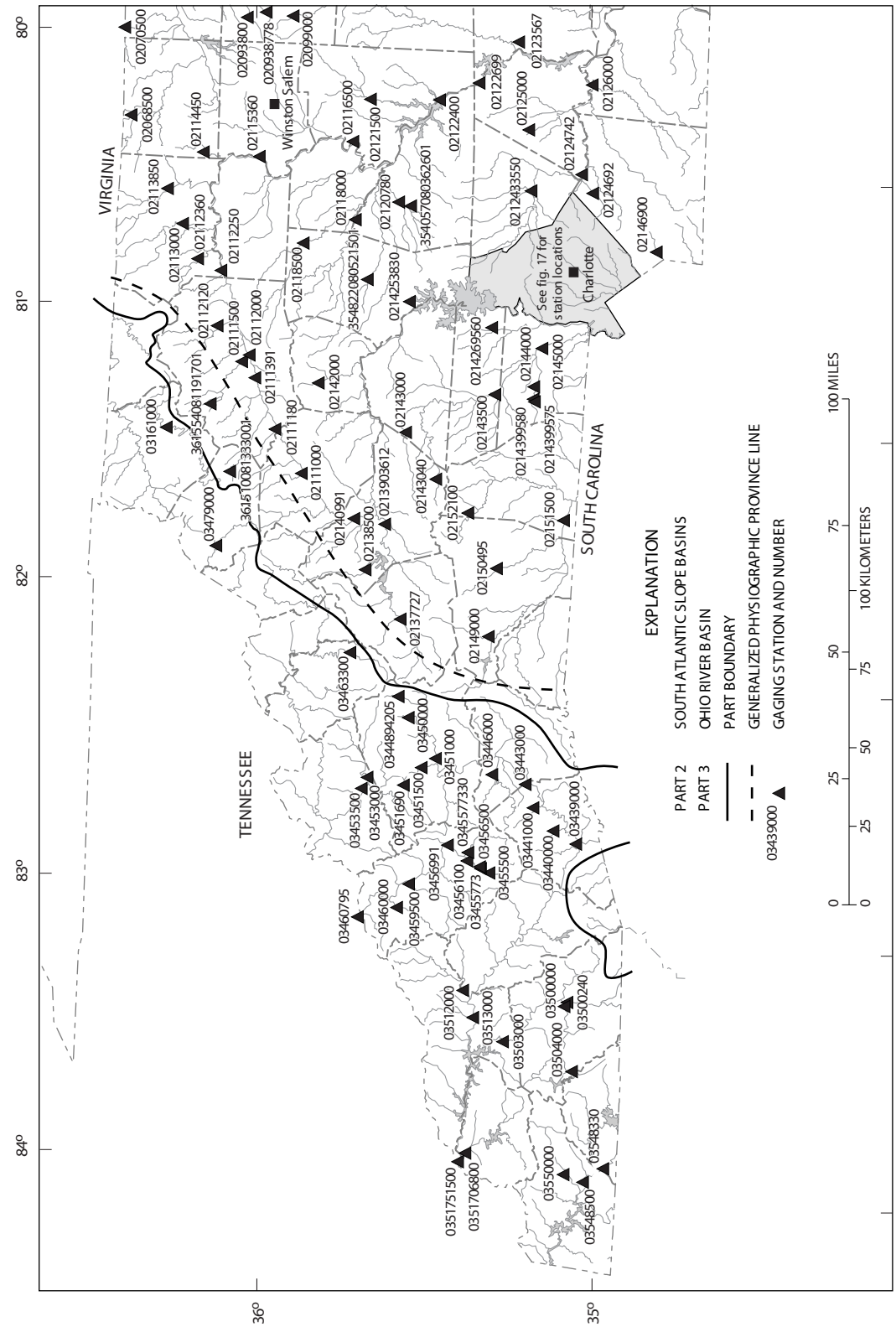


Figure 10.--Locations of gaging stations in western North Carolina.

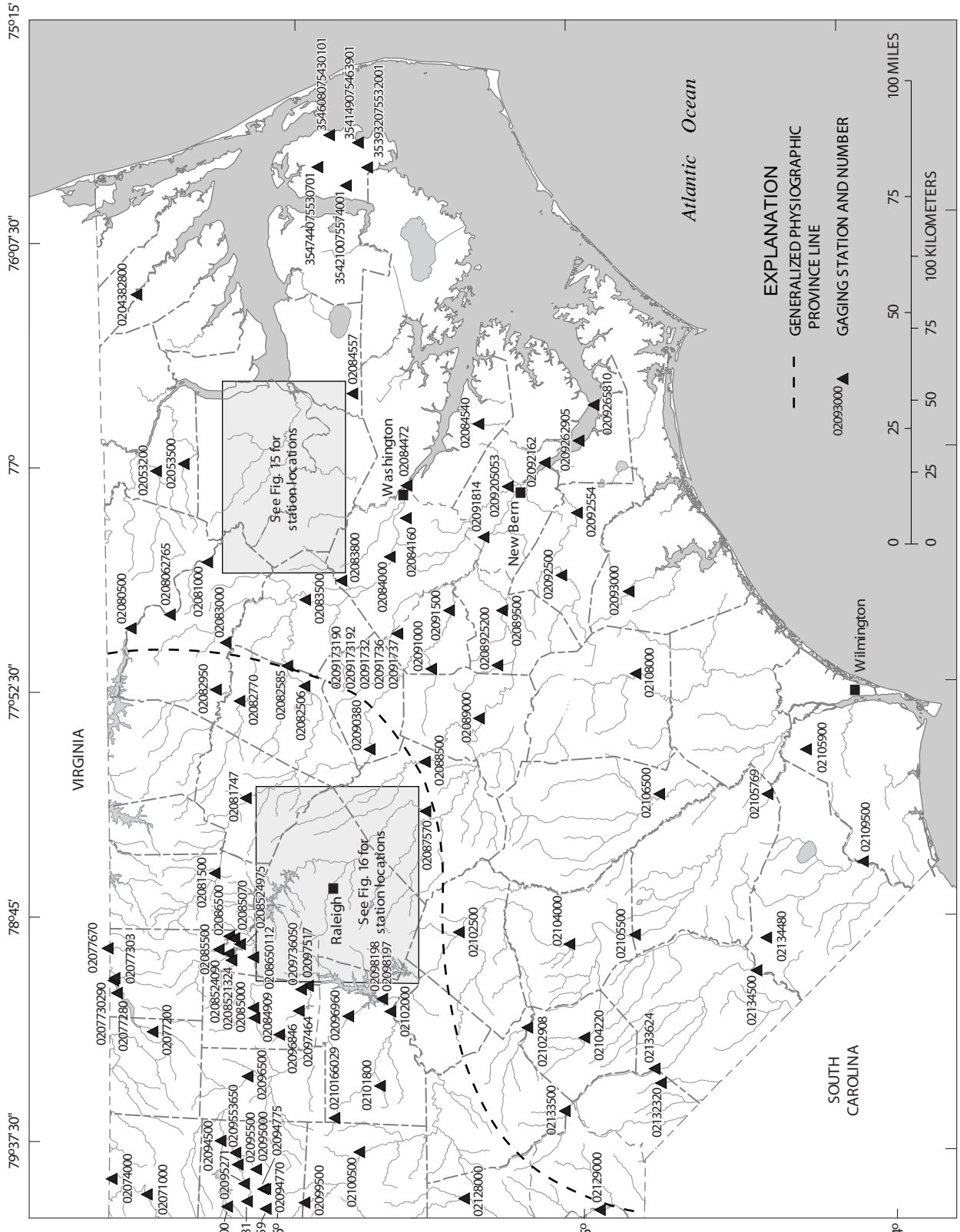


Figure 11.--Locations of gaging stations in eastern North Carolina.

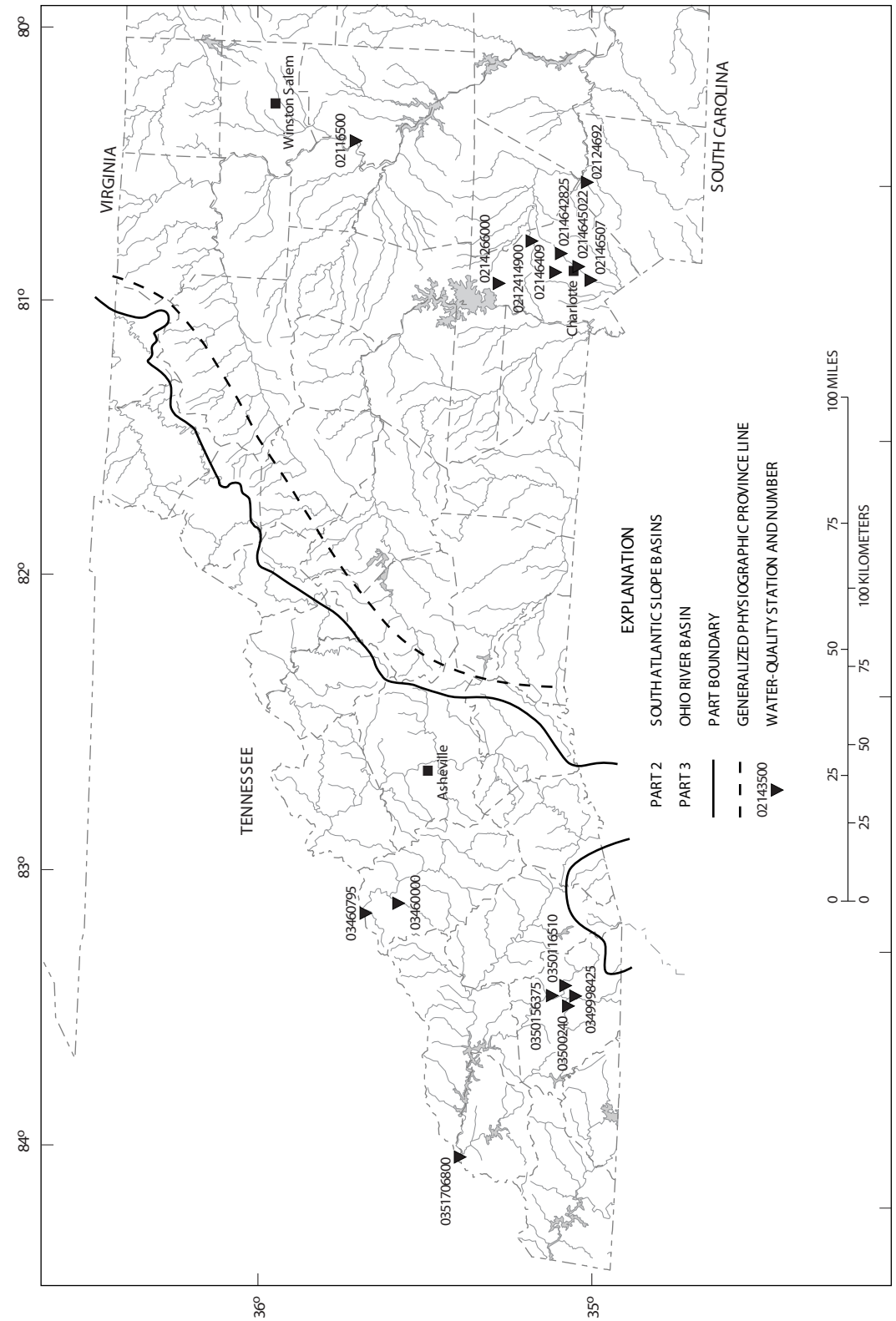


Figure 12.--Locations of water-quality stations in western North Carolina.

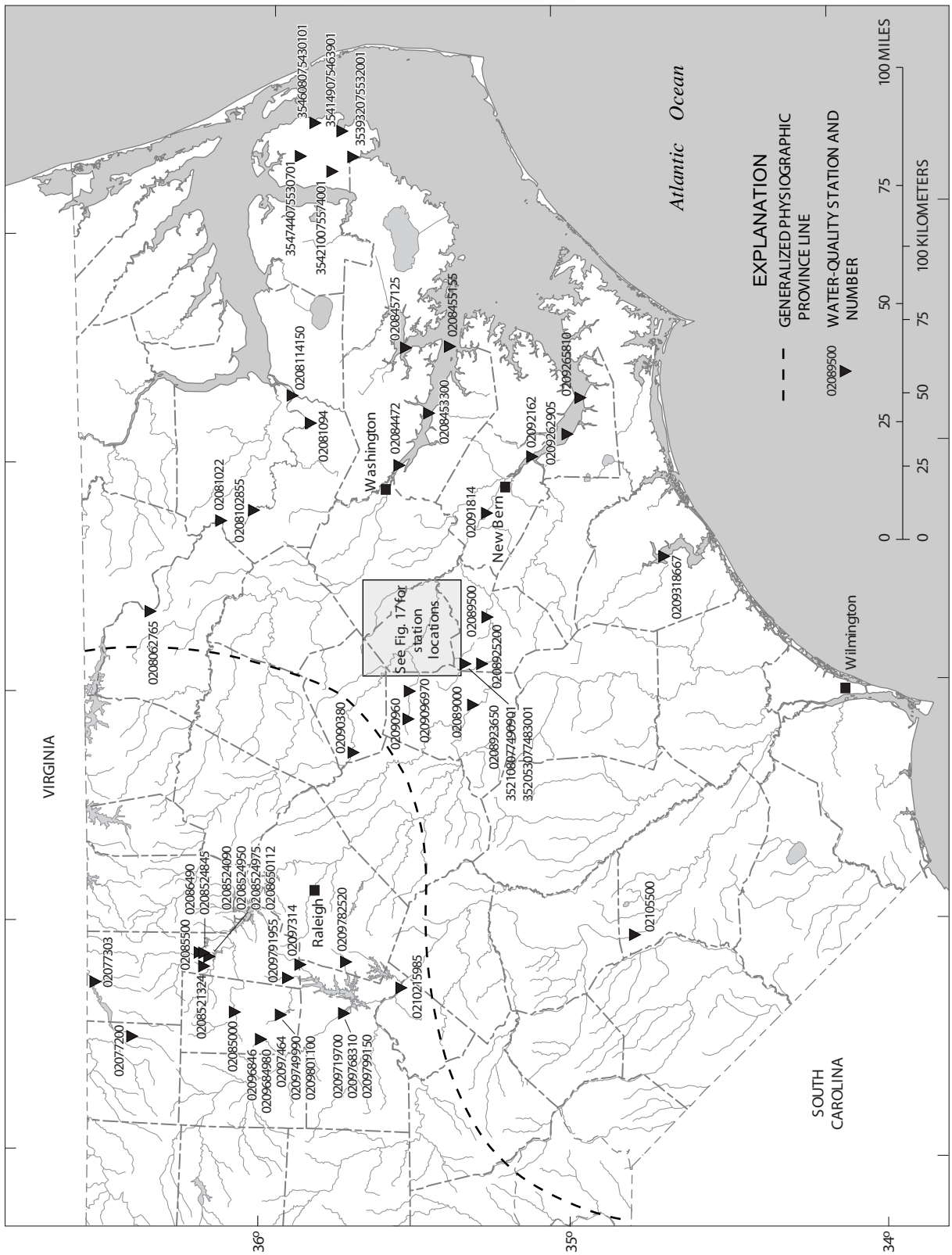
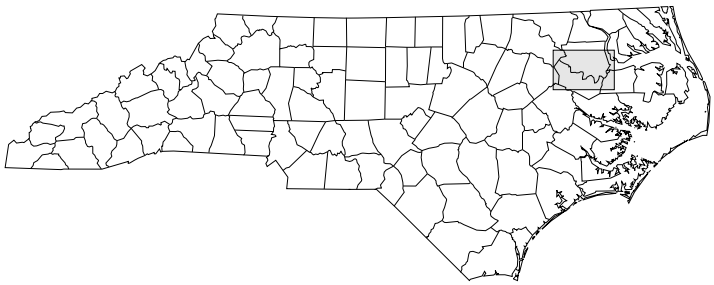


Figure 13.--Locations of water-quality stations in eastern North Carolina.



LOCATION OF SITES IN BERTIE AND MARTIN COUNTIES, NORTH CAROLINA

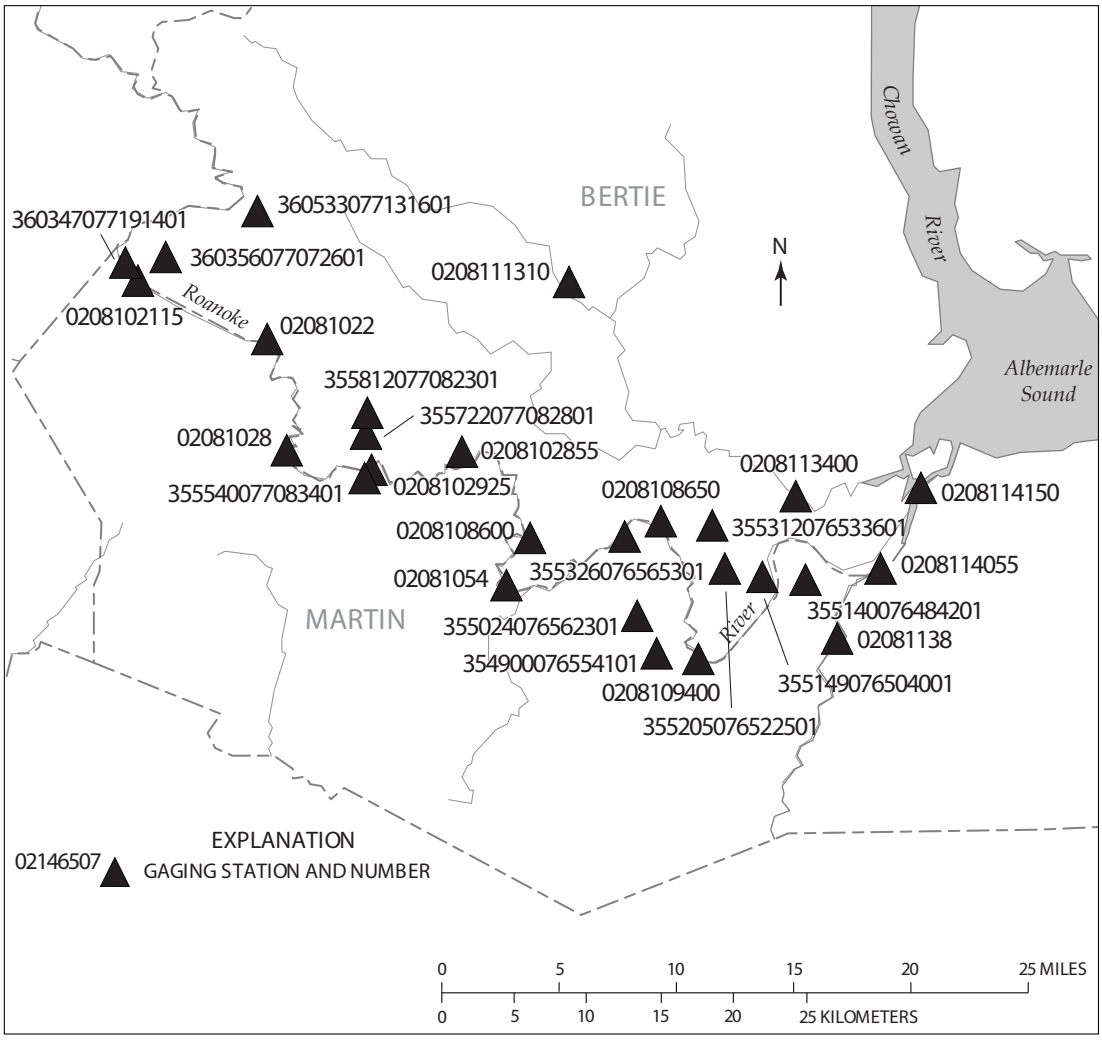
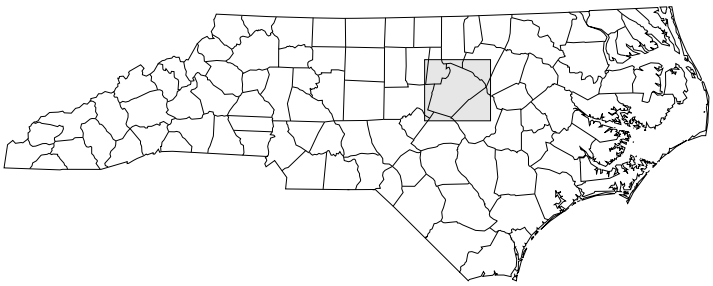


Figure 14.--Locations of gaging stations in Bertie and Martin Counties, North Carolina.



LOCATION OF SITES IN AND AROUND WAKE COUNTY, NORTH CAROLINA

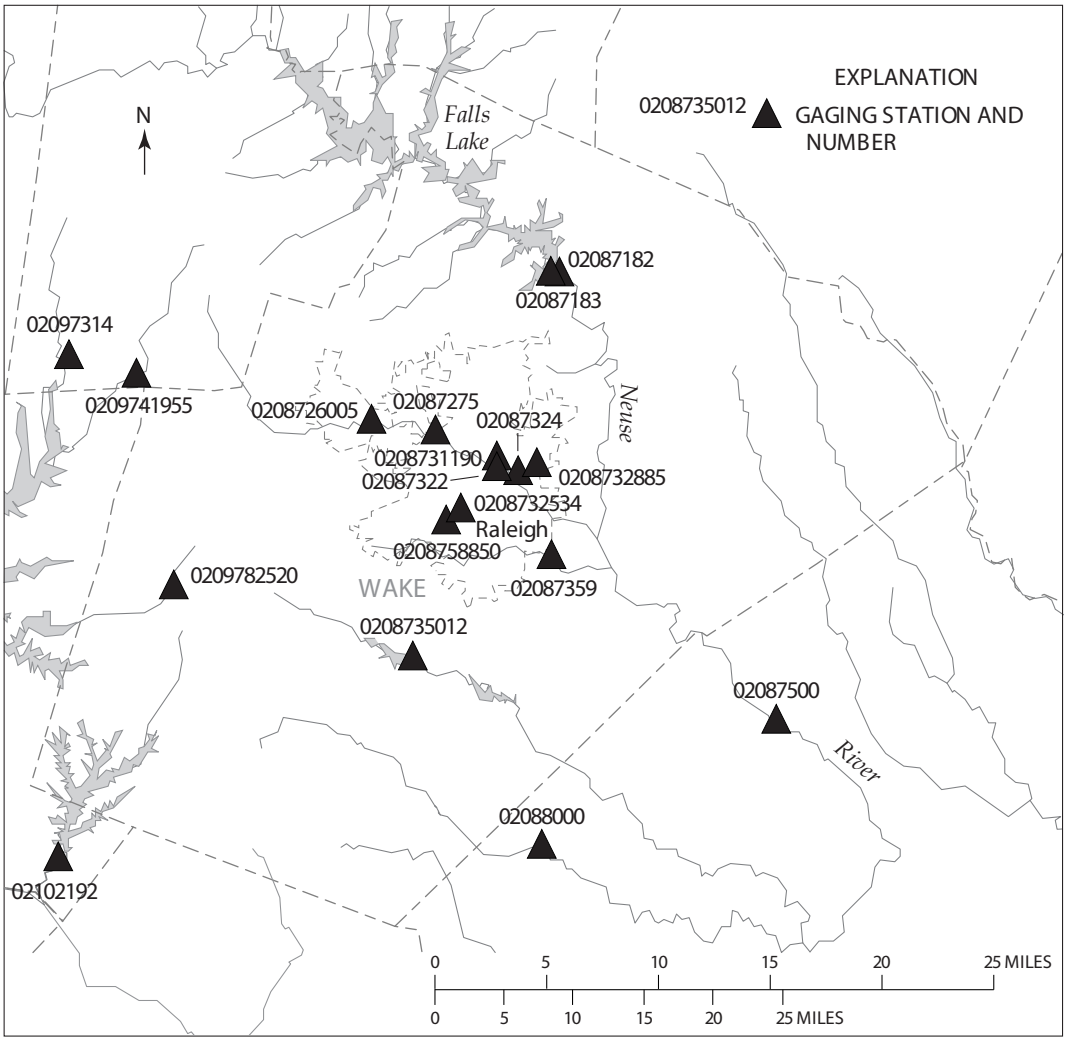
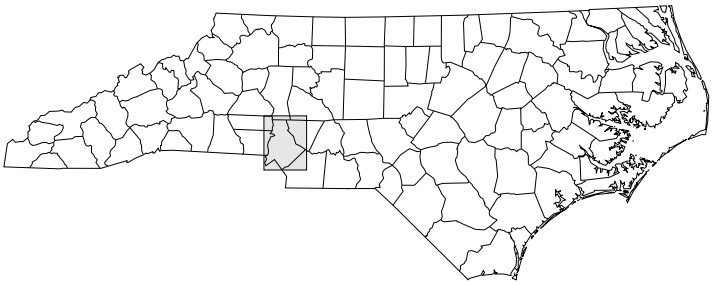


Figure 15.--Locations of gaging stations in and around Wake County, North Carolina.



LOCATION OF SITES IN AND AROUND MECKLENBURG COUNTY, NORTH CAROLINA

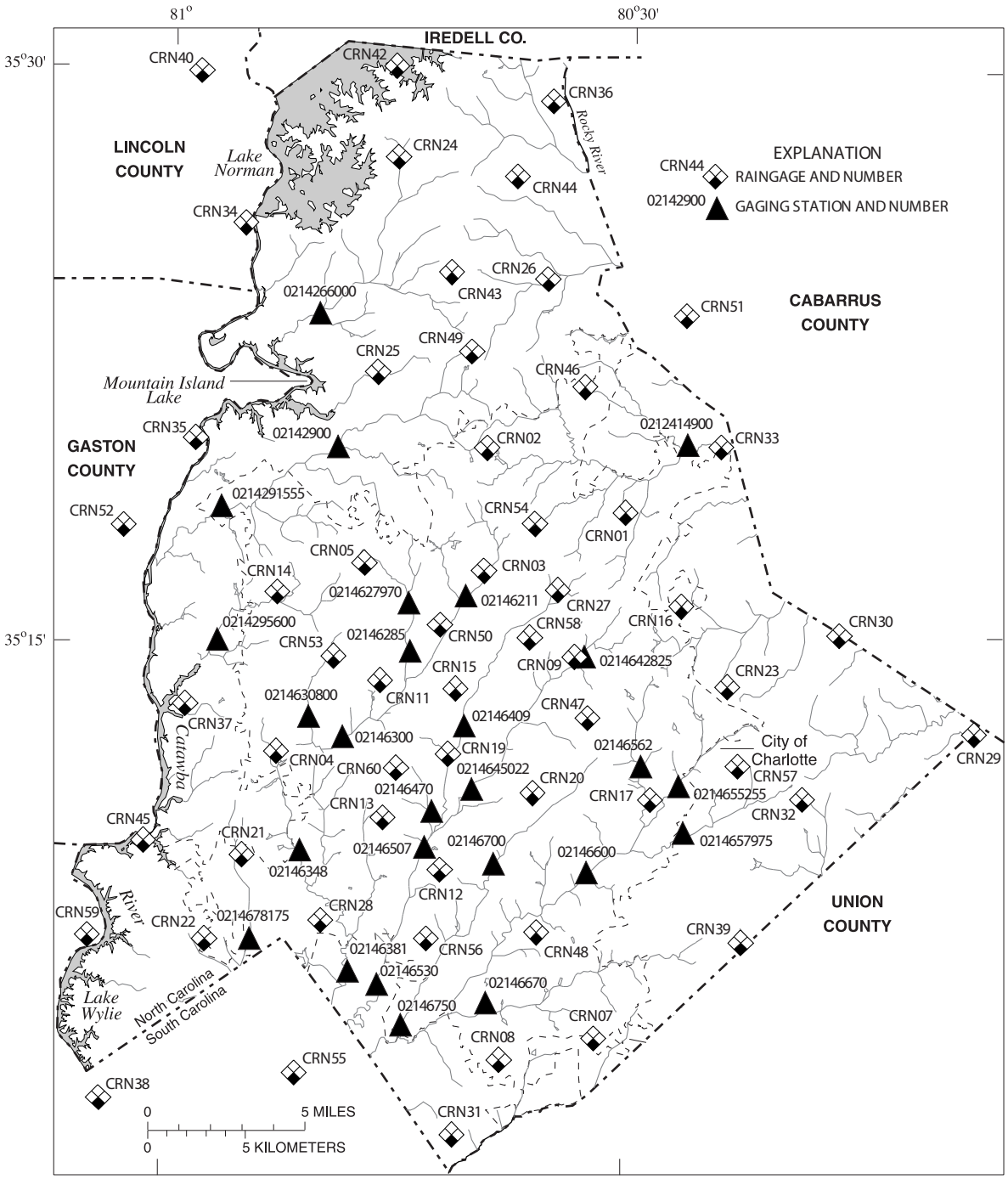
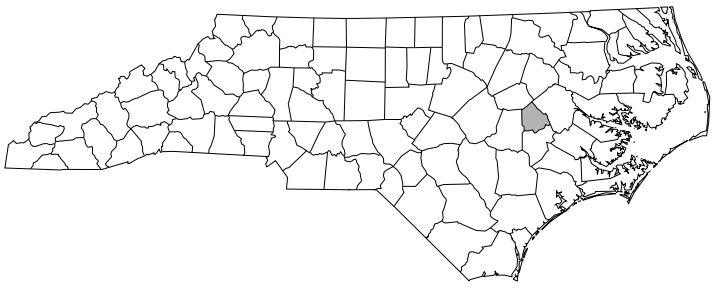


Figure 16.--Locations of gaging stations in and around Mecklenburg County, North Carolina.



LOCATION OF SITES IN GREENE COUNTY, NORTH CAROLINA

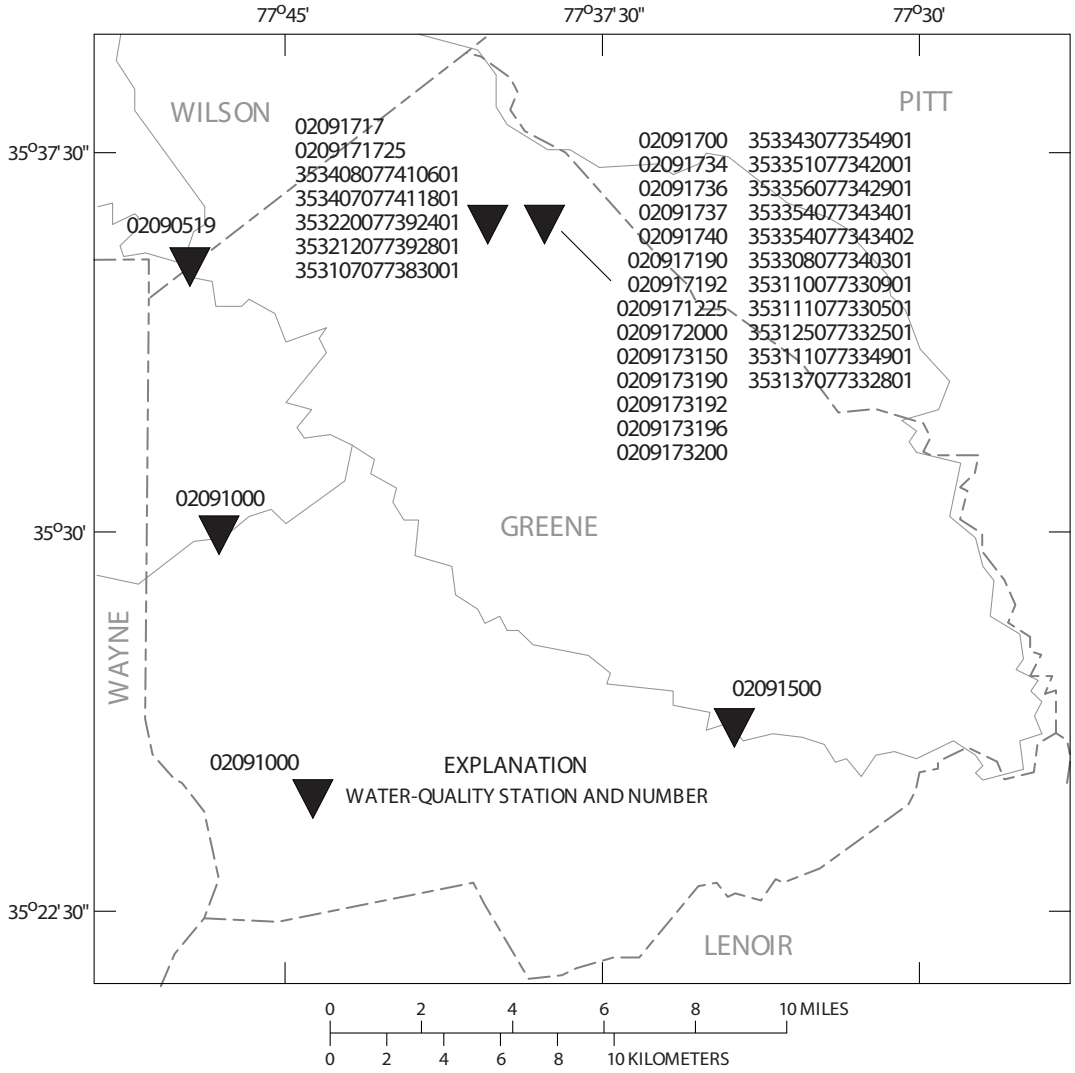


Figure 17.--Locations of water-quality stations in Greene County, North Carolina.

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC

LOCATION.--Lat 36°25'18", long 76°20'34", 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 sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharge and periods Oct. 31 to Nov. 2, 5-10, Dec. 30 to Jan. 2, 6, 7, and May 18, 19, 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. The published 24.0 hour 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	188	9.6	41	32	58	97	195	51	-18	124	12	14
2	176	17	43	35	52	93	212	53	37	113	1.1	11
3	142	e-3.0	e52	e30	52	91	197	36	24	89	3.0	2.9
4	134	e-8.0	e46	e23	47	101	201	35	11	72	1.2	1.4
5	142	7.4	45	e20	52	121	192	40	11	76	5.2	5.0
6	142	e3.0	50	19	51	127	171	41	20	72	2.4	-7.1
7	149	-3.3	47	16	52	111	164	40	89	52	24	-12
8	135	-2.3	48	e40	49	100	159	31	71	41	22	-7.3
9	118	-15	52	50	45	101	153	26	58	42	9.9	-16
10	102	-20	49	44	46	102	151	e38	46	29	4.6	-5.2
11	97	e-10	52	43	47	86	147	e44	36	42	1.8	1.5
12	98	e-2.0	63	47	42	88	e142	e20	31	36	-.44	-11
13	92	e6.0	63	45	44	79	129	19	16	28	5.2	-11
14	79	e16	62	40	43	102	147	12	38	18	13	-2.1
15	66	25	73	60	49	98	123	15	9.9	17	10	-3.4
16	52	12	69	59	49	108	131	15	97	11	-5.2	e-2.0
17	51	24	64	55	75	101	116	10	276	3.5	-4.2	-7.4
18	48	20	94	54	89	93	108	13	247	4.4	10	-21
19	48	20	85	50	78	86	90	13	204	7.9	14	-13
20	37	21	82	63	77	79	92	9.4	171	7.0	9.7	-42
21	44	27	74	80	79	106	86	-4.0	141	3.6	24	-29
22	49	20	78	73	87	146	84	-28	141	-3.9	15	-4.9
23	38	19	70	71	132	129	74	21	132	-7.1	.19	-5.8
24	40	23	65	65	124	111	66	6.0	177	-18	11	-36
25	37	16	68	68	107	132	72	e-2.0	202	12	11	17
26	41	43	e62	57	122	119	73	-9.5	192	22	-2.0	31
27	45	42	56	60	111	108	63	24	181	34	-10	-1.2
28	e30	41	62	55	104	98	62	6.9	182	7.7	1.8	1.6
29	e16	41	e51	54	---	85	58	14	164	6.6	12	3.8
30	e2.0	46	34	54	---	115	51	7.6	141	43	6.5	e3.0
31	-12	---	31	58	---	152	---	5.5	---	22	9.3	---
TOTAL	2426.0	435.4	1831	1520	1963	3265	3709	602.9	3127.9	1006.7	218.05	-145.2
MEAN	78.3	14.5	59.1	49.0	70.1	105	124	19.4	104	32.5	7.03	-4.84
MAX	188	46	94	80	132	152	212	53	276	124	24	31
MIN	-12	-20	31	16	42	79	51	-28	-18	-18	-10	-42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

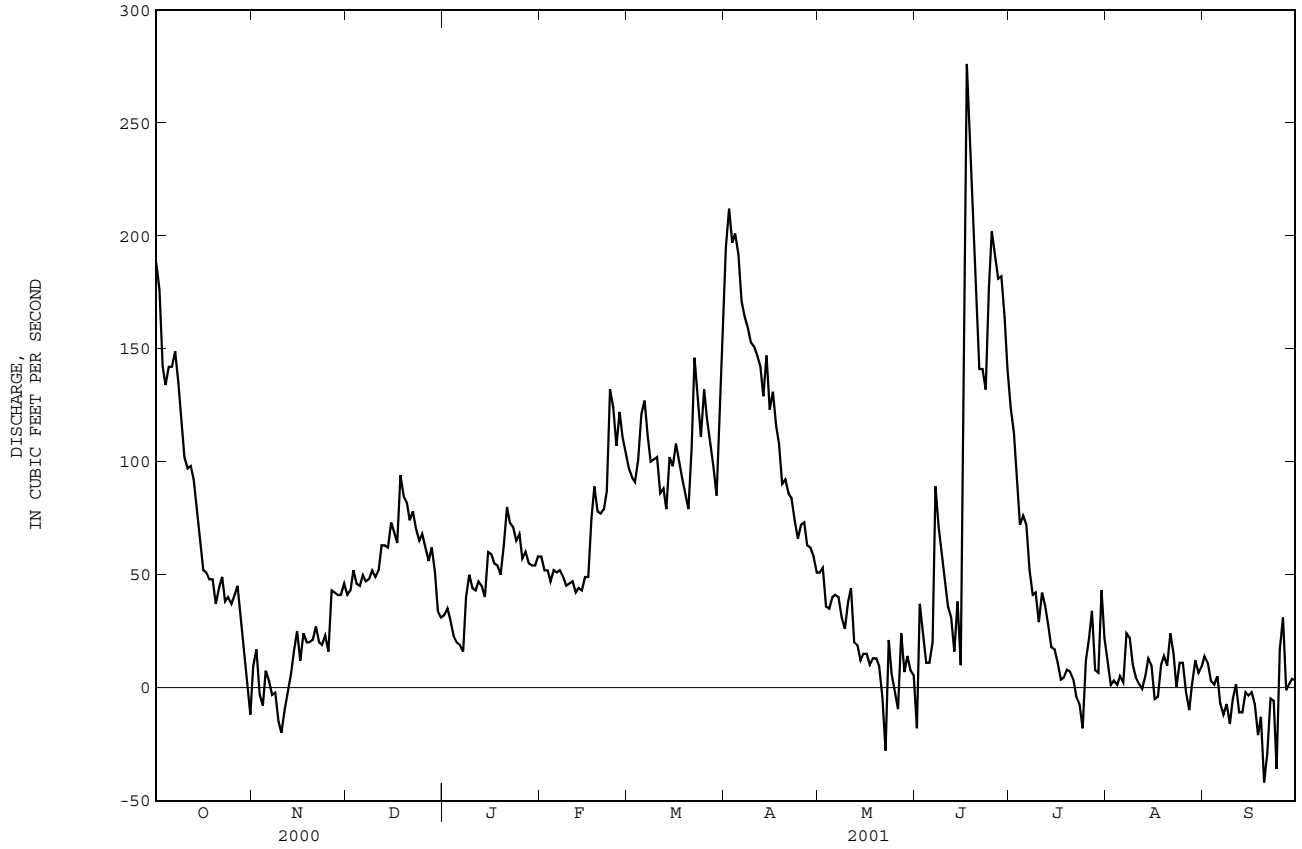
MEAN	126	76.8	91.3	134	192	164	152	93.5	65.2	76.2	60.8	173
MAX	430	205	172	189	367	277	183	127	130	160	172	588
(WY)	2000	2000	1997	1998	1998	1998	1998	2000	2000	2000	1996	1999
MIN	13.3	13.6	18.2	49.0	70.1	101	124	19.4	15.2	19.2	7.03	-4.84
(WY)	1999	1999	1996	2001	2001	1999	2001	2001	1999	1999	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	47655.4		19959.75			
ANNUAL MEAN	130		54.7		116	
HIGHEST ANNUAL MEAN					182	2000
LOWEST ANNUAL MEAN					54.7	2001
HIGHEST DAILY MEAN	468	Jun 30	276	Jun 17	1290	Sep 19 1999
LOWEST DAILY MEAN	-20	Nov 10	-42	Sep 20	-80	Aug 27 1998
ANNUAL SEVEN-DAY MINIMUM	-7.1	Nov 6	-22	Sep 18	-22	Sep 18 2001
MAXIMUM PEAK FLOW			293	Jun 17	1330	Sep 19 1999
MAXIMUM PEAK STAGE			6.96	Jun 16	9.85	Sep 19 1999
INSTANTANEOUS LOW FLOW			-89	Aug 13	-240	Sep 6 1996
10 PERCENT EXCEEDS	214		133		223	
50 PERCENT EXCEEDS	126		45		101	
90 PERCENT EXCEEDS	41		-2.0		13	

e Estimated.

Note. -- Negative values indicate reverse flow.

0204382800 PASQUOTANK RIVER NEAR SOUTH MILLS, NC--Continued



354744075530701 CG #1 MILLTAIL CREEK AT MILLTAIL ROAD

LOCATION.--Lat 35°47'43", long 75°53'08", Dare County, Hydrologic Unit 03010205, on left bank, 3.8 mi southeast of Buffalo City, and 5.3 mi south of U.S. Highway 64.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Water stage recorder. Datum of gage is sea level. Satellite telemetry at station.

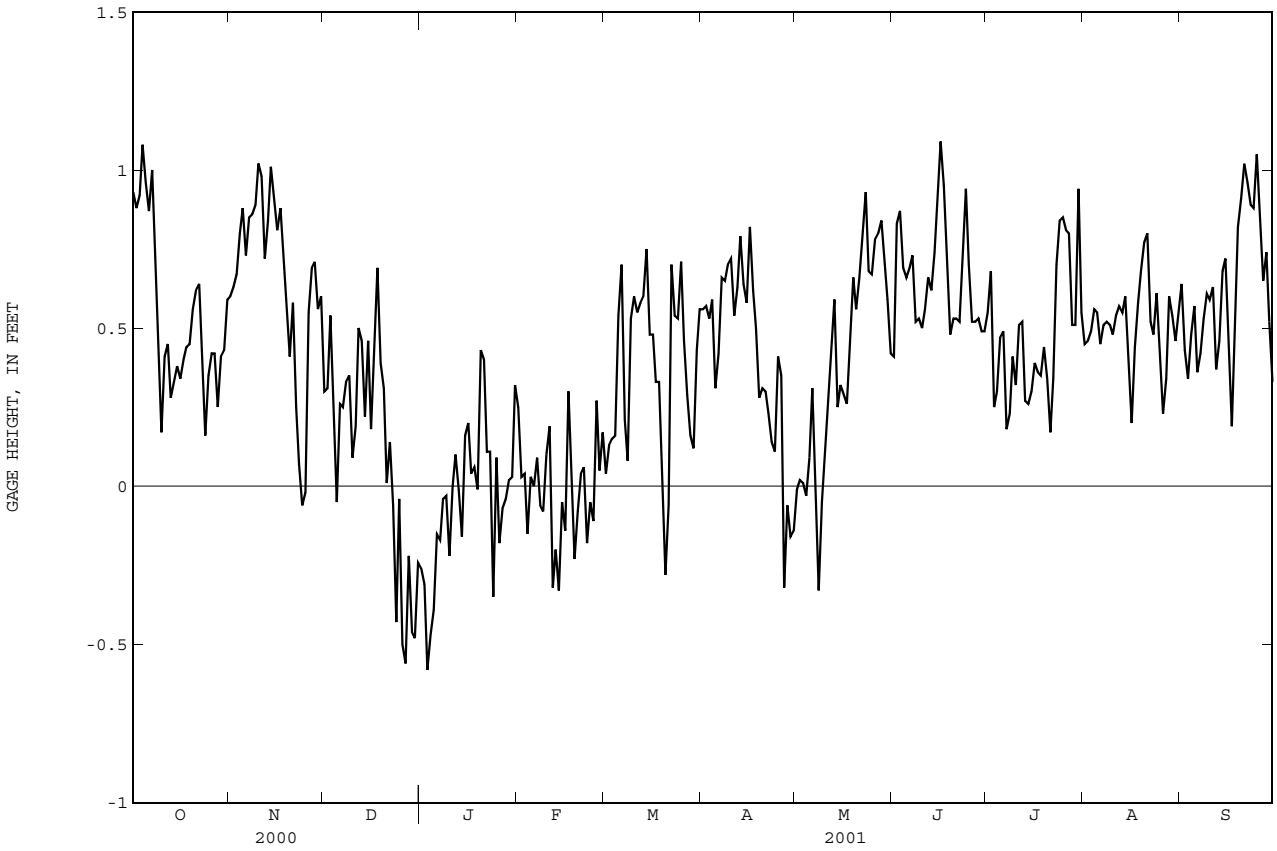
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.98 ft, Sept. 22, 1999, minimum, -0.72 ft, Dec. 26, 2000 and Jan. 3, 2001.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.93	.60	.30	-.26	.25	.04	.56	-.01	.41	.55	.45	.64
2	.88	.63	.31	-.31	.03	.13	.57	.02	.83	.68	.46	.43
3	.92	.67	.54	-.58	.04	.15	.53	.01	.87	.25	.49	.34
4	1.08	.80	.27	-.47	-.15	.16	.59	-.03	.69	.30	.56	.48
5	.96	.88	-.05	-.39	.03	.54	.31	.09	.66	.47	.55	.57
6	.87	.73	.26	-.15	.00	.70	.42	.31	.69	.49	.45	.36
7	1.00	.85	.25	-.17	.09	.21	.66	-.08	.73	.18	.51	.42
8	.77	.86	.33	-.04	-.06	.08	.65	-.33	.52	.23	.52	.53
9	.49	.89	.35	-.03	-.08	.53	.70	-.05	.53	.41	.51	.61
10	.17	1.02	.09	-.22	.10	.60	.72	.11	.50	.32	.48	.59
11	.41	.98	.19	.00	.19	.55	.54	.24	.56	.51	.54	.63
12	.45	.72	.50	.10	-.32	.58	.63	.42	.66	.52	.57	.37
13	.28	.84	.46	-.01	-.20	.60	.79	.59	.62	.27	.55	.46
14	.33	1.01	.22	-.16	-.33	.75	.64	.25	.74	.26	.60	.68
15	.38	.91	.46	.16	-.05	.48	.58	.32	.93	.30	.38	.72
16	.34	.81	.18	.20	-.14	.48	.82	.29	1.09	.39	.20	.47
17	.40	.88	.44	.04	.30	.33	.62	.26	.95	.36	.44	.19
18	.44	.73	.69	.06	.01	.33	.50	.48	.73	.35	.58	.57
19	.45	.58	.39	-.01	-.23	.01	.28	.66	.48	.44	.68	.82
20	.56	.41	.31	.43	-.08	-.28	.31	.56	.53	.34	.77	.91
21	.62	.58	.01	.40	.04	-.06	.30	.66	.53	.17	.80	1.02
22	.64	.25	.14	.11	.06	.70	.23	.80	.52	.34	.52	.96
23	.43	.07	-.06	.11	-.18	.54	.14	.93	.71	.70	.48	.89
24	.16	-.06	-.43	-.35	-.05	.53	.11	.68	.94	.84	.61	.88
25	.35	-.02	-.04	.09	-.11	.71	.41	.67	.70	.85	.45	1.05
26	.42	.55	-.50	-.18	.27	.46	.35	.78	.52	.81	.23	.84
27	.42	.69	-.56	-.07	.05	.29	-.32	.80	.52	.80	.34	.65
28	.25	.71	-.22	-.04	.17	.16	-.06	.84	.53	.51	.60	.74
29	.41	.56	-.46	.02	---	.12	-.16	.72	.49	.51	.54	.52
30	.43	.60	-.48	.03	---	.43	-.14	.59	.49	.94	.46	.33
31	.59	---	-.24	.32	---	.56	---	.42	---	.55	.56	---
MEAN	.54	.66	.12	-.04	-.01	.37	.41	.39	.66	.47	.51	.62
MAX	1.08	1.02	.69	.43	.30	.75	.82	.93	1.09	.94	.80	1.05
MIN	.16	-.06	-.56	-.58	-.33	-.28	-.32	-.33	.41	.17	.20	.19

354744075530701 CG #1 MILLTAIL CREEK AT MILLTAIL ROAD--Continued



354744075530701 CG #1 MILLTAIL CREEK AT MILLTAIL ROAD--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year (discontinued).

REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
13...	1423	2.7	3.6	124	7.1	15.4
13...	1425	2.6	3.6	123	7.1	15.0
13...	1426	2.5	3.6	123	7.1	14.0
13...	1428	2.5	3.6	124	7.1	13.0
13...	1429	3.0	3.8	111	7.9	12.0
13...	1430	2.5	3.7	119	7.2	11.0
13...	1432	2.8	3.8	106	7.9	9.99
13...	1433	2.9	3.8	110	7.8	8.99
13...	1435	2.8	3.8	109	7.8	7.99
13...	1436	2.7	3.8	108	7.8	6.99
13...	1437	2.8	4.0	85	8.0	6.00
13...	1439	2.7	4.0	89	8.1	4.99
13...	1440	2.8	4.1	84	8.1	3.99
13...	1441	2.8	3.9	104	7.9	3.00
13...	1443	2.8	4.1	81	8.2	2.00
13...	1444	2.8	4.0	86	8.1	.99
APR						
02...	1337	2.5	3.7	124	9.4	15.9
02...	1339	2.3	3.7	123	9.4	15.0
02...	1340	2.0	3.7	124	9.4	14.0
02...	1343	2.1	3.7	124	9.4	13.0
02...	1344	2.0	3.7	124	9.4	12.0
02...	1346	2.0	3.7	124	9.4	11.0
02...	1347	2.1	3.7	124	9.5	9.97
02...	1348	2.0	3.8	124	9.6	8.98
02...	1350	2.1	3.9	124	10.4	7.98
02...	1351	2.5	4.1	130	11.2	6.98
02...	1352	2.7	4.3	144	11.5	5.98
02...	1354	2.6	4.3	134	11.7	4.97
02...	1355	2.5	4.2	122	11.8	3.99
02...	1356	2.5	4.2	110	11.8	2.99
02...	1358	2.4	4.2	87	11.9	1.98
02...	1359	2.2	4.2	86	11.9	.97
MAY						
08...	1433	1.7	4.0	167	12.1	15.5
08...	1444	1.3	3.6	121	12.1	15.0
08...	1445	1.0	3.5	120	12.2	14.0
08...	1447	.8	3.5	120	12.3	13.0
08...	1448	.8	3.5	121	12.5	12.0
08...	1449	.7	3.5	122	12.6	11.0
08...	1450	.6	3.5	121	12.8	10.0
08...	1451	.5	3.5	121	13.0	9.00
08...	1453	.4	3.5	121	13.1	7.99
08...	1454	.4	3.5	121	13.3	6.98
08...	1455	.4	3.5	120	13.7	5.99
08...	1456	.2	3.6	115	14.9	4.99
08...	1458	.8	3.9	99	17.0	3.99
08...	1459	1.4	3.8	113	17.4	3.00
08...	1501	1.4	3.8	112	17.6	2.01
08...	1502	1.3	3.8	108	18.0	1.00
JUN						
20...	1358	.8	5.8	3160	17.1	16.3
20...	1359	.5	5.7	3150	17.3	16.0
20...	1400	.3	5.2	2930	18.3	15.0
20...	1402	.2	4.3	549	19.4	14.0
20...	1403	.2	3.9	316	20.1	13.0
20...	1404	.1	3.8	241	20.4	12.0
20...	1405	.1	3.8	225	20.5	11.0
20...	1407	.1	3.8	226	20.5	10.0
20...	1408	.1	3.8	224	20.5	9.00
20...	1410	.1	3.8	220	20.6	8.00
20...	1411	.1	3.8	244	20.8	7.00
20...	1412	.1	3.9	248	21.7	5.99
20...	1413	.1	3.9	230	22.3	4.99
20...	1415	.1	4.0	219	22.5	4.00
20...	1416	.1	4.0	217	22.5	2.99
20...	1417	.1	4.0	208	22.6	1.99
20...	1418	.3	4.1	196	22.7	.98

Gaging station and water quality monitor at Pamlico River at Washington, North Carolina.

354210075574001 CG #2 WHIPPING CREEK AT WHIPPING CREEK ROAD

LOCATION.--Lat 35°42'10", long 75°57'40", Dare County, Hydrologic Unit 03010205, on left bank, 0.6 mi east of Whipping Creek Lake, and 4.2 mi west-northwest of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Water stage recorder. Datum of gage is sea level. Satellite telemetry at station.

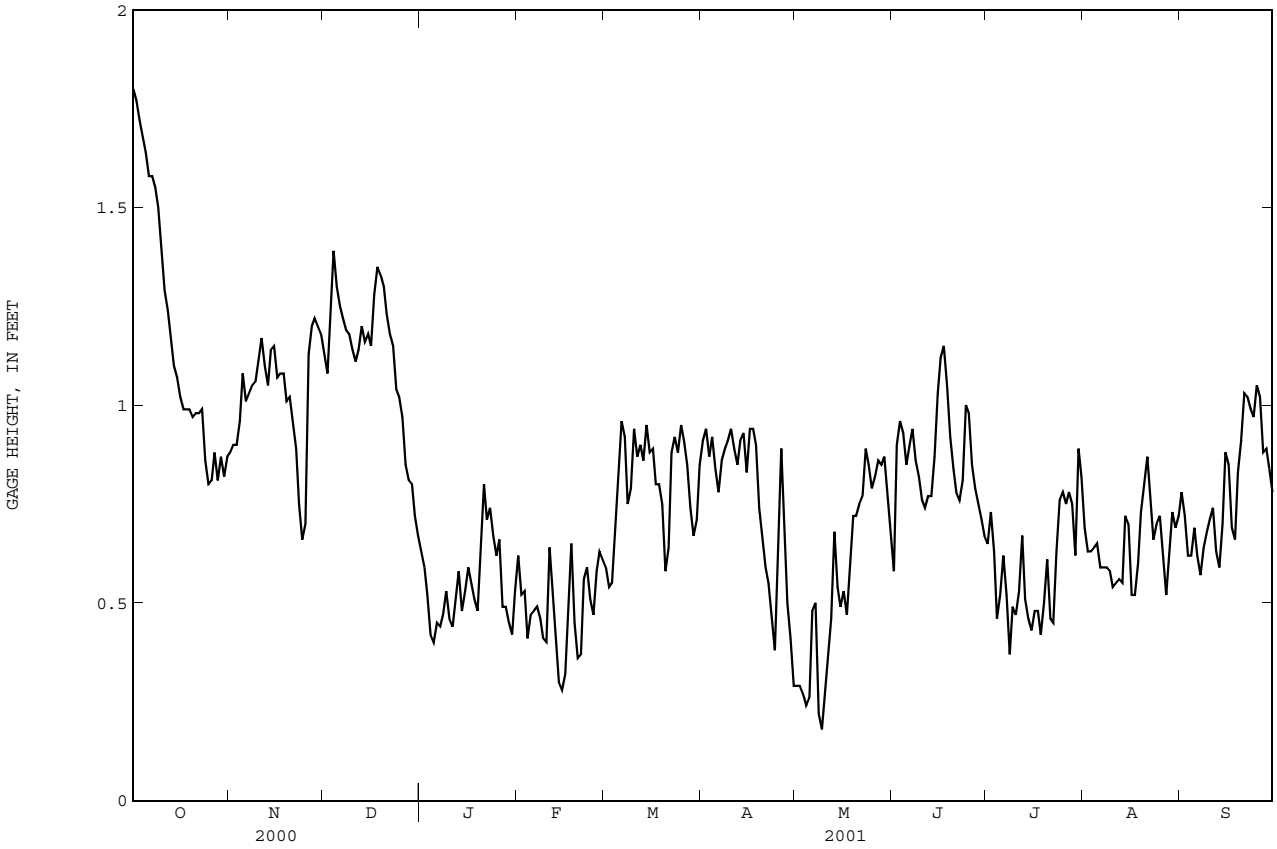
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.39 ft, Sept. 22, 1999; minimum, 0.12 ft, May 9, 2001.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.80	.88	1.13	.63	.62	.59	.91	.29	.58	.65	.69	.78
2	1.77	.90	1.08	.59	.52	.54	.94	.29	.90	.73	.63	.72
3	1.72	.90	1.25	.52	.53	.55	.87	.27	.96	.63	.63	.62
4	1.68	.96	1.39	.42	.41	.67	.92	.24	.93	.46	.64	.62
5	1.64	1.08	1.30	.40	.47	.80	.84	.26	.85	.52	.65	.69
6	1.58	1.01	1.25	.45	.48	.96	.78	.48	.90	.62	.59	.62
7	1.58	1.03	1.22	.44	.49	.92	.86	.50	.94	.52	.59	.57
8	1.55	1.05	1.19	.47	.46	.75	.89	.22	.86	.37	.59	.64
9	1.50	1.06	1.18	.53	.41	.79	.91	.18	.82	.49	.58	.68
10	1.39	1.11	1.14	.46	.40	.94	.94	.28	.76	.47	.54	.71
11	1.29	1.17	1.11	.44	.64	.87	.89	.36	.74	.53	.55	.74
12	1.24	1.10	1.14	.51	.52	.90	.85	.46	.77	.67	.56	.63
13	1.17	1.05	1.20	.58	.41	.86	.91	.68	.77	.51	.55	.59
14	1.10	1.14	1.16	.48	.30	.95	.93	.54	.87	.46	.72	.70
15	1.07	1.15	1.18	.53	.28	.88	.83	.49	1.03	.43	.70	.88
16	1.02	1.07	1.15	.59	.32	.89	.94	.53	1.12	.48	.52	.85
17	.99	1.08	1.28	.55	.51	.80	.94	.47	1.15	.48	.52	.69
18	.99	1.08	1.35	.51	.65	.80	.90	.58	1.05	.42	.60	.66
19	.99	1.01	1.33	.48	.45	.75	.74	.72	.92	.50	.73	.83
20	.97	1.02	1.30	.64	.36	.58	.67	.72	.84	.61	.80	.91
21	.98	.96	1.23	.80	.37	.64	.59	.75	.78	.46	.87	1.03
22	.98	.89	1.18	.71	.56	.88	.55	.77	.76	.45	.76	1.02
23	.99	.75	1.15	.74	.59	.92	.47	.89	.81	.63	.66	.99
24	.86	.66	1.04	.67	.51	.88	.38	.85	1.00	.76	.70	.97
25	.80	.70	1.02	.62	.47	.95	.58	.79	.98	.78	.72	1.05
26	.81	1.13	.97	.66	.58	.91	.89	.82	.85	.75	.61	1.02
27	.88	1.20	.85	.49	.63	.85	.73	.86	.79	.78	.52	.88
28	.81	1.22	.81	.49	.61	.74	.50	.85	.75	.75	.62	.89
29	.87	1.20	.80	.45	---	.67	.41	.87	.71	.62	.73	.84
30	.82	1.18	.72	.42	---	.71	.29	.78	.67	.89	.69	.78
31	.87	---	.67	.53	---	.85	---	.69	---	.82	.72	---
MEAN	1.18	1.02	1.12	.54	.48	.80	.76	.56	.86	.59	.64	.79
MAX	1.80	1.22	1.39	.80	.65	.96	.94	.89	1.15	.89	.87	1.05
MIN	.80	.66	.67	.40	.28	.54	.29	.18	.58	.37	.52	.57

354210075574001 CG #2 WHIPPING CREEK AT WHIPPING CREEK ROAD--Continued



354210075574001 CG #2 WHIPPING CREEK AT WHIPPING CREEK ROAD-Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year (discontinued).

REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
13...	1656	3.4	4.0	0	8.4	6.55
13...	1657	3.2	4.0	0	8.6	5.99
13...	1659	2.7	4.0	0	8.4	4.98
13...	1700	2.8	4.0	0	8.3	3.98
13...	1702	2.4	4.0	0	8.0	2.99
13...	1703	2.5	4.0	0	8.2	1.99
13...	1705	2.5	4.1	0	8.2	.99
APR						
02...	1540	1.4	3.9	0	10.4	6.99
02...	1541	1.6	3.9	0	10.4	5.97
02...	1543	1.4	4.0	0	10.4	4.94
02...	1545	1.8	4.0	0	11.5	3.98
02...	1546	3.1	4.1	0	11.8	2.97
02...	1547	2.8	4.1	0	11.9	1.96
02...	1549	3.5	4.0	0	12.1	.95
MAY						
08...	1654	1.2	3.7	0	14.8	6.08
08...	1655	1.0	3.7	0	14.8	4.99
08...	1657	.8	3.7	0	14.8	3.99
08...	1658	.7	3.8	0	15.6	2.97
08...	1659	1.4	3.9	0	17.8	2.00
08...	1700	1.4	3.9	0	17.7	.97
JUN						
20...	1557	.2	3.8	0	20.5	7.01
20...	1558	.1	3.8	0	20.5	6.00
20...	1559	.1	3.8	0	20.5	5.00
20...	1600	.1	3.9	0	21.4	4.00
20...	1602	.1	4.0	0	22.9	3.00
20...	1603	.3	3.9	0	23.6	2.00
20...	1604	.2	3.9	0	24.0	.98

Water quality monitoring site at Roanoke River at NC 45 near Westover, North Carolina.

354608075430101 CG #5 POINT PETER ROAD CANAL AT POINT PETER ROAD - UPSTREAM STAGE

LOCATION.--Lat 35°46'08", long 75°45'01", Dare County, Hydrologic Unit 03020105, at upstream side of culvert on Point Peter Road, 1.0 mi east of U.S. Highway 264, and 4.7 mi north of Stumpy Point, NC.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

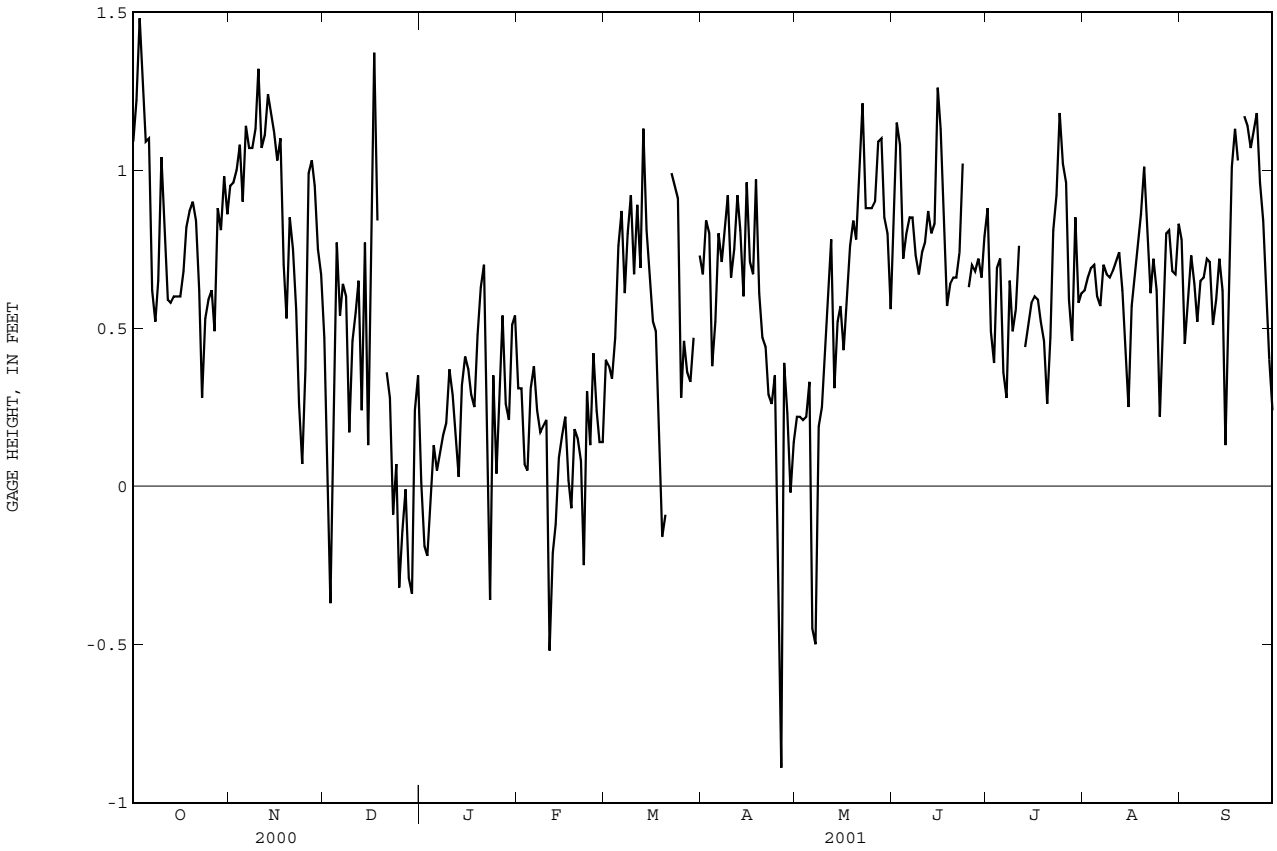
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.95 ft, Dec. 17, 2000; minimum not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.09	.95	.47	.01	.31	.40	.67	.22	.81	.88	.62	.78
2	1.22	.96	.10	-.19	.31	.38	.84	.22	1.15	.49	.66	.45
3	1.48	1.00	-.37	-.22	.07	.34	.80	.21	1.08	.39	.69	.60
4	1.30	1.08	.42	-.04	.05	.47	.38	.22	.72	.69	.70	.73
5	1.09	.90	.77	.13	.31	.76	.52	.33	.80	.72	.60	.64
6	1.10	1.14	.54	.05	.38	.87	.80	-.45	.85	.36	.57	.52
7	.62	1.07	.64	.11	.24	.61	.71	-.50	.85	.28	.70	.65
8	.52	1.07	.60	.16	.17	.80	.83	.19	.73	.65	.67	.66
9	.65	1.13	.17	.20	.19	.92	.92	.25	.67	.49	.66	.72
10	1.04	1.32	.46	.37	.21	.67	.66	.44	.74	.56	.68	.71
11	.80	1.07	.55	.29	-.52	.89	.75	.60	.77	.76	.71	.51
12	.59	1.11	.65	.17	-.21	.69	.92	.78	.87	---	.74	.59
13	.58	1.24	.24	.03	-.12	1.13	.81	.31	.80	.44	.62	.72
14	.60	1.18	.77	.32	.09	.81	.60	.52	.83	.51	.44	.62
15	.60	1.12	.13	.41	.16	.65	.96	.57	1.26	.58	.25	.13
16	.60	1.03	.56	.37	.22	.52	.71	.43	1.13	.60	.57	.44
17	.68	1.10	1.37	.29	.02	.49	.67	.61	.79	.59	.67	1.01
18	.82	.70	.84	.25	-.07	.17	.97	.76	.57	.52	.77	1.13
19	.87	.53	---	.48	.18	-.16	.61	.84	.64	.46	.86	1.03
20	.90	.85	---	.63	.15	-.09	.47	.78	.66	.26	1.01	---
21	.84	.75	.36	.70	.08	---	.44	1.00	.66	.47	.80	1.17
22	.62	.56	.28	.15	-.25	.99	.29	1.21	.74	.81	.61	1.14
23	.28	.26	-.09	-.36	.30	.95	.26	.88	1.02	.92	.72	1.07
24	.53	.07	.07	.35	.13	.91	.35	.88	---	1.18	.62	1.12
25	.59	.37	-.32	.04	.42	.28	-.46	.88	.63	1.02	.22	1.18
26	.62	.99	-.14	.25	.24	.46	-.89	.90	.70	.96	.54	.96
27	.49	1.03	-.01	.54	.14	.36	.39	1.09	.68	.59	.80	.84
28	.88	.95	-.29	.26	.14	.33	.23	1.10	.72	.46	.81	.64
29	.81	.75	-.34	.21	---	.47	-.02	.85	.66	.85	.68	.40
30	.98	.67	.24	.51	---	---	.14	.80	.79	.58	.67	.24
31	.86	---	.35	.54	---	.73	---	.56	---	.61	.83	---
MEAN	.80	.90	---	.23	.12	---	.51	.56	---	---	.66	---
MAX	1.48	1.32	---	.70	.42	---	.97	1.21	---	---	1.01	---
MIN	.28	.07	---	-.36	-.52	---	-.89	-.50	---	---	.22	---

354608075430101 CG #5 POINT PETER ROAD CANAL AT POINT PETER ROAD - UPSTREAM STAGE--Continued



354608075430101 CG #5 POINT PETER ROAD CANAL AT POINT PETER ROAD -UPSTREAM STAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year (discontinued).

REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
14...	1036	5.1	3.7	0	8.9	3.77
14...	1038	5.0	3.7	0	8.9	3.00
14...	1039	4.8	3.7	0	8.9	1.99
14...	1041	4.8	3.7	0	8.9	1.00
APR						
02...	1732	4.9	3.6	0	13.4	4.80
02...	1734	4.9	3.6	0	13.5	4.00
02...	1736	4.8	3.6	0	13.5	3.00
02...	1738	4.8	3.6	0	13.6	2.01
02...	1739	4.8	3.6	0	13.7	1.01
MAY						
09...	0819	7.1	6.8	12	19.1	4.11
09...	0820	7.2	6.8	12	19.1	3.00
09...	0823	7.5	6.6	11	18.8	2.01
09...	0824	7.6	6.6	10	18.8	1.00
JUN						
20...	1731	2.2	3.8	0	27.3	4.20
20...	1732	2.1	3.8	0	27.3	3.99
20...	1733	2.1	3.8	0	27.3	3.00
20...	1735	2.0	3.8	0	27.3	2.00
20...	1737	2.0	3.8	0	27.3	1.02

Gaging station at Potecasi Creek near Union, North Carolina.

354608075430101 CG #5 POINT PETER ROAD CANAL AT POINT PETER ROAD - DOWNSTREAM STAGE

LOCATION.--Lat 35°46'08", long 75°45'01", Dare County, Hydrologic Unit 03020105, at downstream side of culvert on Point Peter Road, 1.0 mi east of U.S. Highway 264, and 4.7 mi north of Stumpy Point, NC.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

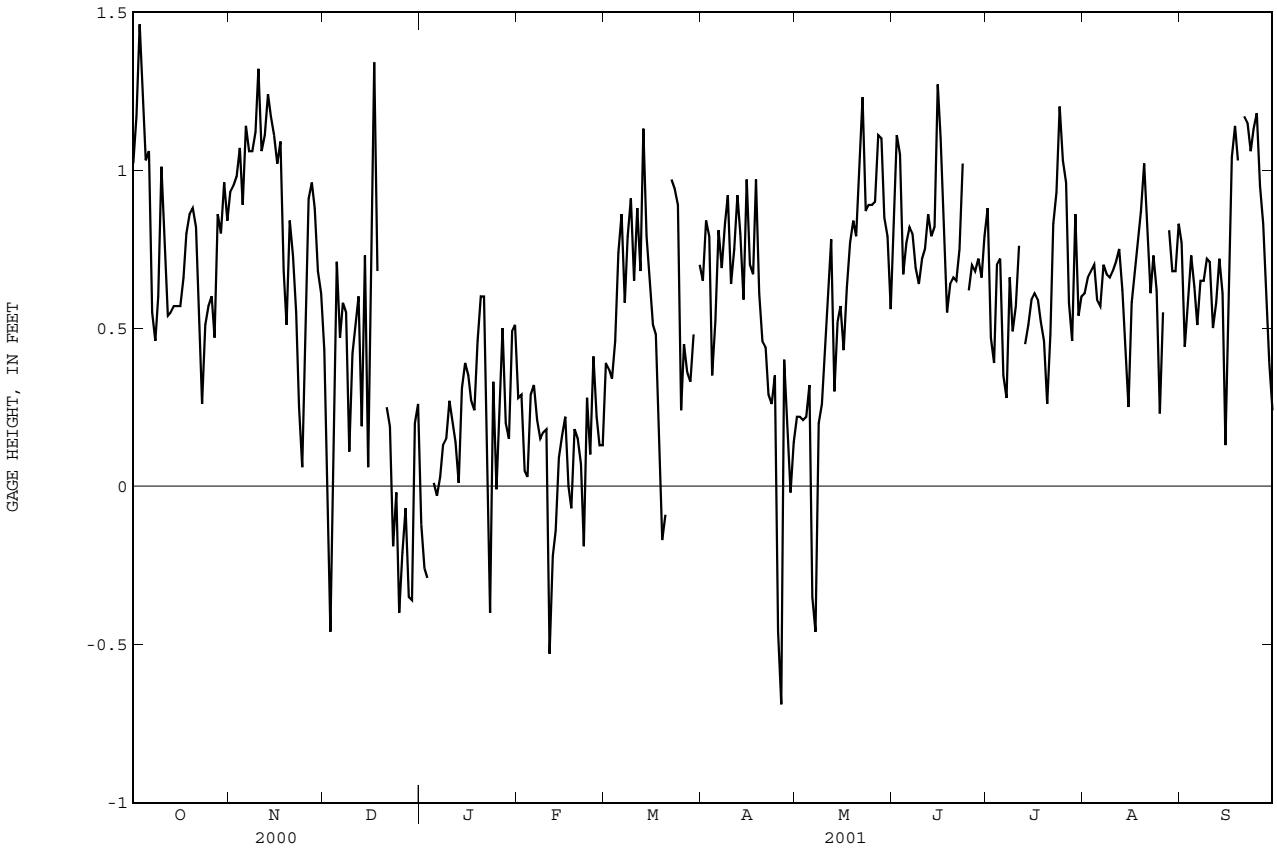
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 3.70 ft, Sept. 16, 1999; minimum not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.02	.93	.43	-.12	.28	.39	.65	.22	.82	.88	.61	.77
2	1.17	.95	.05	-.26	.29	.37	.84	.22	1.11	.47	.66	.44
3	1.46	.98	-.46	-.29	.05	.34	.79	.21	1.05	.39	.68	.60
4	1.25	1.07	.34	---	.03	.46	.35	.22	.67	.70	.70	.73
5	1.03	.89	.71	.01	.29	.74	.52	.32	.77	.72	.59	.63
6	1.06	1.14	.47	-.03	.32	.86	.81	-.35	.82	.35	.57	.51
7	.55	1.06	.58	.03	.21	.58	.69	-.46	.80	.28	.70	.65
8	.46	1.06	.55	.13	.15	.79	.83	.20	.69	.66	.67	.65
9	.60	1.12	.11	.15	.17	.91	.92	.26	.64	.49	.66	.72
10	1.01	1.32	.42	.27	.18	.65	.64	.45	.72	.57	.68	.71
11	.75	1.06	.52	.20	-.53	.88	.75	.61	.75	.76	.71	.50
12	.54	1.11	.60	.14	-.22	.68	.92	.78	.86	---	.75	.58
13	.55	1.24	.19	.01	-.14	1.13	.80	.30	.79	.45	.62	.72
14	.57	1.17	.73	.31	.09	.79	.59	.52	.82	.51	.43	.61
15	.57	1.11	.06	.39	.16	.64	.97	.57	1.27	.59	.25	.13
16	.57	1.02	.52	.35	.22	.51	.70	.43	1.10	.61	.58	.44
17	.66	1.09	1.34	.27	.00	.48	.67	.63	.77	.59	.67	1.04
18	.80	.68	.68	.24	-.07	.16	.97	.77	.55	.52	.77	1.14
19	.86	.51	---	.46	.18	-.17	.61	.84	.64	.46	.87	1.03
20	.88	.84	---	.60	.15	-.09	.46	.79	.66	.26	1.02	---
21	.82	.73	.25	.60	.07	---	.44	1.02	.65	.48	.79	1.17
22	.58	.55	.19	.00	-.19	.97	.29	1.23	.75	.83	.61	1.15
23	.26	.25	-.19	-.40	.28	.94	.26	.87	1.02	.93	.73	1.06
24	.51	.06	-.02	.33	.10	.89	.35	.89	---	1.20	.62	1.13
25	.57	.35	-.40	-.01	.41	.24	-.46	.89	.62	1.03	.23	1.18
26	.60	.91	-.21	.20	.22	.45	-.69	.90	.70	.96	.55	.95
27	.47	.96	-.07	.50	.13	.36	.40	1.11	.68	.58	---	.83
28	.86	.88	-.35	.20	.13	.33	.21	1.10	.72	.46	.81	.63
29	.80	.68	-.36	.15	---	.48	-.02	.85	.66	.86	.68	.39
30	.96	.61	.20	.49	---	---	.14	.79	.79	.54	.68	.24
31	.84	---	.26	.51	---	.70	---	.56	---	.60	.83	---
MEAN	.76	.88	---	---	.11	---	.51	.57	---	---	---	---
MAX	1.46	1.32	---	---	.41	---	.97	1.23	---	---	---	---
MIN	.26	.06	---	---	-.53	---	-.69	-.46	---	---	---	---

354608075430101 CG #5 POINT PETER ROAD CANAL AT POINT PETER ROAD - DOWNSTREAM STAGE--Continued



354956075512801 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE, OUTSIDE STAFF PLATE 1 (OSS 1)

LOCATION.--Lat 35°49'55", long 75°51'29", Dare County, Hydrologic Unit 03010205, set in canal at intersection of Milltail Road and Long Curve Road, 2.2 mi south of U.S. Highway 64, and 2.6 mi west of U.S. Highway 264.

DRAINAGE AREA.--Indeterminate.

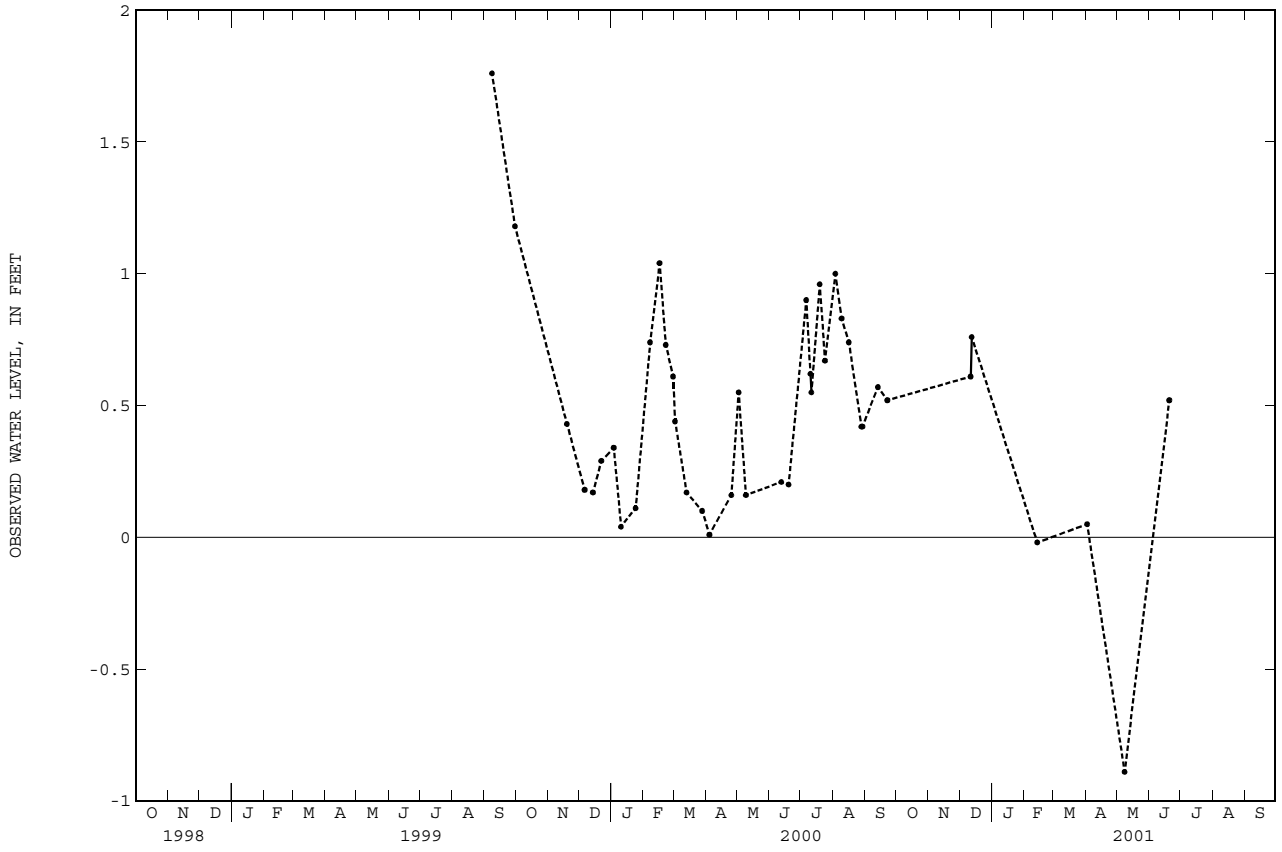
PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.76 ft, Sept. 8, 1999; minimum observed, -0.89 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 11, 2000	0.61	Dec. 12, 2000	0.76
Feb. 13, 2001	-0.02	Apr. 2, 2001	0.05
May 8, 2001	-0.89	Jun. 20, 2001	0.52



354758075483401 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 2 (OSS 2)

LOCATION.--Lat 35°47'58", long 75°48'36", Dare County, Hydrologic Unit 03010205, set in canal on Long Curve Road, 0.2 mi southwest of intersection of Long Curve Road and Borrow Pit Road, and 1.3 mi southwest of U.S. Highway 264.

DRAINAGE AREA.--Indeterminate.

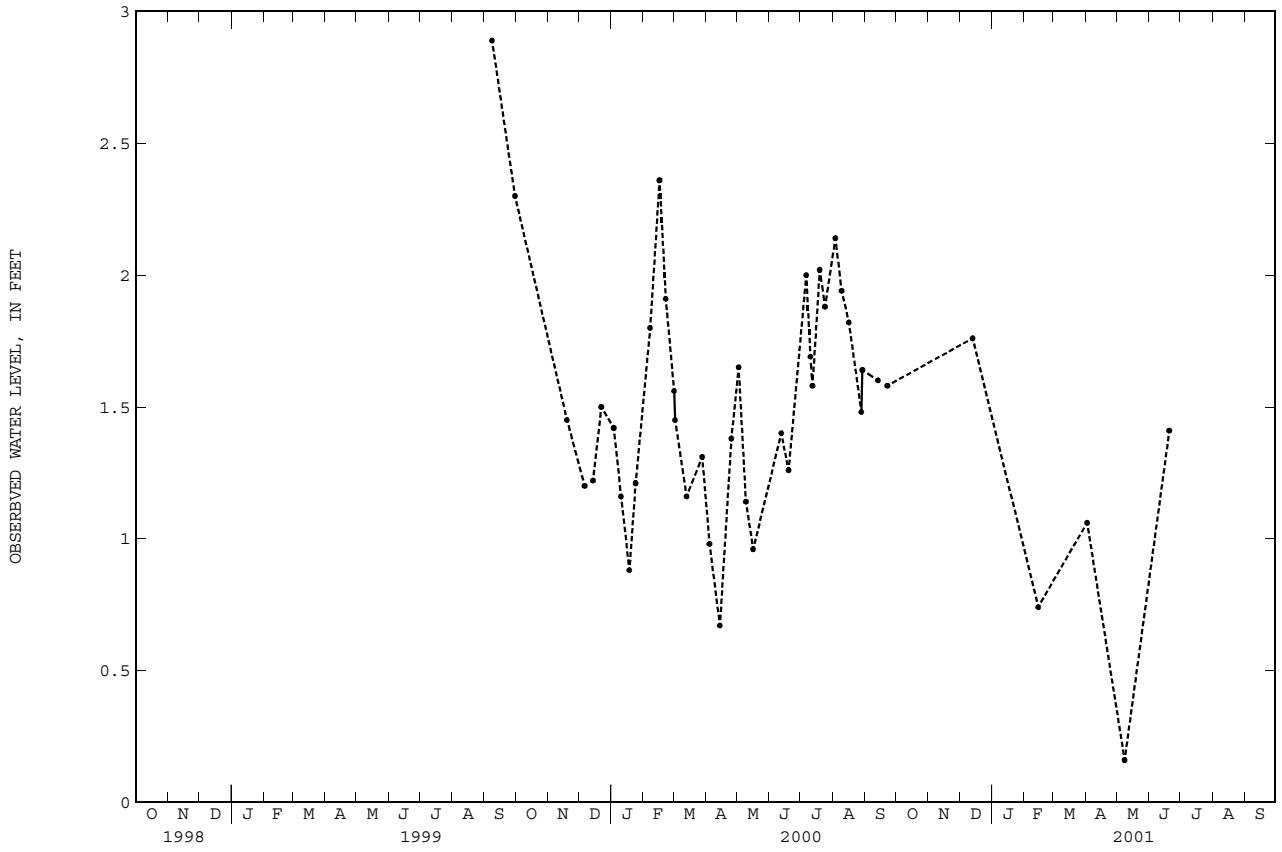
PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.89 ft, Sept. 8, 1999; minimum observed, 0.16 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 13, 2000	1.76	Feb. 14, 2001	0.74
Apr. 02, 2001	1.06	May 8, 2001	0.16
Jun. 20, 2001	1.41		



354810075530301 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 3 (OSS 3)

LOCATION.--Lat 35°48'09", long 75°56'02", Dare County, Hydrologic Unit 03010205, set in canal at intersection of Possum Road and Dry Ridge Road, 2.9 mi south-southwest of Buffalo City, and 3.2 mi east of Alligator River.

DRAINAGE AREA.--Indeterminate.

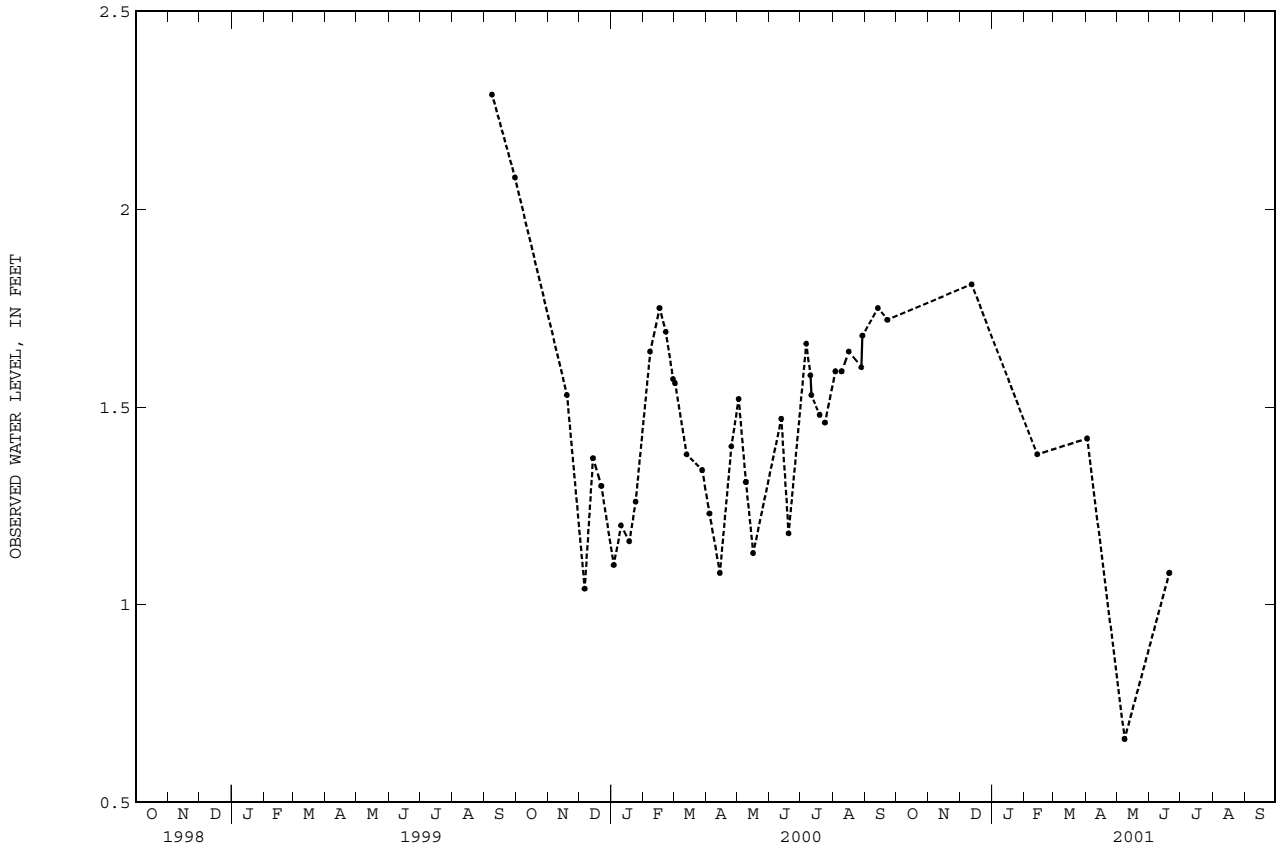
PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.29 ft, Sept. 8, 1999; minimum observed, 0.66 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	1.81	Feb. 13, 2001	1.38
Apr. 2, 2001	1.42	May 8, 2001	0.66
Jun. 20, 2001	1.08		



354540075573101 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 4 (OSS 4)

LOCATION.--Lat 35°45'40", long 75°57'30", Dare County, Hydrologic Unit 03010205, set in canal at intersection of Alligator Road and Poplar Ridge Road, 1.6 mi east of Alligator River, and 6.0 mi south-southwest of Buffalo City.

DRAINAGE AREA.--Indeterminate.

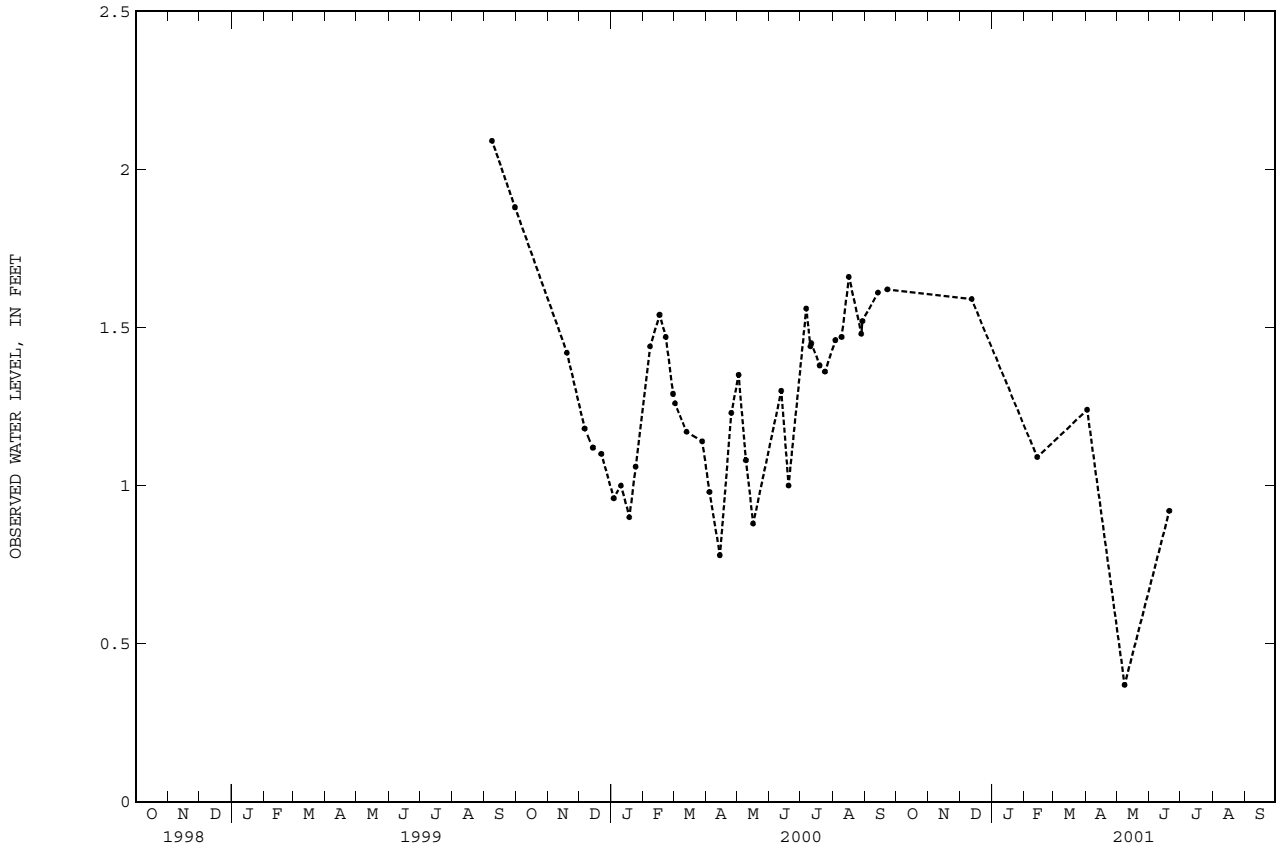
PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.09 ft, Sept. 8, 1999; minimum observed, 0.37, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	1.59	Feb. 13, 2001	1.09
Apr. 2, 2001	1.24	May 8, 2001	0.37
Jun. 20, 2001	0.92		



354503075543601 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 5 (OSS 5) EAST

LOCATION.--Lat 35°45'03", long 75°54'35", Dare County, Hydrologic Unit 03010205, set in canal at intersection of Beechland Road and Navy Lead Road, 4.5 mi east of Alligator River, and 6.3 mi south of Buffalo City.

DRAINAGE AREA.--Indeterminate.

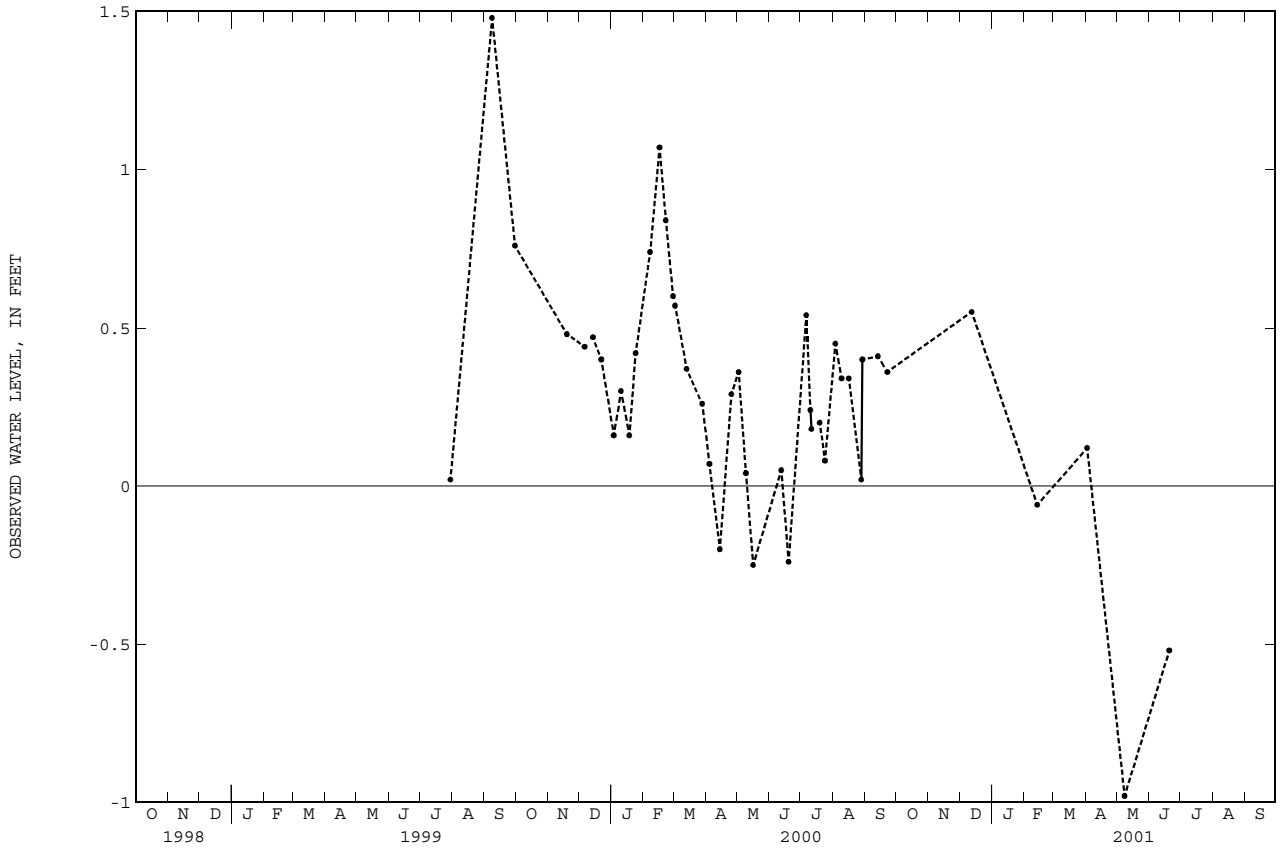
PERIOD OF RECORD.--July 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.48 ft, Sept. 8, 1999; minimum observed, -0.98 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	0.55	Feb. 13, 2001	-0.06
Apr. 2, 2001	0.12	May 8, 2001	-0.98
Jun. 20, 2001	-0.52		



354503075543602 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 5 (OSS 5) WEST

LOCATION.--Lat 35°45'03", long 75°54'36", Dare County, Hydrologic Unit 03010205, set in canal 75 ft west of intersection of Beechland Road and Navy Lead Road, 4.5 mi east of Alligator River, and 6.3 mi south of Buffalo City.

DRAINAGE AREA.--Indeterminate.

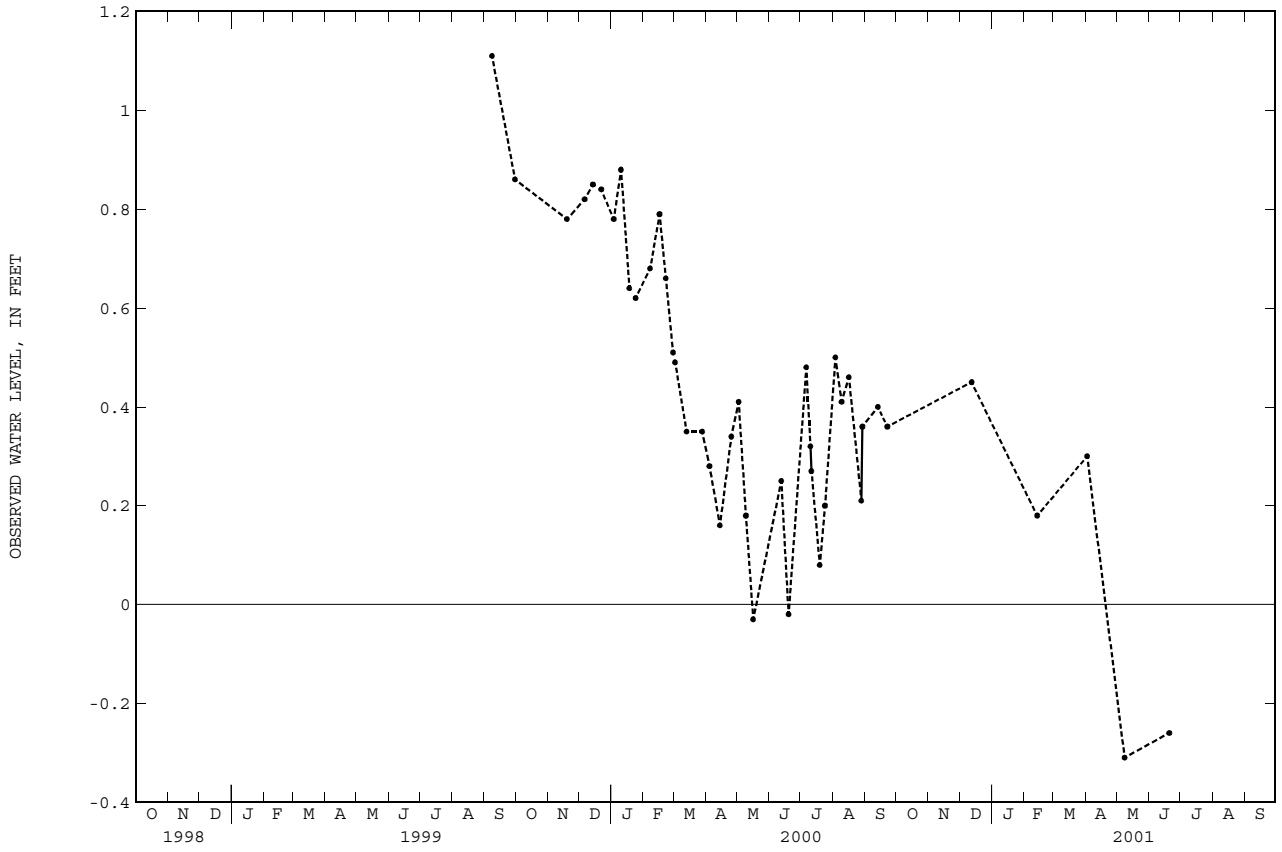
PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 1.11 ft, Sept. 8, 1999; minimum observed, -0.31 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	0.45	Feb. 13, 2001	0.18
Apr. 2, 2001	0.30	May 8, 2001	-0.31
Jun. 20, 2001	-0.26		



354317075534501 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 6 (OSS 6)

LOCATION.--Lat 35°43'17", long 75°53'45", Dare County, Hydrologic Unit 03010205, set in canal on Jackson Road at intersection of Jackson Road and Faircloth Road, 0.8 mi east of Beechland Road, and 2.2 mi north of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

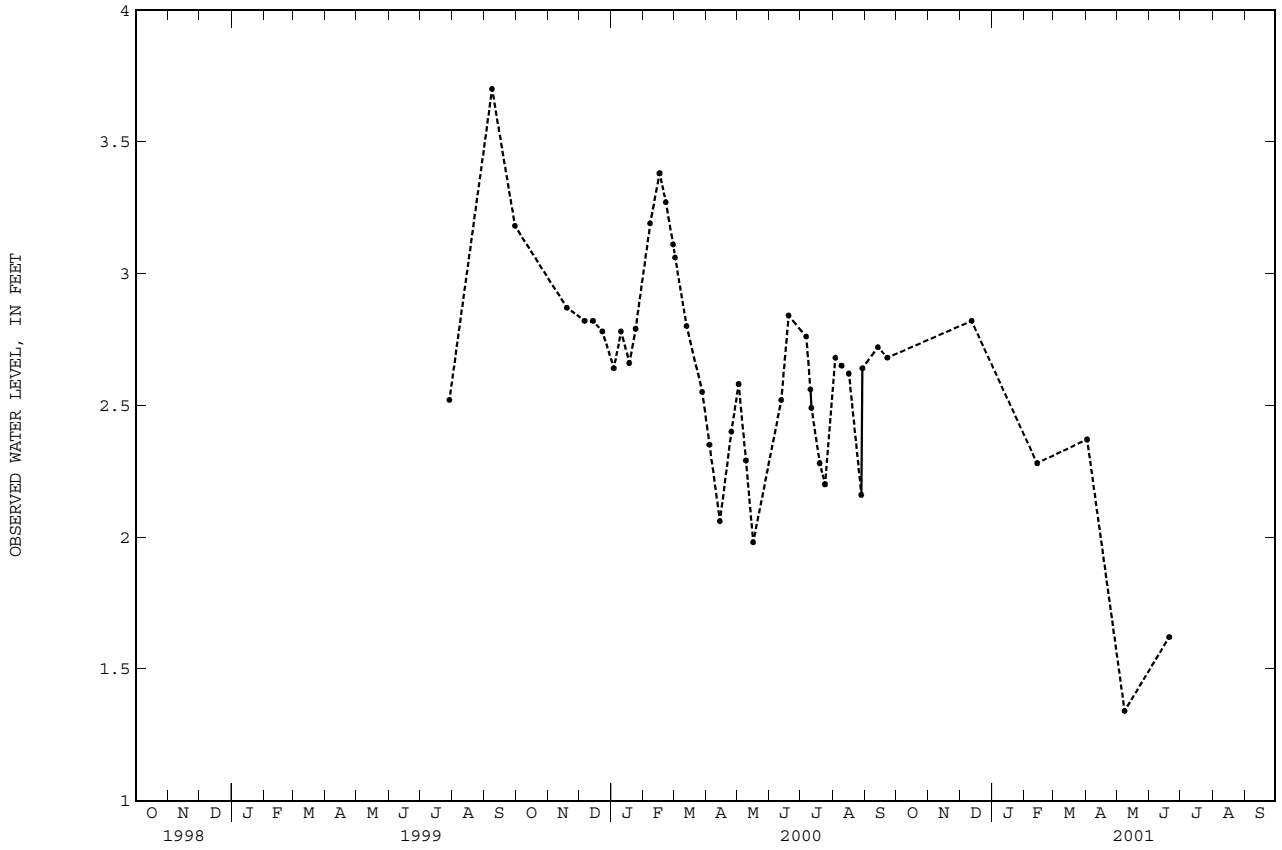
PERIOD OF RECORD.--July 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 3.70 ft, Sept. 8, 1999; minimum observed, 1.34 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	2.82	Feb. 13, 2001	2.28
Apr. 2, 2001	2.37	May 8, 2001	1.34
Jun. 20, 2001	1.62		



354246075543501 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 7 (OSS 7)

LOCATION.--Lat 35°42'46", long 75°54'35", Dare County, Hydrologic Unit 03010205, set in canal at intersection of Beechland Road and Waterfield Road, 1.9 mi northwest of U.S. Air Force Dare County Bombing Range, and 5.0 mi east of Alligator River.

DRAINAGE AREA.--Indeterminate.

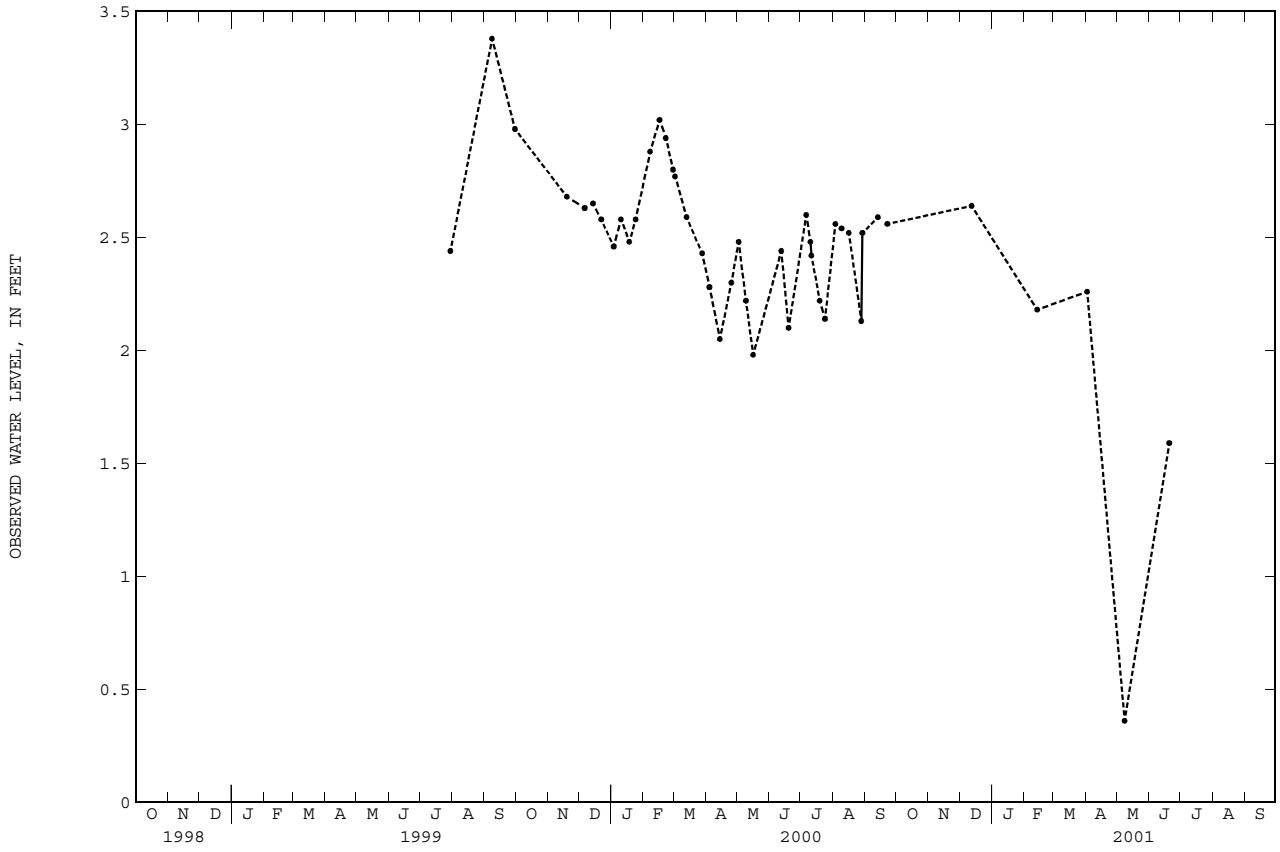
PERIOD OF RECORD.--July 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 3.38 ft, Sept. 8, 1999; minimum observed, 0.36 ft, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 12, 2000	2.64	Feb. 13, 2001	2.18
Apr. 2, 2001	2.26	May 8, 2001	0.36
Jun. 20, 2001	1.59		



354326075473901 ALLIGATOR RIVER NATIONAL WILDLIFE REFUGE - OUTSIDE STAFF PLATE 8 (OSS 8)

LOCATION.--Lat 35°43'23", long 75°47'38", Dare County, Hydrologic Unit 03020105, set in canal on Long Curve Road, 250 ft south of intersection of Jackson Road and Long Curve Road, 1.4 mi west of U.S. Highway 264, and 2.1 mi northwest of Lake Worth.

DRAINAGE AREA.--Indeterminate.

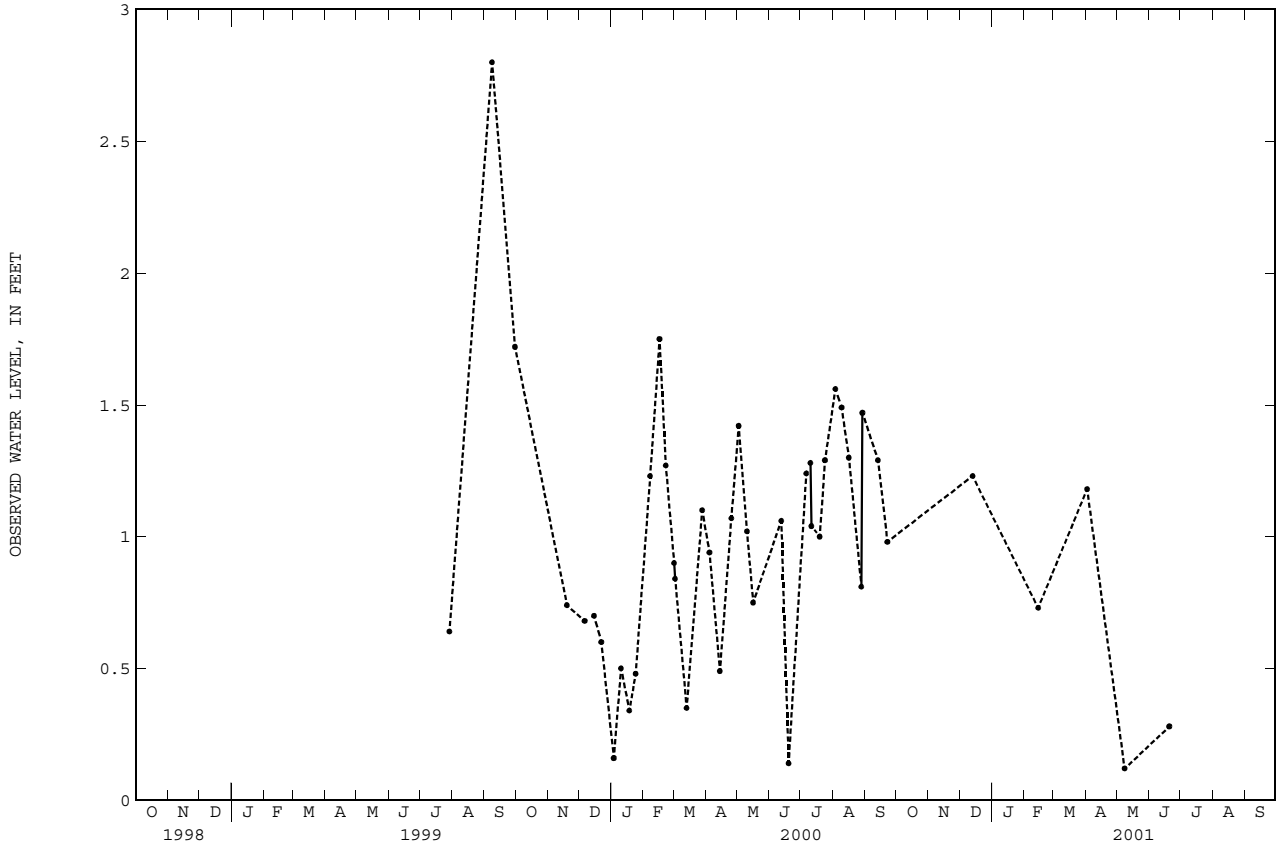
PERIOD OF RECORD.--July 1999 to September 2001 (discontinued).

GAGE.--Periodically observed water level readings from enameled outside staff plate. Staff gage set to read 10.00 ft above sea level. Water levels reported below are adjusted to sea level.

REMARKS.--Site operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

EXTREMES FOR PERIOD OF RECORD.--Maximum observed, 2.80 ft, Sept. 8, 1999; minimum observed, 0.12, May 8, 2001.

DATE	WATER LEVEL	DATE	WATER LEVEL
Dec. 13, 2000	1.23	Feb. 14, 2001	0.73
Apr. 2, 2001	1.18	May 8, 2001	0.12
Jun. 20, 2001	0.28		



Gaging station at Swift Creek at Hillardston, North Carolina.

02053200 POTECASI CREEK NEAR UNION, NC

LOCATION.--Lat 36°22'14", long 77°01'36", 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 sea level. Prior to Dec. 1, 1958, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--Records fair except those below 50 ft^3/s and 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; gage height from outside floodmarks. Minimum discharge for current water year also occurred July 26.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	147	e6.4	104	e68	88	233	500	133	39	24	190	18
2	120	e6.2	101	e62	82	201	833	75	54	16	102	16
3	88	e6.2	86	e58	73	174	995	46	140	12	51	14
4	58	e6.4	80	52	69	165	962	33	106	9.3	31	11
5	39	e7.2	74	50	95	216	896	26	188	9.4	22	11
6	27	e6.6	69	46	164	249	779	21	328	8.1	17	9.8
7	19	e6.2	68	43	169	229	636	17	416	7.1	14	8.9
8	14	e8.0	80	49	173	218	489	15	429	7.0	12	8.1
9	12	e8.4	94	60	188	207	369	14	532	7.9	10	7.9
10	10	e8.1	88	69	187	187	280	13	589	7.3	8.9	7.6
11	9.6	e7.6	89	65	168	161	215	12	527	7.2	8.0	11
12	9.0	e8.0	89	62	141	132	169	11	401	6.6	8.9	e9.0
13	8.3	e8.2	77	63	123	120	133	12	257	5.9	9.5	e8.0
14	7.8	e10	81	63	112	115	102	13	126	6.1	14	e7.9
15	7.4	e9.8	106	64	113	107	80	12	75	5.8	13	e9.0
16	7.2	e9.4	124	62	114	144	65	11	762	5.4	9.9	e8.7
17	e7.4	e10	151	58	183	167	56	10	1610	4.8	8.6	e8.1
18	e7.6	e11	252	56	389	143	52	9.9	2120	4.2	9.0	e8.5
19	e7.8	e12	280	62	372	128	47	9.7	2300	4.7	13	e7.8
20	e8.0	e13	279	87	357	117	43	9.3	1940	4.6	14	e9.0
21	e7.8	e14	301	144	368	250	39	10	1450	4.6	15	e8.0
22	e7.6	e14	284	175	356	634	39	11	996	4.6	15	e7.3
23	e7.4	e13	231	201	382	619	37	11	652	5.2	16	e7.0
24	e7.2	e12	e191	233	382	544	33	11	467	5.8	20	e10
25	e7.4	e20	e160	236	332	509	57	11	308	5.0	23	e17
26	e7.4	e90	e134	214	310	463	128	14	176	4.2	23	e10
27	e7.2	145	e115	181	295	386	144	23	101	145	32	e9.0
28	e7.8	113	e99	146	268	296	173	32	98	377	46	e8.0
29	e7.2	93	e92	115	---	231	197	49	87	234	43	e7.0
30	e6.8	99	e82	99	---	331	176	82	49	202	31	e5.5
31	e6.6	---	e74	92	---	431	---	67	---	250	22	---
TOTAL	694.5	781.7	4135	3035	6053	8107	8724	823.9	17323	1400.8	851.8	288.1
MEAN	22.4	26.1	133	97.9	216	262	291	26.6	577	45.2	27.5	9.60
MAX	147	145	301	236	389	634	995	133	2300	377	190	18
MIN	6.6	6.2	68	43	69	107	33	9.3	39	4.2	8.0	5.5
CFSM	.10	.12	.59	.44	.96	1.16	1.29	.12	2.57	.20	.12	.04
IN.	.11	.13	.68	.50	1.00	1.34	1.44	.14	2.86	.23	.14	.05

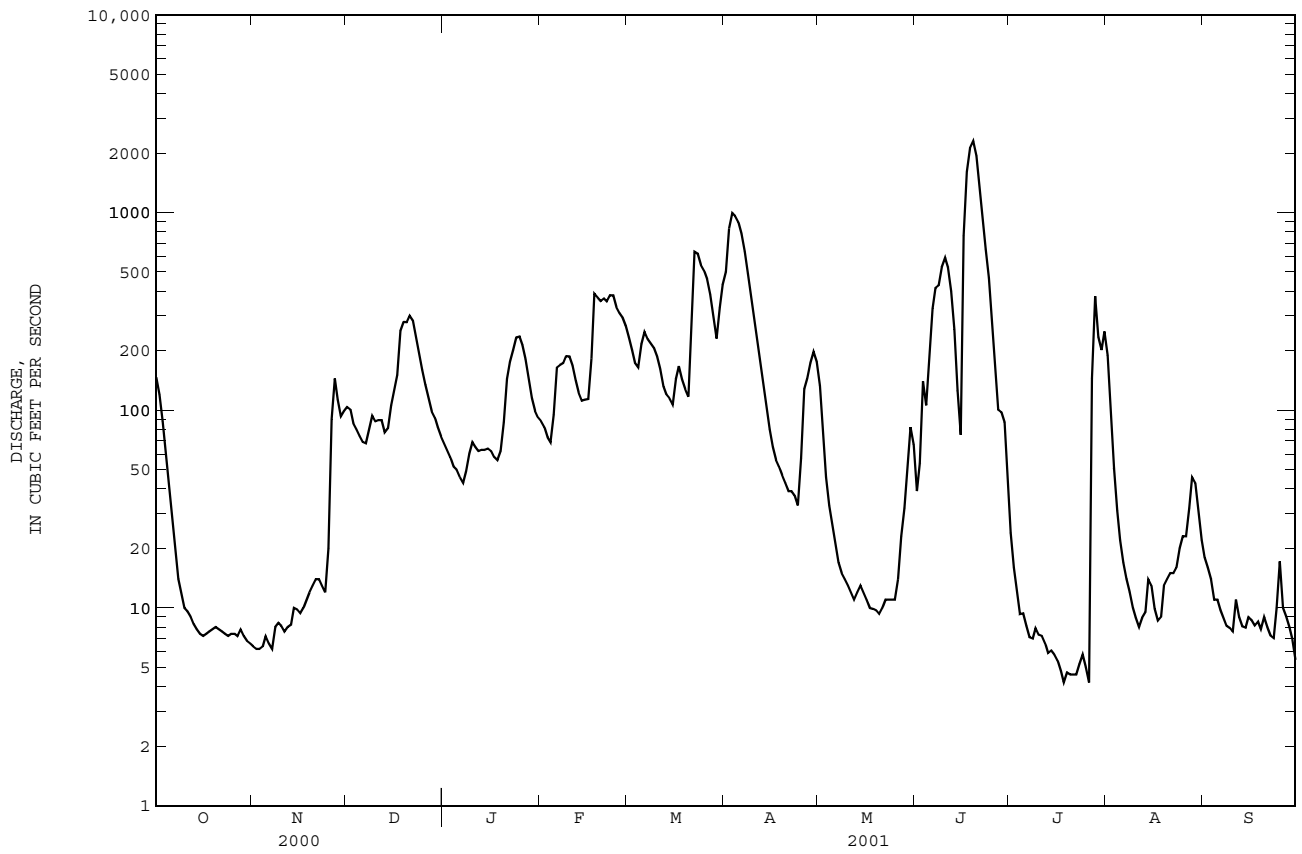
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2001, BY WATER YEAR (WY)

MEAN	131	97.9	198	406	491	461	302	147	117	105	154	141
MAX	1108	619	619	957	1135	1439	994	925	700	531	1131	2515
(WY)	1960	1986	1990	1987	1960	1989	1983	1979	1979	1975	1992	1999
MIN	2.12	5.64	12.0	51.3	54.9	46.7	27.7	5.36	4.71	2.32	2.50	1.65
(WY)	1995	1982	1995	1981	1991	1988	1995	1994	1986	1983	1987	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1959 - 2001	
ANNUAL TOTAL	70913.5		52217.8			
ANNUAL MEAN	194		143		228	
HIGHEST ANNUAL MEAN					458	1979
LOWEST ANNUAL MEAN					73.0	1981
HIGHEST DAILY MEAN	1320	Apr 19	2300	Jun 19	15200	Sep 17 1999
LOWEST DAILY MEAN	6.2	Nov 2	4.2	Jul 18	.30	Jun 30 1959
ANNUAL SEVEN-DAY MINIMUM	6.5	Nov 1	4.7	Jul 17	.51	Jun 25 1959
MAXIMUM PEAK FLOW			2360	Jun 19	17000*	Sep 17 1999
MAXIMUM PEAK STAGE			15.31	Jun 19	28.90*	Sep 17 1999
INSTANTANEOUS LOW FLOW			4.0*	Jul 18	.20	Jul 1 1959
ANNUAL RUNOFF (CFSM)	.86		.64		1.01	
ANNUAL RUNOFF (INCHES)	11.72		8.63		13.77	
10 PERCENT EXCEEDS	528		368		640	
50 PERCENT EXCEEDS	90		58		76	
90 PERCENT EXCEEDS	9.4		7.4		5.4	

e Estimated.
* See REMARKS.

02053200 POTECASI CREEK NEAR UNION, NC--Continued



02053500 AHOSKIE CREEK AT AHOSKIE, NC

LOCATION.--Lat 36°16'48", long 77°00'00", 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 sea level (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 poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	3.2	11	12	9.4	29	452	11	10	10	18	6.1
2	21	3.2	9.8	12	9.3	26	513	10	22	9.7	13	6.0
3	16	3.2	10	11	8.7	24	257	9.5	16	9.3	11	5.8
4	12	3.2	11	11	8.4	52	158	8.5	10	9.0	9.5	5.7
5	9.7	3.7	11	11	26	82	101	8.3	8.6	8.9	8.7	5.7
6	8.5	3.1	14	11	34	69	74	7.6	77	8.4	8.2	5.5
7	7.2	3.1	16	11	24	50	57	7.4	33	7.5	7.5	5.4
8	6.5	4.0	21	12	20	40	45	7.3	16	7.8	6.7	5.4
9	6.1	3.2	21	13	17	33	37	7.2	11	8.0	6.4	5.5
10	5.7	2.9	18	12	15	28	31	6.9	8.3	7.4	6.2	5.6
11	5.5	3.3	16	12	13	25	27	6.4	7.2	7.6	6.1	7.3
12	5.2	3.8	15	11	12	23	25	7.0	6.4	6.8	6.0	5.5
13	5.0	3.5	13	11	13	27	23	7.0	6.0	6.0	6.1	5.2
14	4.7	4.5	15	11	16	30	21	6.6	8.4	5.4	12	5.2
15	4.6	4.4	20	12	17	33	19	6.3	159	5.1	8.4	5.2
16	4.5	3.8	19	12	17	58	17	6.6	1760	4.8	6.6	5.0
17	4.3	3.7	42	11	113	45	16	6.8	2830	4.8	6.0	4.8
18	4.3	4.0	50	11	92	36	25	6.8	2560	5.0	10	4.9
19	3.9	4.5	32	11	55	30	16	6.7	1410	4.5	25	4.6
20	3.8	5.5	27	15	42	26	14	12	331	4.8	16	5.2
21	3.7	5.2	23	21	35	307	13	11	123	4.6	9.4	5.0
22	3.5	4.7	21	17	50	237	12	8.3	72	4.6	7.4	5.0
23	3.5	4.0	19	15	107	127	11	8.4	49	4.5	6.6	5.0
24	3.5	3.6	17	14	65	77	11	7.4	33	4.4	18	8.9
25	3.5	14	16	12	50	55	37	6.9	26	4.4	12	40
26	3.6	54	15	11	46	44	36	7.9	22	5.5	7.4	16
27	3.5	24	14	11	39	36	25	8.6	18	298	6.2	7.7
28	3.6	16	14	9.8	33	31	19	8.0	15	114	6.6	5.8
29	3.3	13	14	9.5	---	52	15	7.9	12	42	6.1	4.8
30	3.3	12	13	10	---	187	12	7.4	12	46	6.0	4.2
31	3.2	---	12	9.7	---	132	---	7.4	---	27	5.9	---
TOTAL	202.7	224.3	569.8	373.0	986.8	2051	2119	245.1	9671.9	695.8	289.0	212.0
MEAN	6.54	7.48	18.4	12.0	35.2	66.2	70.6	7.91	322	22.4	9.32	7.07
MAX	26	54	50	21	113	307	513	12	2830	298	25	40
MIN	3.2	2.9	9.8	9.5	8.4	23	11	6.3	6.0	4.4	5.9	4.2
CFSM	.10	.12	.29	.19	.56	1.05	1.12	.12	5.09	.35	.15	.11
IN.	.12	.13	.33	.22	.58	1.21	1.25	.14	5.68	.41	.17	.12

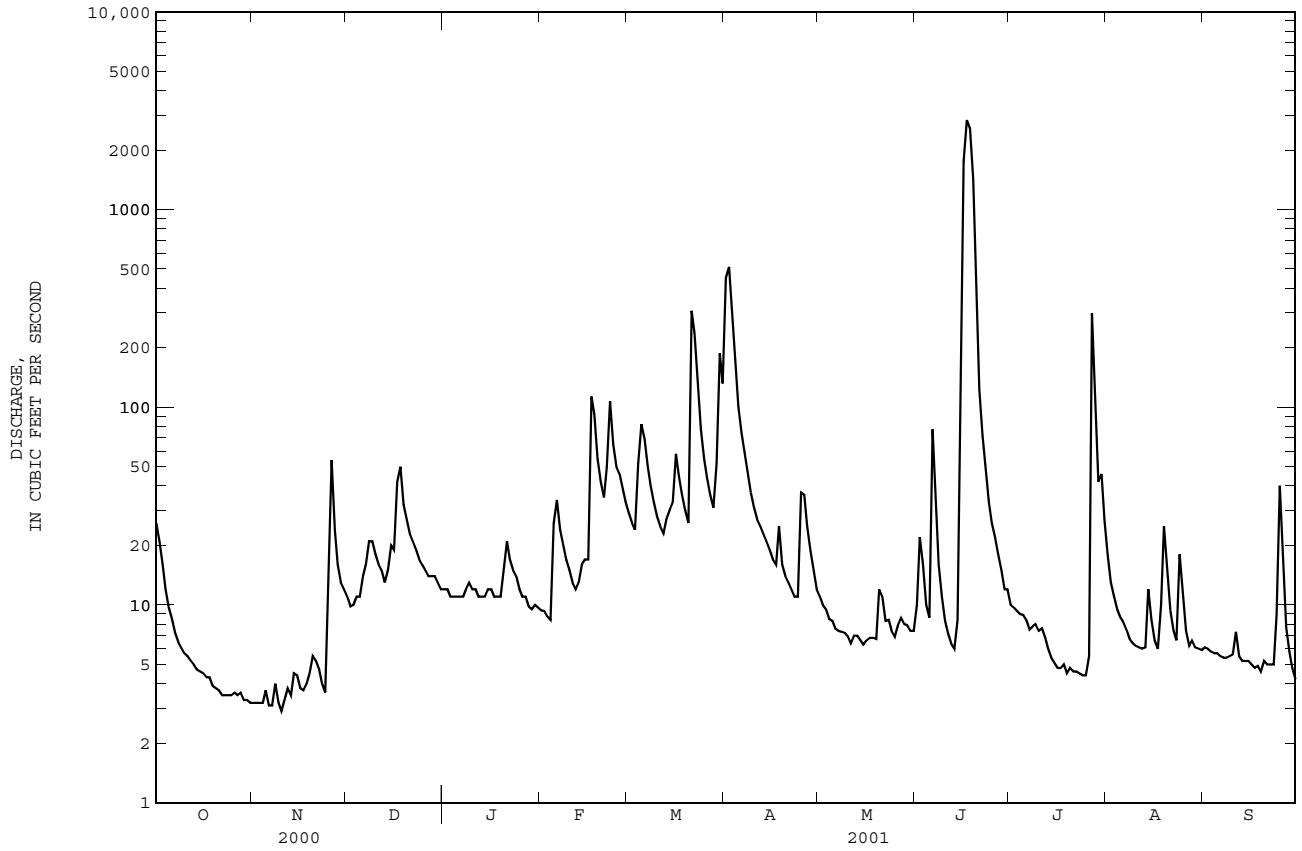
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	41.1	22.8	45.9	102	124	125	73.1	44.2	39.1	31.5	45.2	46.6
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	3.01	3.21	3.10	7.66	18.9	17.3	8.73	4.21	5.43	3.55	3.59	3.41
(WY)	1977	1982	1995	1981	1968	1988	1985	1986	1986	1987	1983	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	16666.7		17640.4			
ANNUAL MEAN	45.5		48.3		61.4	
HIGHEST ANNUAL MEAN					109	1979
LOWEST ANNUAL MEAN					14.7	1981
HIGHEST DAILY MEAN	669	Jan 31	2830	Jun 17	7710	Sep 17 1999
LOWEST DAILY MEAN	2.9	Nov 10	2.9	Nov 10	.61	Oct 8 1988
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 29	3.2	Oct 29	.85	Sep 27 1988
MAXIMUM PEAK FLOW			3100	Jun 17	8570	Sep 17 1999
MAXIMUM PEAK STAGE			13.13	Jun 17	17.32	Sep 17 1999
INSTANTANEOUS LOW FLOW			2.3	Nov 12	.45*	Oct 8 1988
ANNUAL RUNOFF (CFSM)	.72		.76		.97	
ANNUAL RUNOFF (INCHES)	9.79		10.37		13.18	
10 PERCENT EXCEEDS	108		51		134	
50 PERCENT EXCEEDS	21		11		17	
90 PERCENT EXCEEDS	4.5		4.4		4.3	

* Canalized period only (1964-2001). See REMARKS.

02053500 AHOSKIE CREEK AT AHOSKIE, NC--Continued



02068500 DAN RIVER NEAR FRANCISCO, NC

LOCATION.--Lat 36°30'53", 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 sea level. 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 and those for discharges above 1,000 ft^3/s, 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	88	58	86	140	87	94	e200	86	115	78	95	142
2	83	59	78	132	85	91	e196	91	139	69	113	122
3	118	57	69	125	92	95	e190	94	126	68	108	102
4	162	54	112	156	96	106	165	94	114	117	118	106
5	174	59	98	183	99	101	159	99	117	103	110	96
6	157	58	75	149	101	102	151	106	140	71	143	139
7	157	58	68	120	100	118	144	92	110	77	144	88
8	68	54	69	113	94	91	140	80	113	164	173	87
9	67	84	68	107	93	88	157	82	104	129	162	87
10	63	139	71	103	95	82	133	74	112	138	156	87
11	76	79	70	114	81	80	134	72	122	139	131	139
12	86	70	69	84	79	80	134	68	123	126	125	88
13	65	69	70	75	108	101	136	67	112	79	198	80
14	67	69	87	75	97	92	118	66	108	74	149	81
15	69	67	74	76	88	101	113	55	150	70	125	82
16	68	103	78	79	88	121	114	114	159	104	126	80
17	69	91	163	76	128	102	100	139	104	65	98	80
18	83	65	118	88	105	93	105	101	84	81	84	73
19	68	97	97	149	97	88	106	93	83	74	111	77
20	65	112	125	264	99	92	111	130	82	70	e500	92
21	66	143	191	165	92	221	105	139	127	70	e300	85
22	67	146	105	128	93	197	103	e560	152	104	e200	118
23	66	83	162	114	124	152	100	e450	302	58	e160	78
24	69	65	135	107	100	145	91	e350	174	66	e140	253
25	65	70	105	98	118	133	96	e250	124	77	e130	165
26	65	93	151	94	135	124	96	234	109	87	e120	105
27	60	74	139	96	107	117	88	189	102	127	e118	94
28	62	66	93	88	101	105	93	178	114	125	e116	86
29	62	68	99	86	---	193	84	167	127	182	95	84
30	61	69	107	95	---	497	83	120	132	190	85	82
31	58	---	86	93	---	236	---	109	---	115	89	---
TOTAL	2554	2379	3118	3572	2782	4038	3745	4549	3780	3097	4522	3078
MEAN	82.4	79.3	101	115	99.4	130	125	147	126	99.9	146	103
MAX	174	146	191	264	135	497	200	560	302	190	500	253
MIN	58	54	68	75	79	80	83	55	82	58	84	73
†	-20	-5	-6	+6	+4	+22	+6	+22	-6	-10	-8	-13

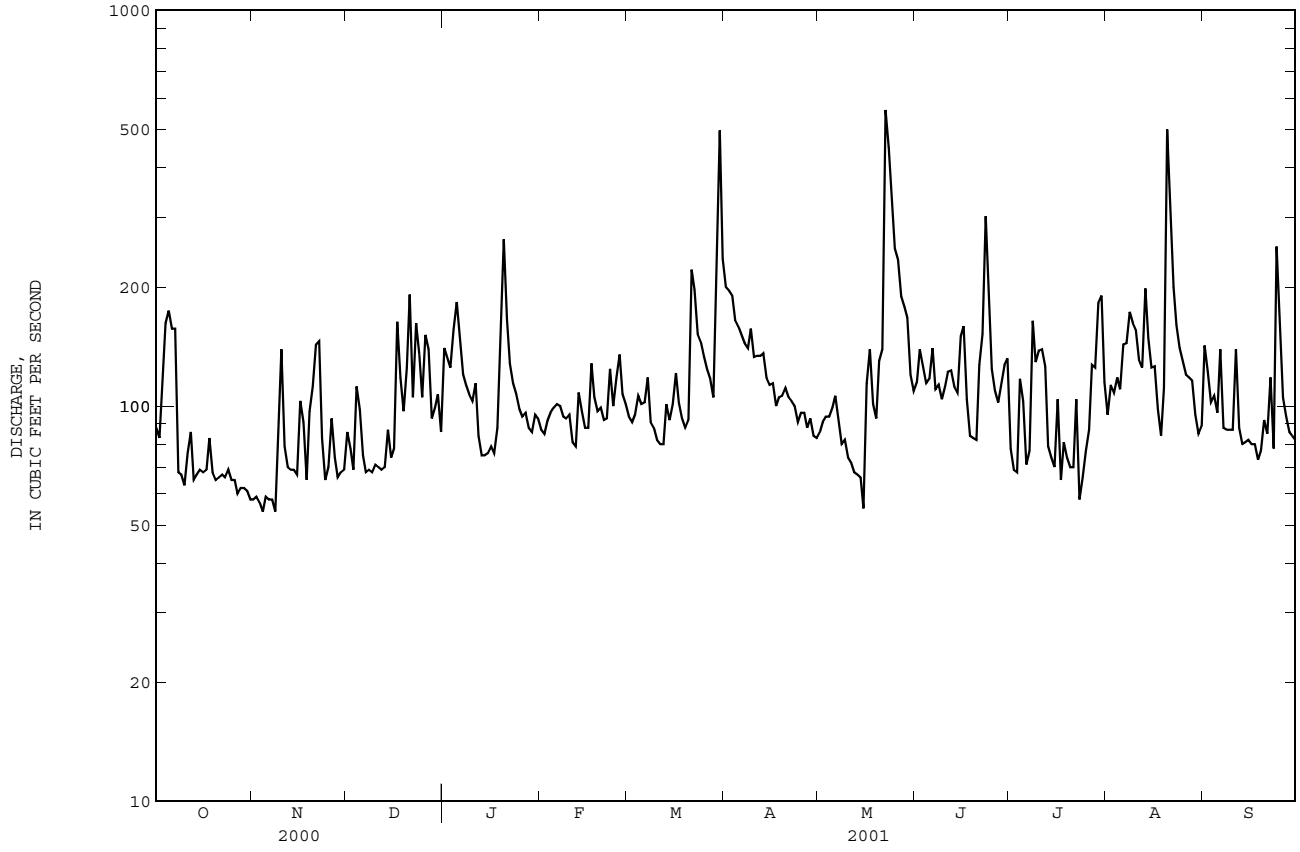
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2001,*@ BY WATER YEAR (WY)

MEAN	149	155	176	199	221	260	267	219	196	165	165	148
MAX	543	327	479	424	463	571	677	405	438	373	514	630
(WY)	1938	1980	1997	1978	1960	1993	1980	1949	1972	1938	1940	1979
MIN	49.7	61.3	77.5	76.2	94.9	94.2	120	95.3	78.3	54.8	52.5	50.4
(WY)	1964	1954	1998	1956	1956	1981	1967	2000	1967	1986	1981	1968

02068500 DAN RIVER NEAR FRANCISCO, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1938 - 2001*@	
ANNUAL TOTAL	40692		41214			
ANNUAL MEAN	111		113	‡112	193	UNADJUSTED)
HIGHEST ANNUAL MEAN					300	1960
LOWEST ANNUAL MEAN					97.5	1956
HIGHEST DAILY MEAN	482	Mar 21	560	May 22	6830	Sep 22 1979
LOWEST DAILY MEAN	43	Jun 1	54	Nov 4	21	Sep 4 1999
ANNUAL SEVEN-DAY MINIMUM	57	Nov 2	57	Nov 2	28	Aug 24 1981
MAXIMUM PEAK FLOW			1820	Aug 20	21200	Aug 17 1985
MAXIMUM PEAK STAGE			4.18	Aug 20	19.50	Aug 17 1985
INSTANTANEOUS LOW FLOW			51	Dec 31	7.1	Sep 8 1932
10 PERCENT EXCEEDS	169		162		316	
50 PERCENT EXCEEDS	100		100		154	
90 PERCENT EXCEEDS	63		68		82	

e Estimated.
† Change in contents, equivalent in cubic feet per second, in Talbott and Townes Reservoirs by City of Danville, Virginia.
* Regulated period only (1938-2001). See REMARKS.
@ See PERIOD OF RECORD.
‡ Adjusted for change in contents.



02070500 MAYO RIVER NEAR PRICE, NC

LOCATION.--Lat 36°32'05", long 79°59'30", 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 sea level. Prior to Oct. 29, 1929, 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 also occurred July 25, Sept. 16, 17, 18, 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	132	118	135	e134	170	195	512	163	208	147	180	122
2	126	119	134	e134	159	184	551	162	211	151	158	171
3	122	120	133	e133	153	179	389	164	184	137	139	128
4	114	123	e132	e133	149	202	348	158	167	152	125	122
5	109	122	e131	e132	149	224	312	150	162	220	118	121
6	105	120	e133	e131	147	200	294	155	168	155	110	109
7	101	120	134	e130	144	180	281	154	270	128	102	102
8	97	126	131	e129	142	173	271	142	191	135	95	97
9	95	146	130	e129	141	171	259	144	168	179	90	94
10	95	256	132	e128	143	164	251	141	151	166	85	94
11	100	191	137	e127	140	160	246	135	146	132	132	97
12	101	148	135	e127	138	160	241	129	145	116	254	89
13	102	139	128	e126	148	200	243	124	134	107	183	82
14	102	141	138	125	153	205	243	117	130	105	603	79
15	103	137	149	126	153	201	225	119	132	98	207	77
16	103	131	154	125	156	272	221	270	215	92	152	77
17	103	133	290	121	256	240	210	314	139	88	129	73
18	104	131	265	142	242	215	205	247	118	87	120	73
19	102	129	203	281	199	198	199	199	108	94	184	72
20	104	133	e190	663	184	196	197	322	106	91	395	81
21	105	130	e180	412	175	874	196	475	109	83	235	115
22	111	124	e170	278	171	777	195	1180	175	79	163	89
23	108	126	e160	233	172	413	191	661	456	75	136	80
24	111	127	e150	215	180	322	192	366	244	73	146	100
25	114	143	e140	194	195	283	207	353	213	91	128	309
26	117	218	e138	173	271	259	184	431	201	136	115	139
27	117	192	e137	173	230	241	178	320	252	264	111	107
28	118	160	e137	161	210	228	173	263	192	216	159	94
29	116	146	e136	159	---	354	168	238	165	285	128	86
30	117	141	e135	173	---	1660	162	212	150	374	113	82
31	117	---	e135	200	---	564	---	191	---	243	105	---
TOTAL	3371	4290	4732	5647	4870	9894	7544	8199	5410	4499	5100	3161
MEAN	109	143	153	182	174	319	251	264	180	145	165	105
MAX	132	256	290	663	271	1660	551	1180	456	374	603	309
MIN	95	118	128	121	138	160	162	117	106	73	85	72
CFSM	.45	.59	.63	.75	.72	1.32	1.04	1.09	.75	.60	.68	.44
IN.	.52	.66	.73	.87	.75	1.52	1.16	1.26	.83	.69	.78	.49

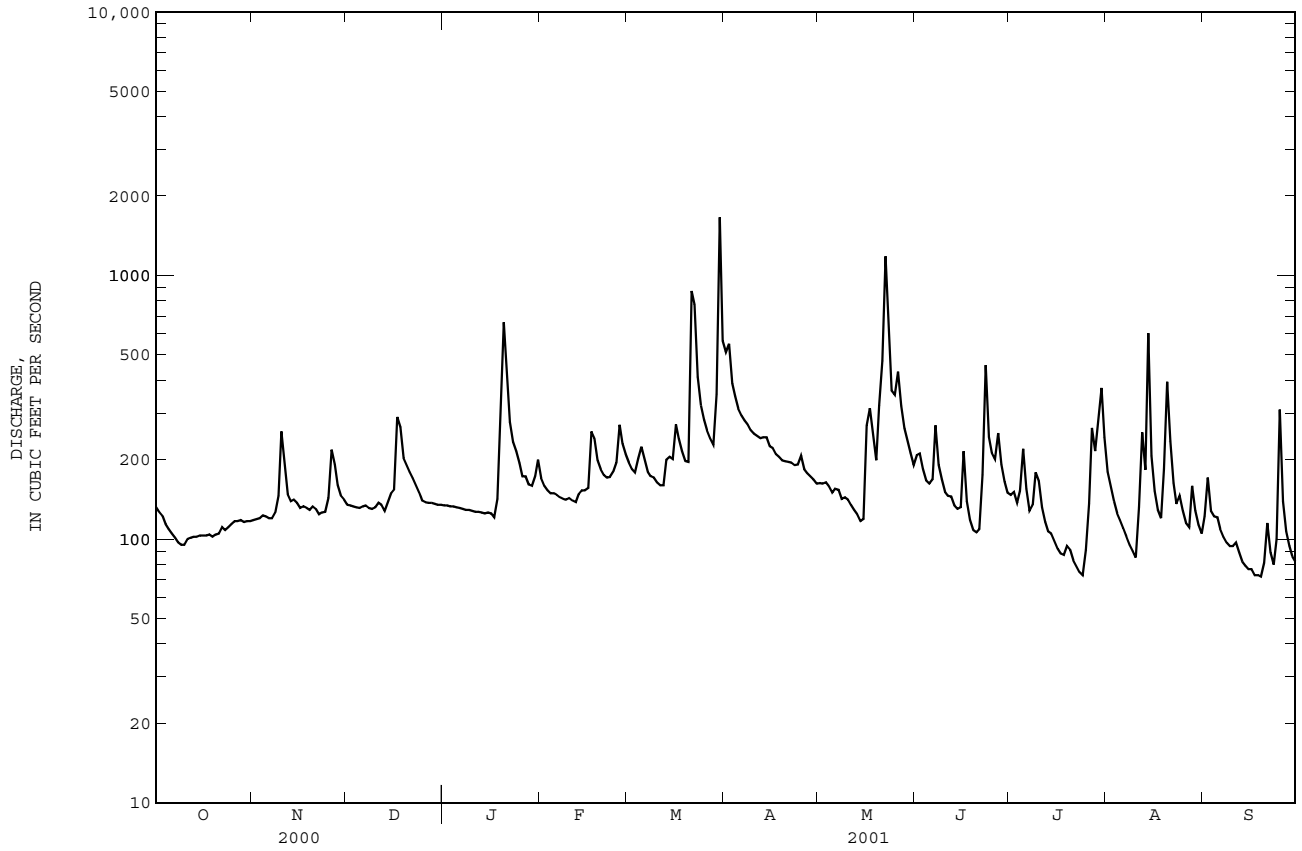
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001,@ BY WATER YEAR (WY)

MEAN	271	243	289	358	392	425	394	325	286	251	253	243
MAX	1250	578	661	1022	900	982	694	659	654	609	943	1002
(WY)	1938	1958	1997	1936	1960	1994	1958	1949	1943	1949	1940	1945
MIN	84.5	95.9	118	112	139	221	175	157	123	103	89.9	62.0
(WY)	1932	1932	1956	1956	1931	1940	1967	1956	1999	1966	1930	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001@	
ANNUAL TOTAL	69205		66717			
ANNUAL MEAN	189		183		310	
HIGHEST ANNUAL MEAN					479	1949
LOWEST ANNUAL MEAN					170	1956
HIGHEST DAILY MEAN	1600	Mar 21	1660	Mar 30	11400	Sep 18 1945
LOWEST DAILY MEAN	53	Aug 24	72	Sep 19	35	Oct 8 1954
ANNUAL SEVEN-DAY MINIMUM	58	Aug 18	76	Sep 14	45	Sep 19 1956
MAXIMUM PEAK FLOW			2950	Mar 30	30000	Oct 19 1937
MAXIMUM PEAK STAGE			4.88	Mar 30	14.00	Oct 19 1937
INSTANTANEOUS LOW FLOW			72*	Jul 24	32	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.78		.76		1.28	
ANNUAL RUNOFF (INCHES)	10.64		10.26		17.42	
10 PERCENT EXCEEDS	296		271		495	
50 PERCENT EXCEEDS	160		146		232	
90 PERCENT EXCEEDS	96		100		125	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

02070500 MAYO RIVER NEAR PRICE, NC--Continued



02071000 DAN RIVER NEAR WENTWORTH, NC

LOCATION.--Lat 36°24'45", long 79°49'35", 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 sea level. 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. Minimum discharge for current water year also occurred Sept. 20.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	475	287	351	350	530	613	2880	473	555	359	506	266
2	451	287	344	433	484	573	2800	473	639	325	426	419
3	429	293	368	378	467	554	1710	475	576	310	374	409
4	440	296	331	326	452	687	1450	460	501	337	333	312
5	465	295	310	432	461	877	1200	437	475	657	316	322
6	460	291	405	457	456	806	1010	432	551	513	301	298
7	438	294	374	410	444	689	941	430	845	339	317	306
8	415	304	345	428	439	650	877	408	631	320	297	257
9	312	340	336	474	430	592	815	402	525	481	300	243
10	298	515	335	370	443	564	794	399	464	454	285	242
11	303	573	347	372	438	533	743	399	424	394	e300	242
12	306	407	353	430	424	524	717	382	420	347	e1000	278
13	330	353	339	377	463	584	728	368	412	314	e800	237
14	310	365	346	386	506	627	740	342	402	273	e2400	215
15	298	372	388	367	515	624	672	332	420	256	713	207
16	300	344	413	363	508	964	649	546	497	238	452	203
17	298	357	646	354	1120	868	624	853	474	262	367	199
18	296	383	856	399	1120	728	599	741	384	222	396	197
19	302	341	615	851	774	647	584	560	331	224	791	185
20	289	366	518	2920	656	625	575	778	316	233	918	198
21	290	371	361	2140	612	2480	566	853	328	216	955	238
22	290	403	551	1120	578	3370	559	1720	381	203	492	264
23	292	405	355	824	565	1720	545	1920	670	225	386	258
24	284	371	410	715	587	1240	544	1090	709	203	520	247
25	292	358	494	645	612	1050	772	922	502	190	431	630
26	308	470	377	568	812	936	665	1280	449	318	334	527
27	296	523	420	543	765	796	563	1050	509	533	301	326
28	295	431	483	521	665	699	528	813	446	567	292	281
29	287	378	383	495	---	954	505	727	396	568	345	260
30	284	356	423	516	---	7330	481	657	373	905	290	233
31	284	---	351	572	---	2570	---	567	---	780	262	---
TOTAL	10417	11129	12928	19536	16326	36474	26836	21289	14605	11566	16200	8499
MEAN	336	371	417	630	583	1177	895	687	487	373	523	283
MAX	475	573	856	2920	1120	7330	2880	1920	845	905	2400	630
MIN	284	287	310	326	424	524	481	332	316	190	262	185
CFSM	.32	.35	.40	.60	.55	1.12	.85	.65	.46	.35	.50	.27
IN.	.37	.39	.46	.69	.58	1.29	.95	.75	.52	.41	.57	.30

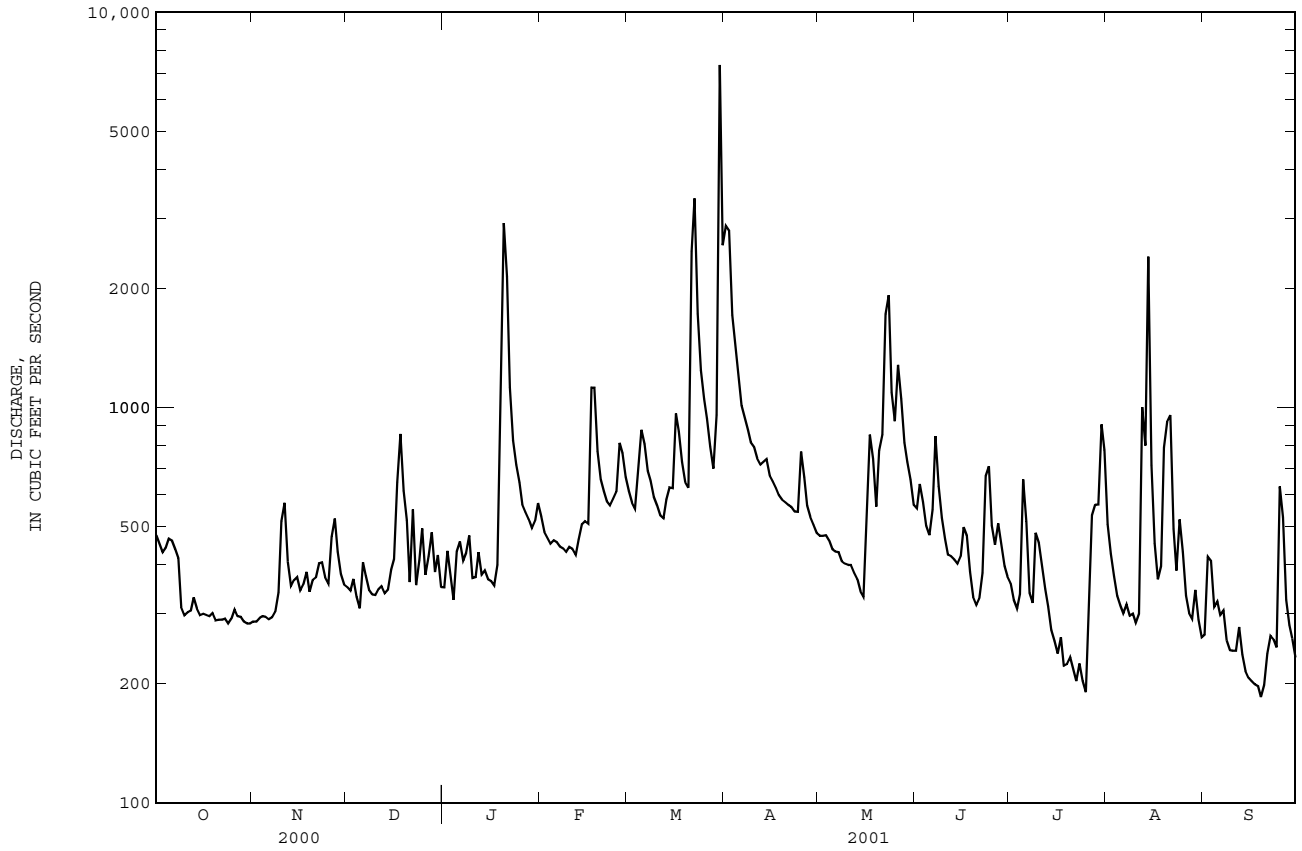
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	891	901	1128	1398	1604	1864	1684	1298	1079	895	820	847
MAX	3676	2963	2458	3274	4308	5345	4951	3149	4220	2345	3067	3667
(WY)	1960	1958	1997	1978	1960	1975	1987	1972	1972	1949	1940	1979
MIN	237	297	417	392	583	661	592	515	333	268	218	166
(WY)	1954	1954	2001	1956	2001	1985	1985	1981	1986	1986	1981	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	246377		205805			
ANNUAL MEAN	673		564		1199	
HIGHEST ANNUAL MEAN					1985	1960
LOWEST ANNUAL MEAN					564	2001
HIGHEST DAILY MEAN	5630	Mar 21	7330	Mar 30	47800	Jun 22 1972
LOWEST DAILY MEAN	198	Aug 24	185	Sep 19	107	Oct 2 1954
ANNUAL SEVEN-DAY MINIMUM	209	Aug 21	201	Sep 14	126	Oct 6 1954
MAXIMUM PEAK FLOW			10000	Mar 30	54200	Jun 22 1972
MAXIMUM PEAK STAGE			13.53	Mar 30	31.60*	Jun 22 1972
INSTANTANEOUS LOW FLOW			176*	Sep 19	65	Oct 8 1954
ANNUAL RUNOFF (CFSM)	.64		.54		1.14	
ANNUAL RUNOFF (INCHES)	8.70		7.27		15.48	
10 PERCENT EXCEEDS	1160		861		2000	
50 PERCENT EXCEEDS	539		432		821	
90 PERCENT EXCEEDS	294		284		407	

e Estimated.
* See REMARKS.

02071000 DAN RIVER NEAR WENTWORTH, NC--Continued



02074000 SMITH RIVER AT EDEN, NC

LOCATION.--Lat 36°31'31", long 79°45'57", 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 sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	219	233	259	278	287	296	910	297	473	195	434	139
2	289	233	158	404	276	306	1100	294	448	197	437	126
3	248	234	256	321	184	246	634	289	260	431	401	131
4	240	243	299	340	223	277	561	286	278	474	392	161
5	229	161	248	313	377	447	467	192	407	1270	169	177
6	227	298	249	211	275	320	419	304	322	588	162	220
7	207	256	246	289	256	304	286	364	368	501	381	288
8	221	235	241	291	261	295	374	300	372	360	391	357
9	283	277	237	297	255	290	465	253	211	311	385	120
10	216	331	165	252	216	240	342	285	249	317	374	135
11	204	295	321	251	221	280	343	304	296	261	411	286
12	210	177	253	251	321	309	330	238	432	222	291	266
13	232	306	248	215	278	332	341	276	399	238	253	255
14	223	259	239	225	263	313	249	250	425	228	456	269
15	215	264	278	284	271	327	357	293	409	222	416	237
16	148	257	185	256	269	440	324	1010	405	245	406	105
17	268	259	419	250	420	288	386	767	196	204	389	140
18	213	167	537	266	393	335	323	532	204	246	393	247
19	215	251	332	450	397	411	318	376	397	233	433	251
20	236	293	308	957	309	328	311	2000	374	217	243	259
21	146	247	258	691	303	1310	190	957	381	193	415	286
22	239	243	279	572	292	1060	323	4300	424	133	406	220
23	261	152	246	375	298	657	379	1900	565	194	406	131
24	238	312	188	353	214	359	318	963	267	244	451	201
25	230	269	250	312	361	452	300	710	301	191	418	323
26	236	279	419	297	445	446	300	1080	437	222	176	339
27	260	408	262	242	346	351	389	1080	576	324	159	243
28	221	279	252	240	323	331	203	984	438	310	405	316
29	159	271	249	336	---	447	313	744	397	305	408	218
30	287	257	247	322	---	2250	357	482	382	312	376	134
31	238	---	154	311	---	761	---	542	---	470	313	---
TOTAL	7058	7746	8282	10452	8334	14808	11912	22652	11093	9858	11150	6580
MEAN	228	258	267	337	298	478	397	731	370	318	360	219
MAX	289	408	537	957	445	2250	1100	4300	576	1270	456	357
MIN	146	152	154	211	184	240	190	192	196	133	159	105
†	-55	-26	-11	+10	+18	+157	+63	+106	-11	-58	-152	-73

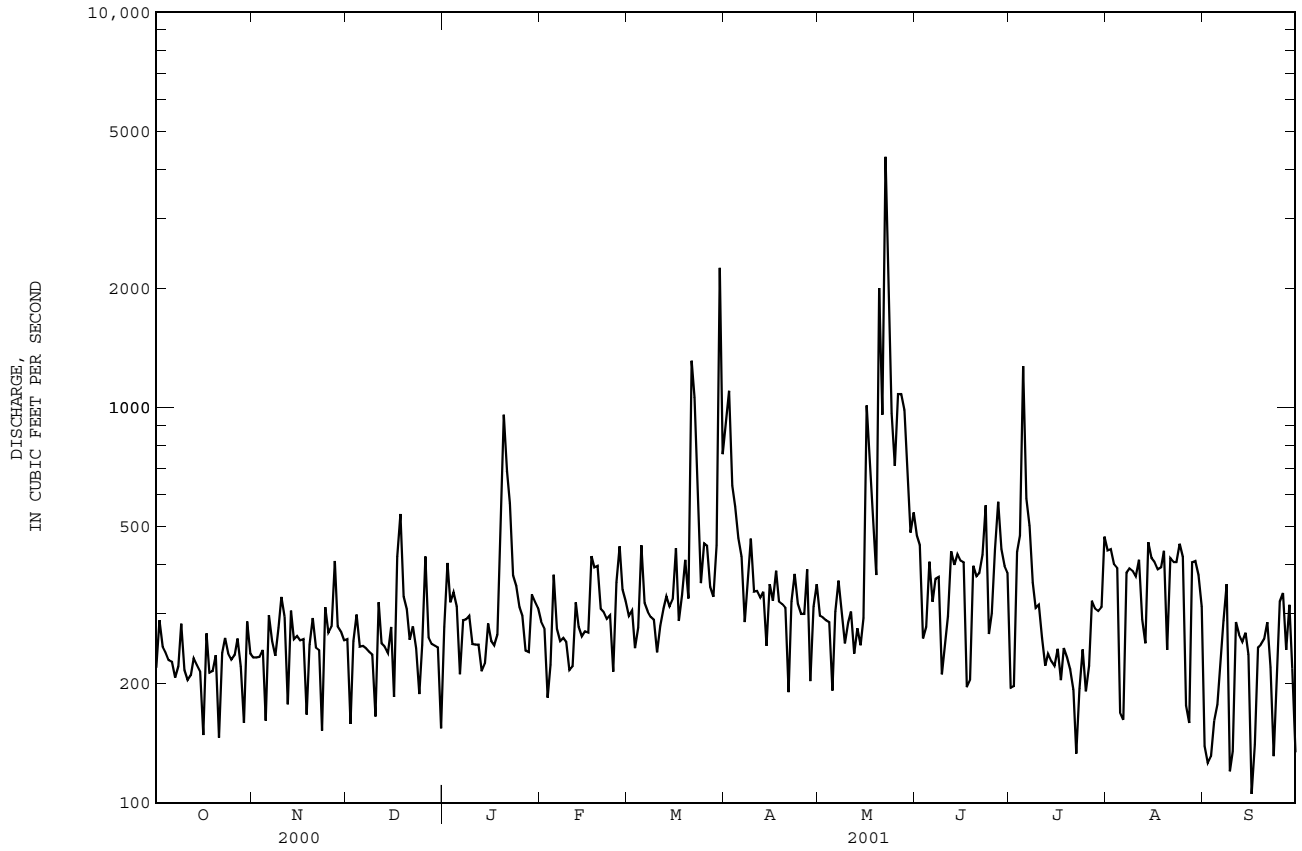
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001,* BY WATER YEAR (WY)

MEAN	507	497	583	688	733	891	884	707	634	506	490	525
MAX	1572	1530	1376	1453	1633	2519	3016	1567	2026	1374	1454	2030
(WY)	1990	1986	1997	1979	1998	1993	1987	1978	1972	1989	1985	1996
MIN	201	211	267	291	298	331	294	266	213	214	194	219
(WY)	1952	1982	2001	1989	2001	1967	1967	1964	1964	1981	1953	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001*	
ANNUAL TOTAL	124528		129925			
ANNUAL MEAN	340		356	‡353	636	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1010	1987
LOWEST ANNUAL MEAN					309	1981
HIGHEST DAILY MEAN	2700	Sep 3	4300	May 22	16700	Jun 21 1972
LOWEST DAILY MEAN	124	Aug 27	105	Sep 16	46	Aug 14 1967
ANNUAL SEVEN-DAY MINIMUM	174	Aug 21	177	Sep 1	130	Aug 21 1964
MAXIMUM PEAK FLOW			8480	May 22	24800	Jun 21 1972
MAXIMUM PEAK STAGE			9.07	May 22	16.24	Jun 21 1972
INSTANTANEOUS LOW FLOW			79	Dec 31	38	Aug 7 1967
10 PERCENT EXCEEDS	493		468		1170	
50 PERCENT EXCEEDS	286		291		448	
90 PERCENT EXCEEDS	202		197		225	

† Change in contents, equivalent in cubic feet per second, in Philpott Lake provided by U.S. Army Corps of Engineers.
‡ Adjusted for change in contents.
* Regulated period only (1951-2001). See REMARKS.

02074000 SMITH RIVER AT EDEN, NC--Continued



02077200 HYCO CREEK NEAR LEASBURG, NC

LOCATION.--Lat 36°23'57", long 79°11'50", 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 sea level. Satellite telemetry at station.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.0	2.2	3.3	e5.2	11	16	419	7.7	41	1.9	17	.27
2	3.7	2.2	3.3	e4.9	10	14	524	7.5	115	1.8	9.3	.48
3	3.4	2.2	3.2	e4.8	9.5	13	133	7.0	39	1.5	6.5	.47
4	3.1	3.1	3.2	e4.7	9.2	29	93	6.9	19	1.5	4.8	.27
5	2.7	2.6	3.4	e4.9	10	60	72	6.2	13	2.2	4.8	.18
6	2.5	2.5	3.6	e5.3	12	61	61	5.6	42	2.4	4.1	.18
7	2.5	2.6	3.6	e5.5	9.6	39	53	5.4	25	1.9	3.2	.23
8	2.1	2.6	3.6	e6.6	8.5	28	45	5.2	18	1.4	2.6	.11
9	1.7	2.8	3.4	e6.5	8.0	24	38	5.1	12	2.3	2.2	.04
10	1.6	3.3	3.4	e7.7	8.9	18	33	5.9	9.1	2.0	1.9	.01
11	1.4	3.1	3.6	e7.1	9.0	15	29	6.0	7.8	1.4	1.7	.00
12	1.4	3.0	3.9	6.3	8.2	13	26	4.9	7.0	1.1	3.1	.00
13	1.4	2.9	3.8	6.6	11	14	23	4.7	6.6	.68	2.9	.00
14	1.4	3.7	4.0	5.8	15	12	22	4.1	8.9	.51	2.4	.00
15	1.4	5.3	4.3	5.6	19	16	18	4.0	9.5	.36	2.0	.00
16	1.3	4.5	5.0	5.9	20	52	17	12	8.4	.25	1.6	.00
17	1.4	3.8	22	5.5	257	36	16	19	6.5	.19	1.3	.00
18	1.5	3.5	35	5.9	143	25	17	11	5.2	.17	1.3	.00
19	e1.7	3.8	16	17	63	18	14	7.6	4.2	.13	1.9	.00
20	e1.8	3.8	11	136	42	18	12	6.0	3.7	.09	3.7	.00
21	1.8	3.8	e10	101	31	550	12	5.9	3.3	.05	2.0	.00
22	1.7	3.7	e8.3	51	26	265	11	8.3	3.0	.04	1.3	.00
23	1.7	3.9	e7.6	34	23	118	11	7.6	4.0	.02	.85	.00
24	1.9	3.1	e7.6	27	23	76	10	5.7	4.1	.04	1.2	.00
25	2.1	4.1	e7.0	21	24	58	17	5.0	3.7	.01	1.2	.00
26	2.2	8.1	e5.9	16	34	48	18	46	6.7	.43	.73	.00
27	2.7	7.3	e6.0	15	25	39	11	33	5.7	41	.69	.00
28	2.3	5.1	e6.4	13	19	33	9.6	13	4.1	33	.71	.00
29	e2.3	4.5	e6.6	12	---	142	8.7	9.4	2.7	20	.40	.00
30	e2.3	3.6	e5.8	12	---	1060	7.8	8.0	2.3	153	.39	.00
31	e2.3	---	e5.7	15	---	177	---	6.2	---	47	.28	---
TOTAL	65.3	110.7	219.5	574.8	888.9	3087	1781.1	289.9	440.5	318.37	88.05	2.24
MEAN	2.11	3.69	7.08	18.5	31.7	99.6	59.4	9.35	14.7	10.3	2.84	.075
MAX	4.0	8.1	35	136	257	1060	524	46	115	153	17	.48
MIN	1.3	2.2	3.2	4.7	8.0	12	7.8	4.0	2.3	.01	.28	.00
CFSM	.05	.08	.15	.40	.69	2.17	1.29	.20	.32	.22	.06	.00
IN.	.05	.09	.18	.47	.72	2.50	1.44	.23	.36	.26	.07	.00

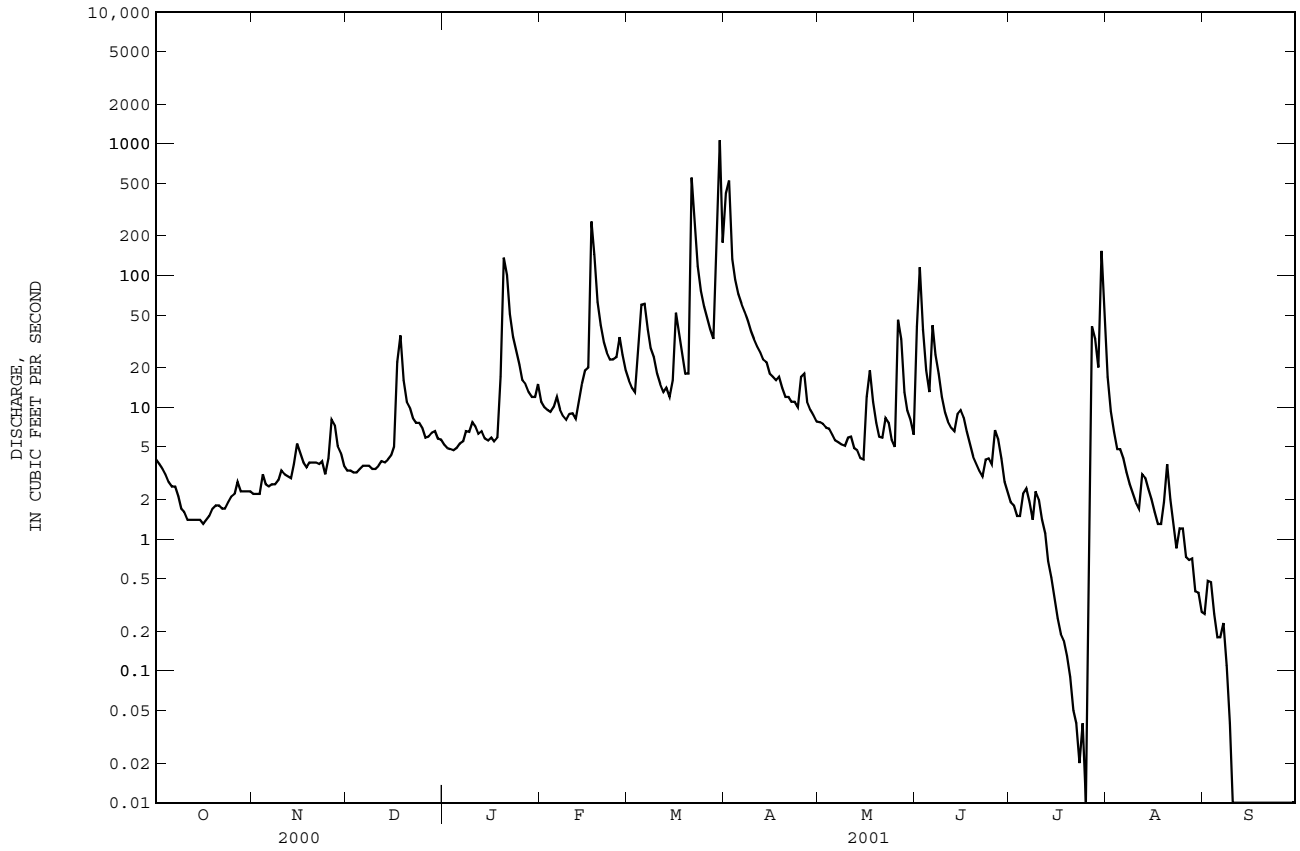
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	24.2	26.9	45.3	82.6	89.7	94.4	61.8	32.7	24.9	22.9	21.3	25.1
MAX	131	137	144	278	244	266	188	184	233	274	264	193
(WY)	1996	1973	1973	1978	1979	1975	1997	1978	1995	1975	1995	1996
MIN	.000	.64	4.77	6.15	19.7	23.1	8.63	4.30	1.80	.11	.026	.000
(WY)	1969	1999	1966	1981	1968	1976	1995	1995	1986	1966	1987	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	11000.8		7866.36			
ANNUAL MEAN	30.1		21.6		45.8	
HIGHEST ANNUAL MEAN					92.3	1975
LOWEST ANNUAL MEAN					15.2	1981
HIGHEST DAILY MEAN	346	Apr 18	1060	Mar 30	7400	Aug 28 1995
LOWEST DAILY MEAN	1.3	Oct 16	.00	Sep 11	.00	Jul 9 1966
ANNUAL SEVEN-DAY MINIMUM	1.4	Oct 11	.00	Sep 11	.00	Jul 9 1966
MAXIMUM PEAK FLOW			1920	Mar 30	NOT DETERMINED	
MAXIMUM PEAK STAGE			34.63	Mar 30	48.53*	Aug 27 1995
INSTANTANEOUS LOW FLOW			.00*	Jul 25	.00*	Jul 8 1966
ANNUAL RUNOFF (CFSM)	.65		.47		1.00	
ANNUAL RUNOFF (INCHES)	8.92		6.38		13.56	
10 PERCENT EXCEEDS	85		39		87	
50 PERCENT EXCEEDS	9.7		5.3		15	
90 PERCENT EXCEEDS	2.6		.26		.87	

e Estimated.
* See REMARKS.

02077200 HYCO CREEK NEAR LEASBURG, NC--Continued



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, 27.7°C, Aug. 10; minimum recorded, 0.0°C, several days during the year.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17.7	15.7	16.6	11.5	7.5	9.6	5.0	2.9	4.1	.4	.0	.2
2	17.9	15.2	16.6	11.5	7.4	9.5	4.5	3.4	4.0	.5	.0	.2
3	19.1	16.1	17.5	12.1	8.1	10.2	4.0	2.2	3.4	.3	.0	.1
4	20.3	17.5	18.8	13.1	10.2	11.8	2.2	.2	1.2	.3	.0	.1
5	20.9	17.9	19.4	13.7	11.2	12.6	2.0	.0	.9	.3	.0	.1
6	20.6	18.3	19.5	11.7	8.5	10.2	1.8	.2	1.0	.5	.0	.2
7	19.5	16.7	17.8	12.3	10.1	11.2	3.1	.9	1.9	.6	.0	.2
8	16.7	12.3	14.3	14.4	11.7	12.9	4.0	1.4	2.7	.6	.2	.3
9	12.3	9.5	10.8	15.2	13.4	14.3	3.6	1.7	2.7	1.1	.2	.5
10	11.6	8.3	9.8	15.6	12.9	14.7	2.8	1.9	2.3	1.0	.0	.4
11	11.8	8.4	10.0	12.9	10.6	11.7	4.6	2.5	3.4	1.8	.0	.8
12	12.3	8.8	10.5	11.1	8.6	9.9	6.2	4.3	5.4	4.1	1.7	3.1
13	13.0	9.3	11.1	10.8	8.1	9.5	4.3	2.3	3.2	4.1	2.2	3.2
14	13.6	9.9	11.7	12.0	9.5	10.7	4.5	3.1	3.6	4.3	2.6	3.4
15	14.1	10.7	12.4	9.5	7.3	8.4	4.6	2.7	3.6	6.6	4.1	5.2
16	15.2	11.8	13.4	7.8	5.9	7.0	4.2	3.5	3.9	6.2	4.4	5.3
17	16.2	13.4	14.7	9.8	7.8	8.6	7.7	4.2	6.5	5.1	3.2	4.4
18	17.8	15.5	16.4	8.2	5.9	6.6	5.3	3.8	4.4	5.1	4.6	4.9
19	16.5	13.6	15.2	6.2	5.2	5.8	3.8	2.6	3.2	6.0	5.1	5.4
20	15.0	12.1	13.7	6.5	4.7	5.5	2.6	.4	1.3	6.1	5.3	5.8
21	15.7	12.4	14.0	4.9	2.7	3.8	1.2	.0	.5	5.3	3.0	4.0
22	16.7	13.5	15.0	2.8	.7	1.9	2.1	.7	1.4	3.1	1.9	2.5
23	15.6	13.2	14.5	3.7	1.1	2.3	.7	.0	.2	2.8	.5	1.8
24	15.0	11.6	13.4	3.7	2.2	2.9	.6	.0	.2	3.9	1.1	2.5
25	16.9	14.4	15.4	4.9	3.3	4.0	.2	.0	.1	3.5	1.9	2.7
26	16.7	13.9	15.4	7.3	4.9	6.1	.3	.0	.1	2.8	.6	1.9
27	16.6	13.1	15.0	7.1	5.3	6.4	.5	.1	.2	4.6	2.3	3.3
28	16.9	13.6	15.2	7.0	5.2	6.2	.6	.0	.3	3.6	1.7	2.8
29	15.5	11.8	13.4	6.6	4.7	5.8	.4	.0	.2	5.7	3.0	4.3
30	12.8	9.1	11.1	6.6	4.8	5.8	.3	.0	.1	9.3	5.4	7.5
31	11.9	8.2	10.1	---	---	---	.2	.0	.1	9.5	7.1	8.3
MONTH	20.9	8.2	14.3	15.6	.7	8.2	7.7	.0	2.1	9.5	.0	2.8

02077200 HYCO CREEK NEAR LEASBURG, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	6.3	7.2	10.1	7.3	8.9	12.5	9.7	11.2	20.6	15.9	18.1
2	7.0	5.4	6.1	11.2	7.7	9.5	11.9	7.9	9.6	22.0	17.6	19.7
3	5.5	3.2	4.3	10.8	9.7	10.1	11.9	10.7	11.2	22.5	18.4	20.3
4	4.8	2.5	3.7	10.1	9.4	9.8	11.5	10.4	11.0	22.8	18.4	20.5
5	7.2	4.7	5.8	10.4	8.6	9.3	13.3	9.5	11.4	22.7	18.7	20.7
6	6.5	3.7	5.2	8.7	5.6	7.0	16.2	12.5	14.2	21.7	19.4	20.5
7	7.4	4.0	5.7	7.5	4.6	5.9	19.5	15.7	17.4	19.9	16.6	18.3
8	8.1	5.0	6.6	8.6	4.3	6.5	21.8	18.0	19.7	18.5	15.7	17.2
9	9.6	6.0	7.9	10.1	6.3	8.2	23.1	18.7	20.9	20.2	16.9	18.4
10	12.0	9.5	10.6	9.3	5.4	7.6	23.3	19.6	21.6	20.4	17.0	18.7
11	9.6	6.3	7.5	10.2	5.6	8.1	22.6	19.4	20.4	21.8	17.5	19.6
12	6.6	4.7	5.6	10.4	7.7	9.1	22.7	18.7	20.6	21.6	18.9	20.3
13	8.1	4.4	6.1	14.1	10.4	12.2	22.2	20.2	21.2	21.0	18.4	19.7
14	9.4	8.1	8.7	13.6	10.3	12.2	20.9	17.7	19.6	19.4	15.7	17.7
15	11.4	9.4	10.5	12.5	10.2	11.0	20.0	17.2	18.3	18.0	16.3	17.0
16	11.4	10.8	11.2	10.2	9.5	9.8	19.0	16.0	17.5	17.2	16.3	16.5
17	10.8	8.8	9.8	12.6	9.1	10.6	17.0	11.9	14.4	16.5	15.7	16.0
18	8.8	6.1	6.9	12.5	8.7	10.6	13.2	9.7	11.4	19.7	15.6	17.5
19	6.7	4.6	5.8	11.5	7.0	9.6	13.9	9.3	11.6	22.7	18.6	20.4
20	8.8	5.1	6.9	10.2	7.4	8.2	14.1	11.2	12.7	21.6	20.5	21.0
21	9.8	8.0	8.8	8.6	7.5	7.9	17.0	13.0	14.9	21.0	20.1	20.6
22	8.4	3.8	5.5	11.8	8.2	9.6	20.5	15.8	17.9	22.3	20.2	21.1
23	5.9	2.3	4.2	11.6	9.2	10.6	22.2	17.6	19.7	21.6	18.9	20.2
24	7.8	3.8	5.9	12.8	9.4	11.3	22.6	19.0	20.5	21.0	17.2	19.1
25	9.9	7.4	8.3	13.1	11.0	12.0	20.4	15.9	17.8	20.6	19.1	19.8
26	11.9	8.8	10.3	12.4	9.9	11.0	17.0	13.1	15.2	19.8	17.2	18.6
27	11.3	7.8	9.8	11.1	7.5	9.3	17.7	12.9	15.3	20.7	17.8	19.3
28	11.1	9.8	10.5	11.1	6.3	8.9	19.7	15.3	17.2	20.0	18.4	18.8
29	---	---	---	9.9	7.5	8.4	19.0	15.6	17.2	21.3	18.1	19.3
30	---	---	---	12.2	7.3	9.1	19.0	14.4	16.7	21.3	18.0	19.6
31	---	---	---	13.2	11.0	12.1	---	---	---	20.1	18.1	19.2
MONTH	12.0	2.3	7.3	14.1	4.3	9.5	23.3	7.9	16.3	22.8	15.6	19.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.3	18.3	18.7	26.0	24.0	24.9	22.8	21.7	22.1	24.1	23.0	23.5
2	20.7	18.9	19.6	25.5	23.4	24.5	23.3	20.3	21.7	24.1	22.4	23.1
3	21.5	19.3	20.4	23.4	21.8	22.7	23.7	20.5	22.0	23.0	21.9	22.5
4	21.8	19.6	20.6	24.8	22.5	23.3	24.2	21.9	23.0	23.7	21.8	22.5
5	24.0	20.7	22.2	25.8	22.5	23.9	25.4	22.2	23.6	24.7	21.5	22.7
6	23.5	21.8	22.7	25.5	22.9	24.1	25.5	22.8	24.1	23.8	20.8	22.0
7	23.2	22.1	22.7	24.1	21.1	22.7	26.0	22.9	24.5	22.9	20.2	21.3
8	22.7	21.9	22.3	23.8	22.3	23.0	27.1	24.0	25.5	22.7	19.4	20.7
9	22.7	20.4	21.6	25.2	22.3	23.6	27.0	24.1	25.6	21.8	19.2	20.4
10	23.4	20.0	21.5	26.4	22.9	24.6	27.7	25.0	26.3	23.7	20.9	21.9
11	22.8	20.4	21.6	27.0	24.0	25.2	27.3	25.6	26.3	23.2	20.2	21.6
12	23.9	21.1	22.5	25.5	22.4	24.0	26.8	24.6	25.7	21.5	17.7	19.4
13	24.5	22.2	23.1	24.8	22.6	23.3	26.1	24.8	25.4	20.9	16.9	18.8
14	24.5	22.6	23.3	24.5	20.7	22.4	26.1	24.2	25.2	19.1	16.9	18.1
15	23.5	22.3	22.9	23.8	20.1	21.9	25.4	23.2	24.4	18.1	14.6	16.0
16	25.1	22.3	23.5	24.6	20.0	22.0	25.1	22.7	23.9	17.2	13.3	15.1
17	25.5	22.1	23.8	25.2	20.5	22.5	24.9	23.5	24.2	17.1	13.2	15.1
18	25.0	21.8	23.4	24.8	22.0	23.2	25.4	24.0	24.6	17.9	14.2	15.9
19	24.5	21.4	23.1	25.1	22.8	23.6	25.2	24.0	24.6	18.5	15.0	16.7
20	25.4	21.9	23.6	25.4	21.8	23.1	25.5	23.4	24.4	19.7	17.5	18.5
21	25.6	22.5	24.1	25.7	20.2	22.2	24.3	21.8	23.1	20.8	18.0	19.2
22	26.1	23.0	24.4	25.8	19.3	21.8	23.6	21.0	22.3	19.9	17.0	18.4
23	24.5	23.0	23.7	25.7	20.2	22.4	24.5	21.0	22.6	19.8	16.7	18.2
24	24.3	22.0	23.1	26.9	22.2	24.0	24.8	22.6	23.5	20.0	18.5	19.2
25	23.8	21.7	22.8	26.4	22.8	24.2	24.0	21.6	22.8	19.3	15.4	17.5
26	24.9	21.7	23.1	24.6	22.8	23.5	24.4	21.0	22.5	16.0	12.5	14.1
27	25.6	22.5	24.0	24.0	22.6	23.1	25.5	22.0	23.4	15.9	11.9	13.6
28	26.2	23.4	24.8	22.8	20.7	21.7	25.5	22.5	23.8	14.8	12.1	13.5
29	26.6	23.4	25.0	20.9	20.1	20.5	25.9	23.1	24.3	14.9	11.3	13.0
30	26.2	23.6	24.9	21.3	20.5	20.8	25.1	23.3	23.9	14.1	11.2	12.5
31	---	---	---	22.3	20.8	21.5	24.9	22.6	23.6	---	---	---
MONTH	26.6	18.3	22.8	27.0	19.3	23.0	27.7	20.3	24.0	24.7	11.2	18.5
YEAR	27.7	.0	14.0									

02077280 HYCO LAKE AT DAM NEAR ROXBORO, NC

LOCATION.--Lat 36°30'42", long 79°02'50", 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 sea level. Satellite telemetry at station.

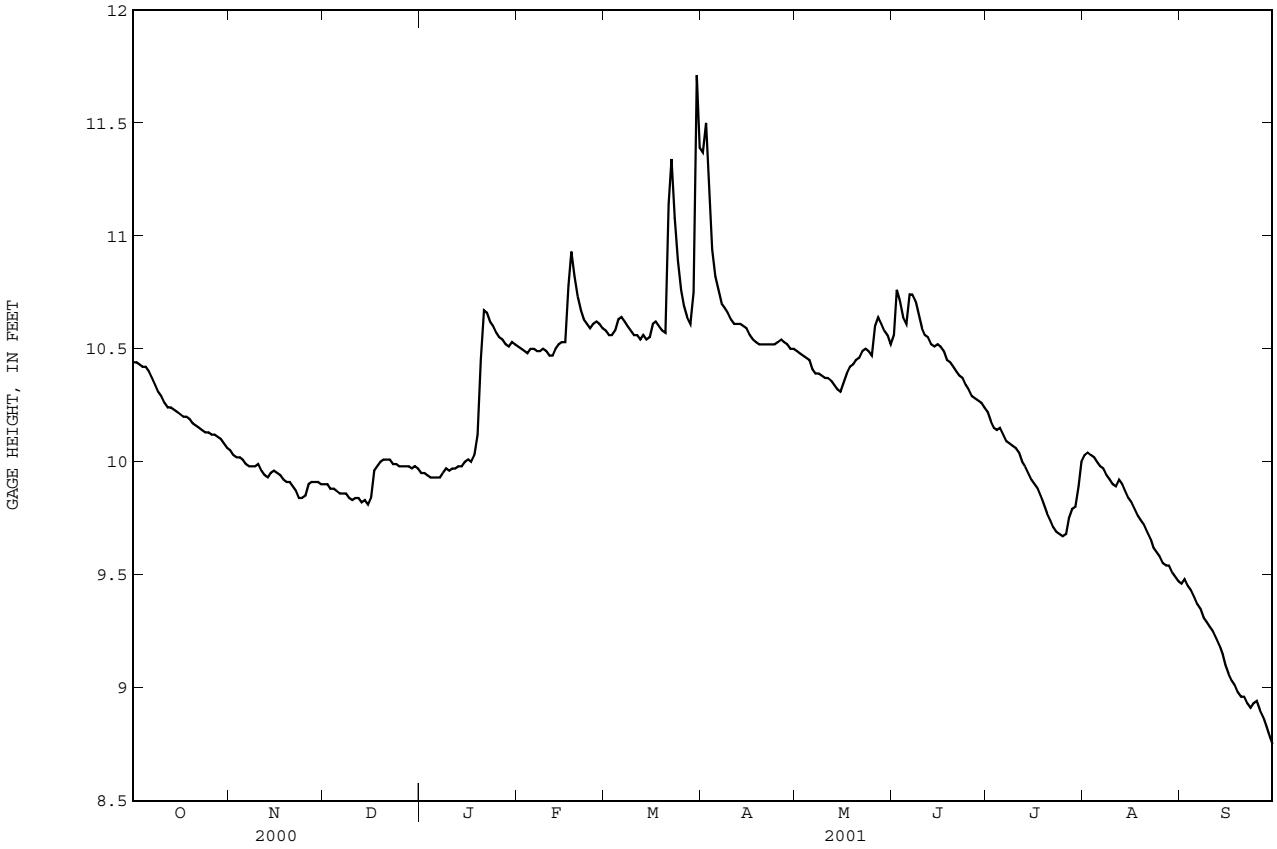
EXTREMES FOR PERIOD OF RECORD.--Maximum, 13.68 ft, Sept. 6, 1996; minimum, 8.07 ft, Oct. 13, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 11.79 ft, Mar. 30; minimum; 8.70 ft, Sept. 30.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.44	10.05	9.90	9.95	10.51	10.58	11.37	10.49	10.56	10.22	10.03	9.46
2	10.44	10.03	9.90	9.95	10.50	10.56	11.50	10.48	10.76	10.18	10.04	9.48
3	10.43	10.02	9.88	9.94	10.49	10.56	11.17	10.47	10.71	10.15	10.03	9.45
4	10.42	10.02	9.88	9.93	10.48	10.58	10.94	10.46	10.64	10.14	10.02	9.43
5	10.42	10.01	9.87	9.93	10.50	10.63	10.82	10.45	10.61	10.15	10.00	9.40
6	10.40	9.99	9.86	9.93	10.50	10.64	10.76	10.41	10.74	10.12	9.98	9.37
7	10.37	9.98	9.86	9.93	10.49	10.62	10.70	10.39	10.74	10.09	9.97	9.35
8	10.34	9.98	9.86	9.95	10.49	10.60	10.68	10.39	10.71	10.08	9.94	9.31
9	10.31	9.98	9.84	9.97	10.50	10.58	10.66	10.38	10.65	10.07	9.92	9.29
10	10.29	9.99	9.83	9.96	10.49	10.56	10.63	10.37	10.59	10.06	9.90	9.27
11	10.26	9.96	9.84	9.97	10.47	10.56	10.61	10.37	10.56	10.04	9.89	9.25
12	10.24	9.94	9.84	9.97	10.47	10.54	10.61	10.36	10.55	10.00	9.92	9.22
13	10.24	9.93	9.82	9.98	10.50	10.56	10.61	10.34	10.52	9.98	9.90	9.19
14	10.23	9.95	9.83	9.98	10.52	10.54	10.60	10.32	10.51	9.95	9.87	9.15
15	10.22	9.96	9.81	10.00	10.53	10.55	10.59	10.31	10.52	9.92	9.84	9.10
16	10.21	9.95	9.84	10.01	10.53	10.61	10.56	10.35	10.51	9.90	9.82	9.06
17	10.20	9.94	9.96	10.00	10.78	10.62	10.54	10.39	10.49	9.88	9.79	9.03
18	10.20	9.92	9.98	10.03	10.93	10.60	10.53	10.42	10.45	9.85	9.76	9.01
19	10.19	9.91	10.00	10.12	10.82	10.58	10.52	10.43	10.44	9.81	9.74	8.98
20	10.17	9.91	10.01	10.45	10.73	10.57	10.52	10.45	10.42	9.77	9.72	8.96
21	10.16	9.89	10.01	10.67	10.67	11.14	10.52	10.46	10.40	9.74	9.69	8.96
22	10.15	9.87	10.01	10.66	10.63	11.34	10.52	10.49	10.38	9.71	9.66	8.93
23	10.14	9.84	9.99	10.62	10.61	11.08	10.52	10.50	10.37	9.69	9.62	8.91
24	10.13	9.84	9.99	10.60	10.59	10.89	10.52	10.49	10.34	9.68	9.60	8.93
25	10.13	9.85	9.98	10.57	10.61	10.76	10.53	10.47	10.32	9.67	9.58	8.94
26	10.12	9.90	9.98	10.55	10.62	10.69	10.54	10.60	10.29	9.68	9.55	8.90
27	10.12	9.91	9.98	10.54	10.61	10.64	10.53	10.64	10.28	9.75	9.54	8.87
28	10.11	9.91	9.98	10.52	10.59	10.61	10.52	10.61	10.27	9.79	9.54	8.83
29	10.10	9.91	9.97	10.51	---	10.75	10.50	10.58	10.26	9.80	9.51	8.79
30	10.08	9.90	9.98	10.53	---	11.71	10.50	10.56	10.24	9.89	9.49	8.75
31	10.06	---	9.97	10.52	---	11.39	---	10.52	---	10.00	9.47	---
MEAN	10.24	9.94	9.92	10.20	10.58	10.73	10.67	10.45	10.49	9.93	9.78	9.12
MAX	10.44	10.05	10.01	10.67	10.93	11.71	11.50	10.64	10.76	10.22	10.04	9.48
MIN	10.06	9.84	9.81	9.93	10.47	10.54	10.50	10.31	10.24	9.67	9.47	8.75

02077280 HYCO LAKE AT DAM NEAR ROXBORO, NC--Continued



0207730290 AFTERBAY RESERVIOR AT DAM NEAR McGEHEES MILL, NC

LOCATION.--Lat 36°31'24", long 78°59'49", 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 mean sea level. Satellite telemetry at site.

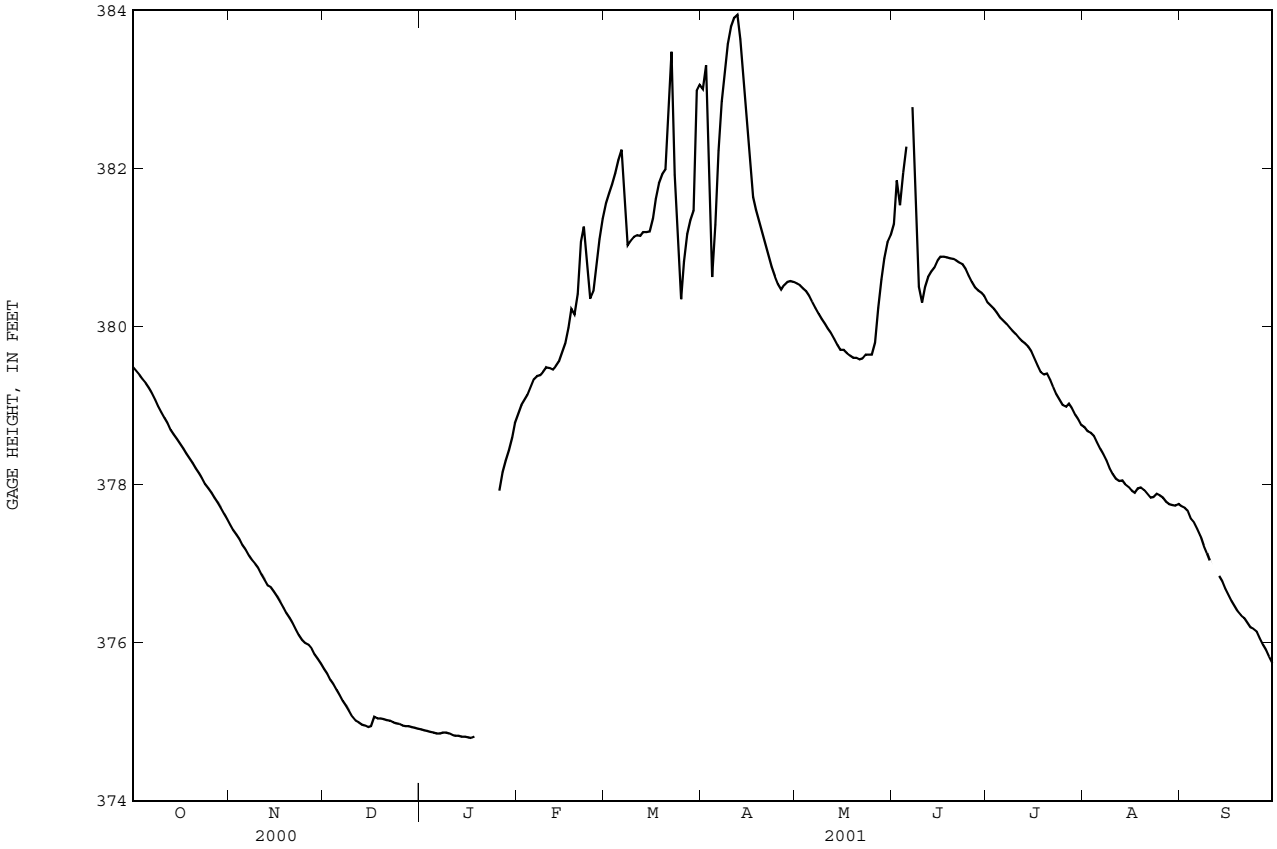
EXTREMES FOR PERIOD OF RECORD.--Maximum, 391.11 ft, Sept. 7, 1996; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 384.02 ft, Apr. 12; minimum, not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	379.48	377.49	375.66	374.90	378.89	381.55	383.00	380.54	381.29	380.30	378.72	377.72
2	379.43	377.42	375.60	374.89	379.00	381.68	383.30	380.52	381.84	380.26	378.67	377.70
3	379.38	377.36	375.53	374.88	379.07	381.79	381.82	380.48	381.53	380.22	378.65	377.66
4	379.33	377.30	375.47	374.87	379.13	381.93	380.62	380.44	381.94	380.17	378.61	377.56
5	379.28	377.23	375.40	374.86	379.23	382.10	381.28	380.38	382.27	380.11	378.53	377.51
6	379.22	377.17	375.33	374.85	379.33	382.23	382.22	380.31	---	380.07	378.45	377.44
7	379.15	377.10	375.26	374.85	379.37	381.61	382.84	380.23	382.77	380.03	378.38	377.35
8	379.07	377.04	375.20	374.86	379.38	381.02	383.25	380.16	381.72	379.98	378.30	377.23
9	378.99	376.99	375.13	374.86	379.42	381.08	383.57	380.09	380.50	379.94	378.20	377.13
10	378.91	376.94	375.06	374.85	379.48	381.13	383.79	380.03	380.30	379.90	378.13	377.04
11	378.84	376.86	375.01	374.83	379.47	381.15	383.90	379.97	380.49	379.85	378.07	---
12	378.77	376.79	374.99	374.82	379.45	381.14	383.94	379.91	380.62	379.81	378.04	---
13	378.69	376.72	374.96	374.82	379.49	381.19	383.63	379.84	380.69	379.78	378.05	376.84
14	378.63	376.70	374.95	374.81	379.55	381.19	383.19	379.76	380.74	379.74	378.00	376.77
15	378.57	376.64	374.93	374.81	379.67	381.20	382.69	379.70	380.83	379.68	377.97	376.68
16	378.51	376.58	374.94	374.80	379.78	381.36	382.16	379.70	380.88	379.59	377.92	376.60
17	378.45	376.51	375.06	374.79	379.98	381.61	381.63	379.66	380.88	379.50	377.89	376.52
18	378.39	376.44	375.04	374.81	380.22	381.81	381.47	379.63	380.87	379.42	377.95	376.45
19	378.33	376.37	375.04	---	380.15	381.92	381.31	379.60	380.86	379.39	377.96	376.39
20	378.27	376.31	375.03	---	380.41	381.98	381.16	379.60	380.85	379.40	377.93	376.34
21	378.20	376.24	375.02	---	381.07	382.72	381.02	379.58	380.83	379.32	377.88	376.31
22	378.14	376.16	375.01	---	381.26	383.47	380.89	379.59	380.80	379.23	377.83	376.25
23	378.08	376.09	374.99	---	380.84	381.91	380.75	379.64	380.78	379.14	377.84	376.19
24	378.00	376.03	374.98	---	380.35	381.00	380.63	379.64	380.72	379.07	377.88	376.17
25	377.95	375.99	374.97	---	380.44	380.34	380.53	379.64	380.64	379.00	377.86	376.14
26	377.89	375.97	374.95	377.92	380.79	380.82	380.46	379.79	380.56	378.98	377.83	376.05
27	377.83	375.92	374.94	378.15	381.10	381.16	380.52	380.23	380.49	379.02	377.78	375.97
28	377.77	375.85	374.94	378.30	381.36	381.34	380.56	380.59	380.45	378.96	377.75	375.90
29	377.70	375.79	374.93	378.43	---	381.46	380.57	380.86	380.42	378.88	377.74	375.82
30	377.63	375.73	374.92	378.59	---	382.98	380.56	381.06	380.38	378.82	377.73	375.74
31	377.56	---	374.91	378.78	---	383.05	---	381.15	---	378.75	377.75	---
MEAN	378.53	376.59	375.10	---	379.92	381.64	381.91	380.07	---	379.56	378.07	---
MAX	379.48	377.49	375.66	---	381.36	383.47	383.94	381.15	---	380.30	378.72	---
MIN	377.56	375.73	374.91	---	378.89	380.34	380.46	379.58	---	378.75	377.73	---

0207730290 AFTERBAY RESERVIOR AT DAM NEAR McGEHEES MILL, NC--Continued



02077303 HYCO RIVER BELOW AFTERBAY DAM NEAR MCGEHEES MILL, NC

LOCATION.--Lat 36°31'24", long 78°59'48", 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 sea level (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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	16	13	e2.5	e3.4	31	1550	19	20	13	14	11
2	17	16	13	e2.5	e3.4	31	2060	19	224	13	14	11
3	17	16	13	e2.5	e3.4	31	1750	19	141	13	14	25
4	17	16	13	e2.5	e3.4	49	698	19	12	13	14	25
5	17	16	13	e2.5	e3.4	73	76	19	e12	13	14	24
6	17	15	13	e2.5	e3.6	184	77	19	e500	13	14	25
7	17	15	13	e2.5	e3.8	255	79	20	e445	15	13	25
8	16	16	e13	e2.5	e4.0	137	79	19	414	16	13	25
9	16	16	e13	e2.5	e4.0	66	81	19	307	16	13	24
10	16	16	e13	e2.5	e4.0	66	81	19	16	16	12	21
11	16	15	e13	e2.5	e4.0	66	82	19	15	15	12	18
12	16	15	e13	e2.5	e4.0	61	122	19	14	15	12	19
13	17	15	e13	e2.5	e9.0	57	187	19	14	15	12	19
14	17	15	e12	e2.5	e16	56	188	19	14	15	12	19
15	16	14	e12	e2.5	e16	56	187	18	14	15	13	19
16	17	14	e12	e2.5	e16	56	185	19	13	15	12	18
17	17	14	e12	e2.5	e22	57	126	16	14	15	12	18
18	17	14	e12	e2.5	e30	57	79	12	14	15	12	18
19	17	14	e2.6	e2.6	e29	57	79	11	13	15	12	18
20	16	14	e2.5	e2.6	e28	57	78	11	13	15	12	17
21	17	14	e2.5	e2.7	28	956	78	11	13	15	12	17
22	17	13	e2.5	e2.8	148	1690	78	11	13	15	12	17
23	16	14	e2.5	e2.8	185	1490	78	11	13	15	12	17
24	16	13	e2.5	e3.2	132	626	78	11	13	15	12	17
25	17	13	e2.5	e3.4	30	263	78	11	13	15	12	17
26	16	14	e2.5	e3.4	30	73	58	11	13	15	12	18
27	17	14	e2.5	e3.4	30	74	19	11	13	15	11	18
28	17	14	e2.5	e3.4	30	75	18	11	13	15	11	18
29	16	13	e2.5	e3.4	---	405	19	11	13	14	11	18
30	16	14	e2.5	e3.4	---	2190	19	11	13	14	11	18
31	16	---	e2.5	e3.4	---	2130	---	11	---	14	11	---
TOTAL	513	438	261.6	85.5	823.4	11475	8367	475	2359	453	383	574
MEAN	16.5	14.6	8.44	2.76	29.4	370	279	15.3	78.6	14.6	12.4	19.1
MAX	17	16	13	3.4	185	2190	2060	20	500	16	14	25
MIN	16	13	2.5	2.5	3.4	31	18	11	12	13	11	11

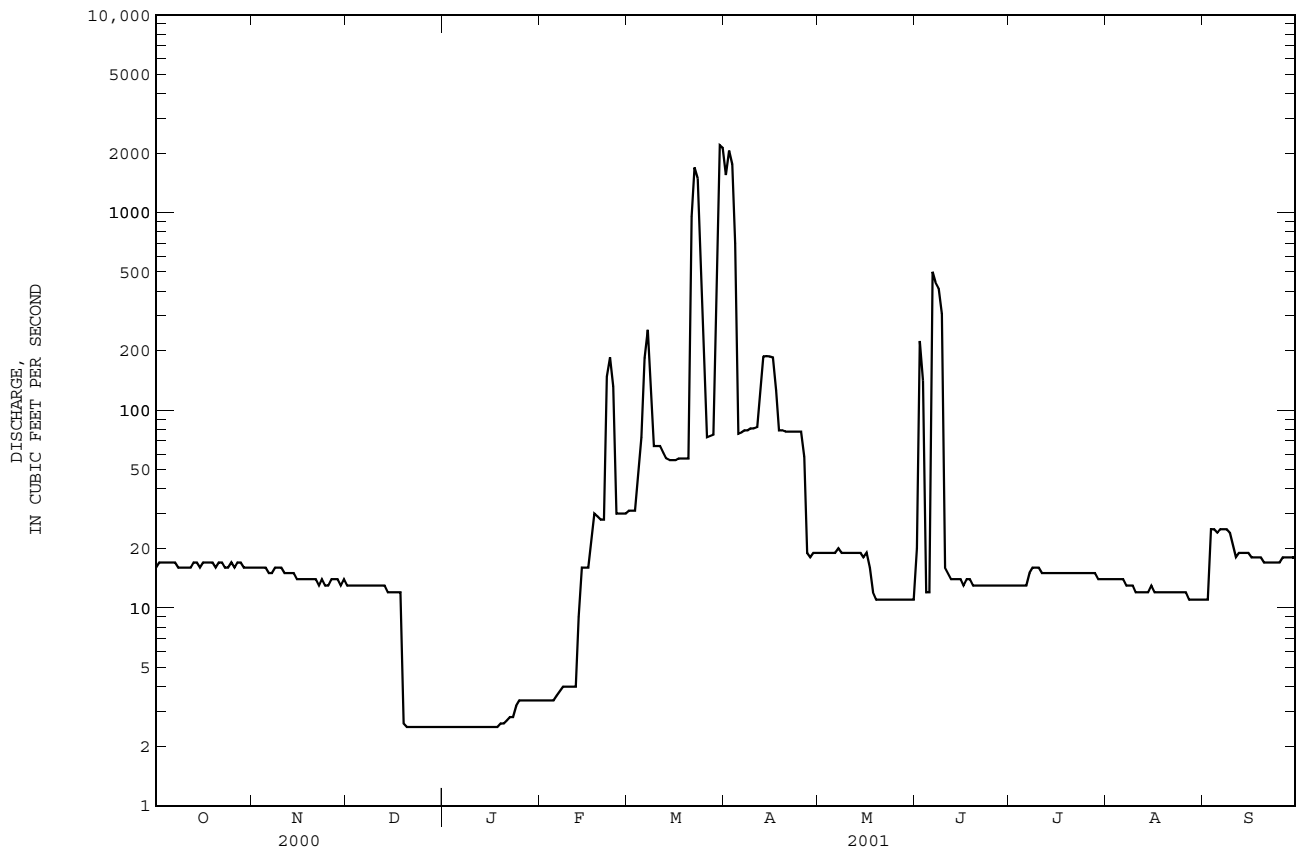
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1974 - 2001, BY WATER YEAR (WY)

MEAN	56.0	56.6	110	364	325	417	245	117	77.6	95.8	66.1	124
MAX	351	334	361	1201	926	1165	692	864	456	1058	294	675
(WY)	1996	1986	1983	1978	1979	1993	1983	1978	1982	1975	1982	1974
MIN	3.47	2.40	2.19	2.76	11.0	18.3	12.9	7.90	3.96	9.60	1.08	1.55
(WY)	1999	1998	1998	2001	1981	1981	1985	1981	1974	1985	1999	1977

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1974 - 2001	
ANNUAL TOTAL	35049.6		26207.5			
ANNUAL MEAN	95.8		71.8		170	
HIGHEST ANNUAL MEAN					392	1975
LOWEST ANNUAL MEAN					17.9	1981
HIGHEST DAILY MEAN	1440	Apr 19	2190	Mar 30	9280	Jul 14 1975
LOWEST DAILY MEAN	2.5	Dec 20	2.5	Dec 20	.27	Nov 2 1997
ANNUAL SEVEN-DAY MINIMUM	2.5	Dec 20	2.5	Dec 20	.45	Aug 3 1999
MAXIMUM PEAK FLOW			2520	Mar 30	11300	Jul 14 1975
MAXIMUM PEAK STAGE			14.19	Mar 30	24.40	Jul 14 1975
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00	Jun 26 1980
10 PERCENT EXCEEDS	285		79		381	
50 PERCENT EXCEEDS	17		15		32	
90 PERCENT EXCEEDS	14		3.0		11	

e Estimated.

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



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, 1.1°C, Jan. 1, 2, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 26.3°C, Aug. 27; minimum recorded, 4.8°C, Feb. 2, 3, 4.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---	8.7	5.0	6.5
31	---	---	---	---	---	---	---	---	---	9.9	5.2	6.9
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

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

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.1	5.0	6.1	10.3	9.2	9.8	16.0	15.6	15.8	18.8	14.4	16.8
2	7.8	4.8	5.7	11.0	9.9	10.5	16.3	15.7	15.9	18.9	15.1	17.2
3	9.0	4.8	5.7	10.7	10.2	10.5	16.1	15.8	15.9	18.8	15.2	17.3
4	6.4	4.8	5.3	10.6	10.1	10.3	16.0	14.0	15.6	19.1	15.3	17.3
5	9.1	5.2	6.2	10.6	10.0	10.3	15.4	13.4	14.6	18.9	15.2	17.5
6	9.8	5.0	6.5	10.0	9.5	9.8	16.5	14.3	15.7	18.2	15.7	17.4
7	7.6	5.8	6.5	9.8	9.3	9.5	17.1	16.3	16.7	18.8	13.1	16.3
8	7.6	5.9	6.5	9.7	9.3	9.4	16.7	15.7	16.2	18.7	13.6	16.6
9	8.3	6.2	7.3	10.3	9.3	9.8	16.8	15.8	16.4	18.9	16.7	17.8
10	9.1	7.9	8.3	10.0	9.4	9.7	16.5	15.7	16.3	18.9	15.0	17.3
11	8.7	7.3	7.8	10.8	9.3	10.0	16.5	15.7	16.1	19.6	15.7	18.0
12	7.4	7.0	7.2	10.3	9.9	10.1	19.2	16.2	17.3	19.5	16.7	18.3
13	8.5	6.8	7.6	11.8	10.3	11.1	18.2	17.1	17.6	19.0	15.1	17.4
14	8.6	7.8	8.0	11.7	11.0	11.4	18.0	16.7	17.4	19.1	13.6	16.7
15	9.2	8.6	8.9	11.3	10.9	11.1	19.2	16.8	17.9	18.2	15.5	16.7
16	8.9	8.5	8.8	11.1	10.9	10.9	20.2	17.9	19.3	17.9	15.7	16.8
17	9.3	8.4	8.9	11.7	10.9	11.2	17.9	16.0	17.0	17.5	14.9	16.2
18	8.9	8.6	8.7	11.4	10.9	11.2	17.1	15.3	16.2	19.5	16.2	17.9
19	9.1	8.4	8.8	11.0	10.4	10.7	17.2	14.4	16.0	19.8	17.0	18.6
20	---	---	---	10.6	9.2	10.3	17.1	14.7	16.2	19.2	18.0	18.6
21	---	---	---	10.9	9.1	10.5	17.8	16.4	17.2	19.3	17.9	18.6
22	10.1	9.5	9.8	12.1	10.7	11.4	18.3	17.3	17.8	20.2	18.2	19.2
23	10.0	9.1	9.5	13.5	12.1	12.8	18.7	17.1	17.9	19.7	15.3	17.9
24	9.5	9.0	9.3	14.6	13.3	13.9	19.6	17.8	18.7	19.6	14.9	17.7
25	10.1	9.0	9.4	14.2	11.9	13.5	18.2	15.5	16.9	19.6	17.6	18.6
26	10.4	9.6	10.0	13.8	11.7	12.8	17.8	12.7	15.9	19.9	17.0	18.4
27	10.3	9.4	9.9	13.3	11.0	12.1	18.1	11.8	15.3	19.8	14.8	17.9
28	10.3	9.4	10.0	13.2	10.7	12.0	18.4	14.4	16.3	18.8	16.9	18.0
29	---	---	---	13.3	10.7	12.3	17.9	12.4	15.6	20.3	17.5	18.8
30	---	---	---	14.2	13.0	13.4	18.3	12.2	15.8	20.2	15.8	18.3
31	---	---	---	15.8	14.2	15.0	---	---	---	19.7	15.6	17.9
MONTH	---	---	---	15.8	9.1	11.2	20.2	11.8	16.6	20.3	13.1	17.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.5	17.2	18.5	23.3	21.8	22.5	24.0	22.2	23.0	25.7	24.7	25.4
2	23.5	17.5	20.5	22.9	20.0	22.0	24.1	21.6	22.9	25.5	24.7	25.0
3	22.8	18.8	21.0	22.1	19.8	21.1	24.4	21.7	23.2	25.7	25.2	25.6
4	19.8	18.1	19.0	23.3	21.3	22.2	24.6	22.9	23.7	26.0	25.5	25.7
5	21.1	18.4	19.8	23.7	21.6	22.6	24.6	22.9	23.9	26.0	25.3	25.7
6	24.0	19.5	21.1	23.1	20.7	22.1	24.9	22.9	24.0	25.6	24.9	25.3
7	25.3	23.6	24.4	23.0	19.5	21.5	25.4	23.2	24.3	25.7	24.8	25.3
8	24.9	24.2	24.5	23.3	22.0	22.6	25.3	23.8	24.6	25.7	24.8	25.3
9	24.9	19.7	23.8	24.2	21.9	23.2	25.3	23.8	24.6	25.6	24.9	25.3
10	20.9	18.6	19.6	24.1	22.0	23.2	25.6	24.3	24.9	26.2	25.3	25.6
11	21.4	18.3	19.7	24.5	22.1	23.4	25.6	24.5	24.9	25.9	24.5	25.2
12	22.2	19.2	20.8	23.7	20.7	22.5	25.7	24.3	24.9	25.6	24.1	24.7
13	21.8	20.0	20.9	23.7	21.9	22.6	25.9	24.6	25.1	25.6	23.9	24.7
14	22.3	20.0	20.9	23.9	20.6	22.4	25.4	24.4	24.9	24.8	23.4	24.2
15	22.0	20.2	20.8	23.7	20.7	22.4	25.4	24.0	24.6	24.5	22.8	23.4
16	22.6	20.0	21.2	23.8	20.9	22.6	25.5	24.0	24.8	24.0	22.3	23.0
17	22.3	19.0	20.9	24.3	21.3	23.1	26.0	24.7	25.4	23.9	22.1	22.8
18	22.3	19.0	20.8	24.1	23.0	23.7	25.8	25.1	25.5	23.9	22.0	22.8
19	22.4	19.0	20.9	24.0	22.9	23.6	25.8	24.7	25.3	23.9	22.2	22.9
20	22.5	19.7	21.1	24.2	22.0	23.2	25.8	24.6	25.1	24.1	22.9	23.3
21	22.7	19.7	21.1	24.0	20.7	22.5	25.4	24.0	24.6	24.2	23.0	23.4
22	22.8	19.8	21.2	24.1	20.9	22.6	25.3	23.9	24.6	24.0	22.6	23.3
23	22.1	20.3	21.0	24.5	22.2	23.4	25.9	24.0	24.9	24.3	22.7	23.4
24	22.1	19.8	20.8	24.9	23.5	24.2	25.9	24.6	25.2	23.8	22.4	23.1
25	22.1	19.8	21.0	25.1	24.0	24.6	25.7	24.2	24.8	23.9	22.1	22.7
26	22.6	20.2	21.4	25.0	23.4	24.3	25.7	24.1	24.9	23.3	21.5	22.2
27	23.0	20.6	21.7	24.2	22.5	23.4	26.3	24.7	25.3	23.1	21.3	22.0
28	22.9	20.9	21.9	23.1	22.2	22.6	26.1	24.9	25.5	22.7	21.1	21.7
29	23.1	20.8	22.0	22.9	21.9	22.3	26.1	25.1	25.5	22.0	20.5	21.1
30	23.3	21.3	22.3	23.4	22.1	22.7	26.1	25.1	25.4	21.7	19.9	20.6
31	---	---	---	24.0	22.0	23.0	26.1	25.1	25.6	---	---	---
MONTH	25.3	17.2	21.2	25.1	19.5	22.8	26.3	21.6	24.7	26.2	19.9	23.8

02077670 MAYO CREEK NEAR BETHEL HILL, NC

LOCATION.--Lat 36°32'26", long 78°52'21" 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.

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

REMARKS.--Records fair except those for estimated daily discharges, which are 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. Minimum discharge for the current water year also occurred Sept. 24.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	5.5	3.5	3.2	3.2	3.2	558	11	45	3.6	2.3	2.3
2	3.2	5.4	3.5	3.2	3.2	3.2	593	9.6	70	2.7	2.3	2.3
3	3.1	5.1	3.5	3.2	3.2	3.2	509	8.3	63	2.4	2.3	2.1
4	3.3	5.2	3.4	3.2	3.2	3.3	415	7.0	55	2.4	2.6	2.1
5	3.7	5.2	3.2	3.2	3.2	3.5	337	5.7	54	2.4	2.6	2.2
6	3.5	5.1	3.2	3.1	3.2	3.3	277	4.1	108	2.4	2.6	2.0
7	3.6	5.1	3.1	3.1	3.3	3.2	222	3.5	81	2.4	2.6	2.0
8	3.6	5.2	3.0	3.1	3.4	3.2	175	3.3	70	2.4	2.6	1.8
9	3.8	5.3	2.9	3.1	3.4	3.1	141	3.2	61	2.4	2.6	1.7
10	3.8	5.2	3.0	3.1	3.5	3.1	115	3.1	53	2.4	2.6	1.8
11	4.0	5.3	3.1	3.1	3.5	3.1	97	2.9	46	2.4	2.9	1.8
12	4.0	5.1	3.1	3.1	3.4	3.1	86	3.0	40	2.3	2.7	1.7
13	3.9	5.0	3.1	3.1	3.7	3.1	77	3.2	36	2.3	2.7	1.6
14	3.7	5.2	3.4	2.9	3.3	3.1	67	3.1	42	2.3	2.7	1.5
15	3.4	5.1	3.1	2.9	3.1	3.5	61	3.1	44	2.3	e2.7	1.5
16	3.3	5.2	3.3	2.9	3.1	3.6	51	3.4	46	2.4	e2.7	1.4
17	3.1	4.8	5.1	2.9	4.9	3.6	44	4.7	40	2.5	e3.8	1.2
18	3.8	4.7	3.3	3.0	3.3	3.8	38	5.9	33	2.5	4.3	1.2
19	4.4	4.4	3.4	3.7	3.1	3.9	33	8.9	e28	2.5	4.1	1.1
20	4.6	4.1	3.3	6.0	3.1	5.5	30	13	e23	2.5	4.3	1.2
21	4.8	4.0	3.2	3.3	3.1	192	27	13	19	2.5	3.4	1.3
22	4.9	4.0	3.2	3.0	3.1	377	24	19	19	2.5	3.1	1.2
23	4.9	4.0	3.0	2.9	3.2	345	22	17	21	2.5	3.8	1.1
24	4.8	4.0	3.0	3.0	3.3	290	21	15	16	2.4	3.4	1.1
25	5.6	4.3	3.0	2.9	3.4	239	22	14	13	2.3	3.0	1.1
26	5.2	3.9	3.2	2.9	3.4	191	20	28	10	2.5	e2.7	1.0
27	5.1	3.7	3.2	2.9	3.2	153	19	32	8.1	4.0	e2.4	1.1
28	4.9	3.5	3.2	2.9	3.2	125	16	28	6.1	2.4	e2.0	1.1
29	5.2	3.6	3.2	3.0	---	179	14	27	4.8	2.4	e2.0	1.1
30	4.6	3.5	3.2	3.3	---	540	12	25	4.1	2.4	2.1	1.1
31	e5.3	---	3.2	3.4	---	521	---	21	---	2.3	2.2	---
TOTAL	128.3	139.7	101.1	98.6	93.2	3220.6	4123	349.0	1159.1	77.7	88.1	45.7
MEAN	4.14	4.66	3.26	3.18	3.33	104	137	11.3	38.6	2.51	2.84	1.52
MAX	5.6	5.5	5.1	6.0	4.9	540	593	32	108	4.0	4.3	2.3
MIN	3.1	3.5	2.9	2.9	3.1	3.1	12	2.9	4.1	2.3	2.0	1.0

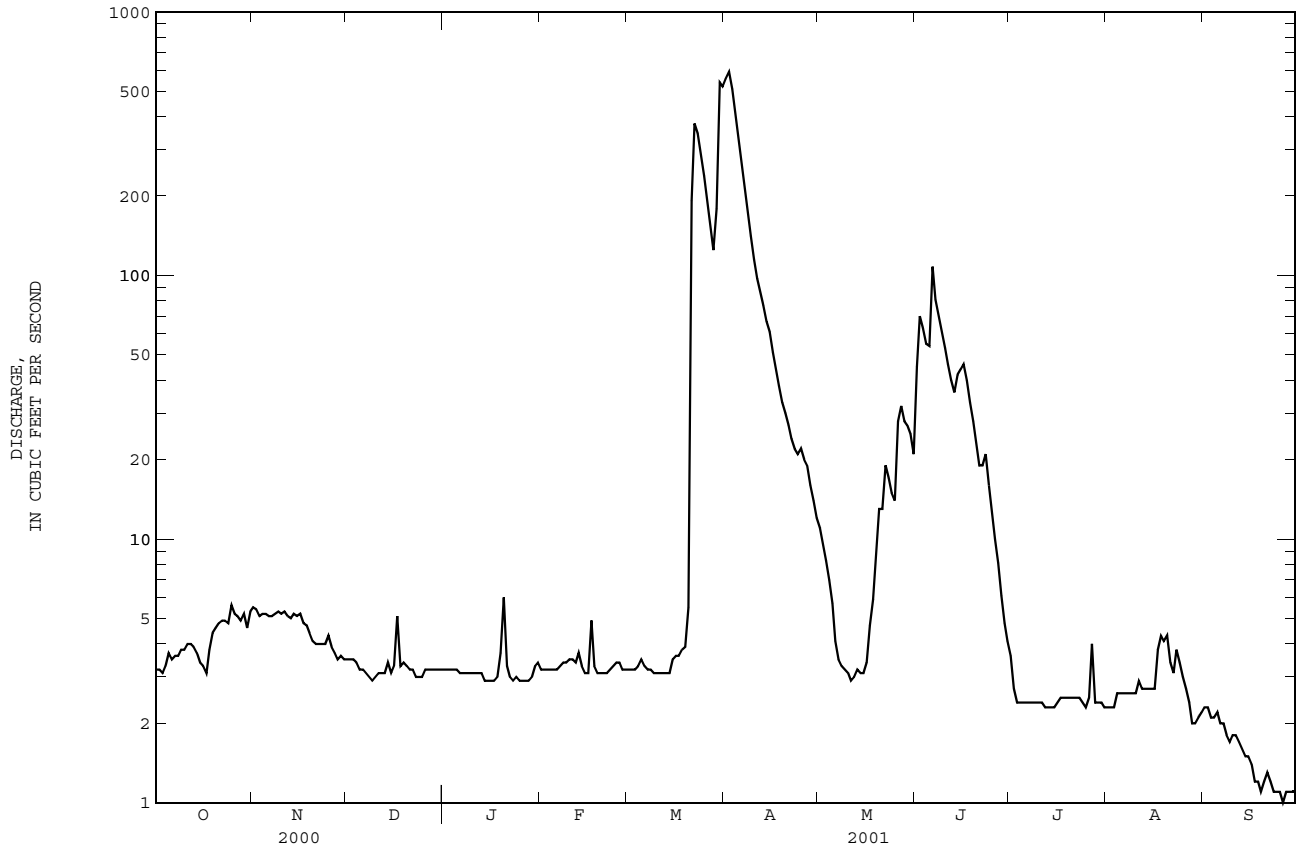
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	11.9	14.9	21.2	64.9	72.0	100	72.7	38.1	20.6	17.3	11.2	26.4
MAX	62.2	76.0	80.5	254	301	260	214	210	95.7	118	56.1	350
(WY)	1990	1980	1997	1978	1998	1998	1993	1978	2000	1995	1984	1996
MIN	.011	.011	.016	.003	.28	.14	.20	.12	.075	.24	.038	.000
(WY)	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1981	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	14100.2		9624.1			
ANNUAL MEAN	38.5		26.4		39.2	
HIGHEST ANNUAL MEAN					87.8	1978
LOWEST ANNUAL MEAN					.11	1981
HIGHEST DAILY MEAN	334	Jun 20	593	Apr 2	2260	Sep 7 1996
LOWEST DAILY MEAN	1.2	Aug 16	1.0	Sep 26	.00	Jul 31 1977
ANNUAL SEVEN-DAY MINIMUM	1.3	Aug 15	1.1	Sep 23	.00	Jul 31 1977
MAXIMUM PEAK FLOW			621	Apr 2	3950	Apr 26 1978
MAXIMUM PEAK STAGE			5.58	Apr 2	10.83	Apr 26 1978
INSTANTANEOUS LOW FLOW			.96*	Sep 23	.00*	Aug 1 1977
10 PERCENT EXCEEDS	129		48		100	
50 PERCENT EXCEEDS	15		3.4		7.5	
90 PERCENT EXCEEDS	2.1		2.3		.71	

e Estimated.
* See REMARKS.

02077670 MAYO CREEK NEAR BETHEL HILL, NC--Continued



02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC

LOCATION.--Lat 36°27'37", long 77°38'04", 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 sea level. 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 good 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. Maximum discharge for current water year also occurred July 13.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2900	3550	4840	2140	3890	4290	13300	4960	7690	3650	3310	2390
2	3330	6350	2060	3750	2310	3220	15700	4860	7980	2720	3520	2240
3	2960	4000	2060	7020	4460	1950	18200	4890	8500	3710	4490	2260
4	2570	3700	2060	4540	2800	1960	18200	4900	8820	5180	2890	2250
5	3480	2480	2060	4170	2840	1960	18200	4940	9590	5790	6880	2930
6	2540	2590	3780	2000	2890	8880	18200	4960	9900	5350	4840	3150
7	4250	3250	2590	1970	1970	2820	18300	4980	9540	2620	7090	4570
8	2550	3350	3820	1970	3080	4590	18300	4970	9510	2550	5400	2440
9	3380	3890	5980	1960	3290	3070	18300	4700	9540	10400	2920	3420
10	3960	2360	2200	1950	1970	2020	18200	4050	9590	10700	3640	4480
11	4930	2450	3980	2450	3190	1980	18200	3890	9620	10500	3350	7560
12	3620	2460	2390	2410	5460	6470	17200	4000	9560	10800	2850	5760
13	2450	2400	3160	2900	4450	3760	14700	3950	9520	10700	3340	4690
14	2600	2410	2070	2040	2320	2920	13300	3970	9460	2630	2920	3220
15	2880	2550	2060	2010	2350	5450	10600	3970	9550	2670	2980	2710
16	2450	3760	2070	2840	2430	3640	9980	3970	6720	2690	3700	2740
17	2630	2710	2300	4070	2770	1970	9190	3950	3120	3790	3380	2730
18	2610	4740	2080	2520	2890	1950	7910	3890	6240	2690	2940	3160
19	3480	3620	3030	2300	3640	3000	7890	3890	2590	3630	3690	4130
20	2840	5210	6500	1990	2410	5470	7980	3890	3890	2800	3360	4280
21	2440	2410	5210	1960	1960	e4060	7970	3910	6060	2880	3240	3240
22	2440	2190	4180	1950	10100	6930	7990	3890	5580	4650	2720	2210
23	4240	2200	2030	4010	5380	4510	7930	4240	4320	5980	2670	2130
24	4550	2810	2040	2000	1960	10600	7970	5020	4250	4400	4340	6520
25	2700	3300	2020	1980	2750	8160	7990	5020	4850	5820	2710	6820
26	2380	2160	3010	6530	2000	7620	7630	5020	7720	2870	3080	2900
27	2380	2880	3320	3920	3730	12700	7020	5010	6150	2930	2610	2420
28	2370	2180	3600	5410	2870	12600	6400	5000	5480	2880	2580	2150
29	2370	2170	2750	3840	---	6010	5870	5220	4770	2910	3610	2160
30	3960	2150	2160	4210	---	12700	5380	6090	4890	2870	4680	2160
31	3520	---	2150	2850	---	4060	---	7290	---	2890	3910	---
TOTAL	95760	92280	93560	95660	92160	161320	364000	143290	215000	146650	113640	103820
MEAN	3089	3076	3018	3086	3291	5204	12130	4622	7167	4731	3666	3461
MAX	4930	6350	6500	7020	10100	12700	18300	7290	9900	10800	7090	7560
MIN	2370	2150	2020	1950	1960	1950	5380	3890	2590	2550	2580	2130
†	-346	-280	+80	+270	+278	+61	-112	+29	-117	-287	-346	-334

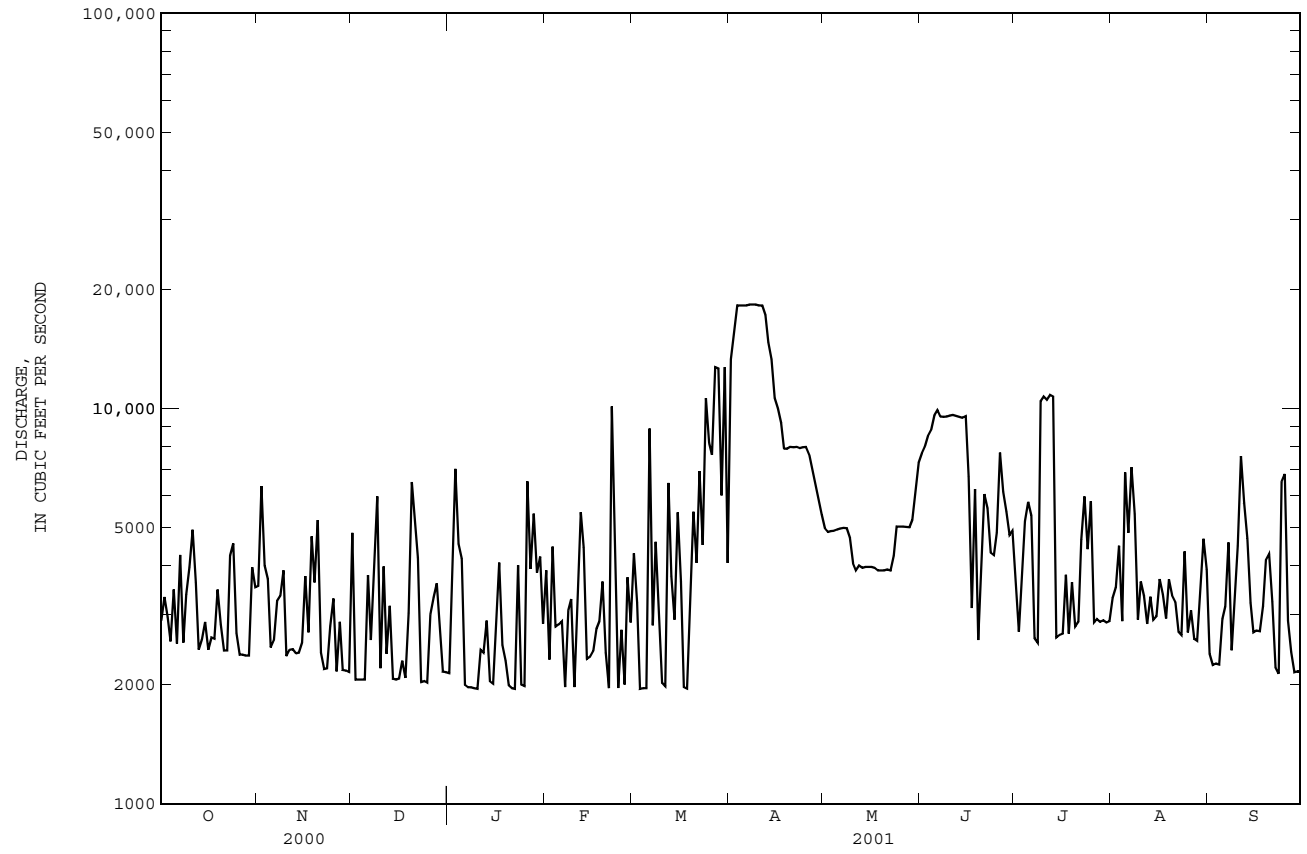
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001,* BY WATER YEAR (WY)

MEAN	5699	6281	7257	9798	10630	10900	11300	10430	7497	5879	5127	5363
MAX	20360	17690	18380	17850	26800	27350	32660	31750	15260	20560	9755	25970
(WY)	1980	1986	1973	1991	1998	1998	1993	1978	1982	1972	1975	1996
MIN	2031	1987	2566	3086	2613	2259	2527	3974	2365	2581	2519	2186
(WY)	1971	1987	1999	2001	1981	1981	1985	1981	1977	1970	1993	1968

02080500 ROANOKE RIVER AT ROANOKE RAPIDS, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001*	
ANNUAL TOTAL	2089920		1717140			
ANNUAL MEAN	5710		4704	‡4599	7865	(UNADJUSTED)
HIGHEST ANNUAL MEAN					12920	1973
LOWEST ANNUAL MEAN					3117	1981
HIGHEST DAILY MEAN	18600	Apr 28	18300	Apr 7	36000	Sep 11 1996
LOWEST DAILY MEAN	1960	Mar 8	1950	Jan 10	818	Nov 15 1970
ANNUAL SEVEN-DAY MINIMUM	2300	Dec 12	2100	Jan 6	989	Nov 5 1986
MAXIMUM PEAK FLOW			19000*	Jun 26	37700	Apr 16 1993
MAXIMUM PEAK STAGE			8.59	Jun 26	11.87	Apr 16 1993
INSTANTANEOUS LOW FLOW			1780	Jan 3	760	Nov 23 1970
10 PERCENT EXCEEDS	9110		9480		18800	
50 PERCENT EXCEEDS	4720		3640		6050	
90 PERCENT EXCEEDS	2380		2140		2020	

e Estimated.
* Regulated period only (1964-2001). See REMARKS.
@ Change in contents, equivalent in cubic feet per second, in Leeville and Smith Mountain Lake, 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.
$ Adjusted for change in contents.



0208062765 ROANOKE RIVER AT HALIFAX, NC

LOCATION.--Lat 36°19'59", long 77°34'58", North American Datum of 1983, 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.

GAGE-HEIGHT RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

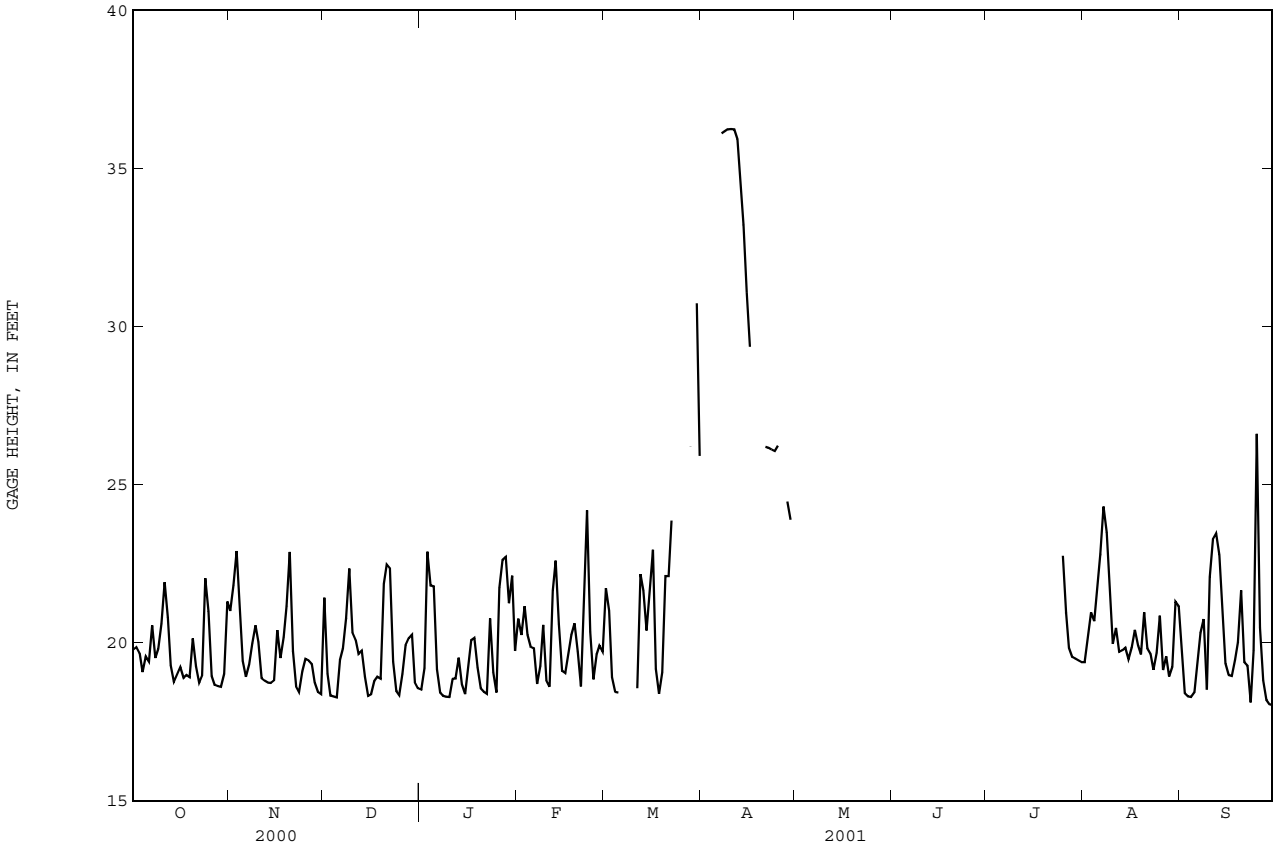
EXTREMES FOR PERIOD OF RECORD.--Maximum, 47.24 ft, Mar. 31, 1998; minimum, 16.43 ft, Dec. 8, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 36.26 ft, Apr. 9, 10; minimum, 17.99 ft, Sept. 24.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19.77	21.00	21.41	18.51	20.75	21.71	---	---	---	---	19.38	19.74
2	19.85	21.81	19.01	19.19	20.24	21.01	---	---	---	---	20.19	18.40
3	19.66	22.89	18.33	22.87	21.15	18.90	---	---	---	---	20.95	18.29
4	19.06	21.05	18.29	21.81	20.24	18.44	---	---	---	---	20.67	18.27
5	19.56	19.42	18.26	21.78	19.85	18.42	---	---	---	---	21.61	18.42
6	19.40	18.91	19.45	19.15	19.81	---	---	---	---	---	22.80	19.28
7	20.54	19.30	19.80	18.42	18.69	---	36.09	---	---	---	24.29	20.30
8	19.51	19.97	20.76	18.32	19.26	---	36.16	---	---	---	23.49	20.73
9	19.79	20.54	22.33	18.28	20.55	---	36.22	---	---	---	21.55	18.51
10	20.59	20.02	20.32	18.27	18.80	---	36.23	---	---	---	19.95	22.07
11	21.91	18.87	20.09	18.85	18.60	18.55	36.22	---	---	---	20.46	23.26
12	20.79	18.79	19.64	18.86	21.64	22.16	35.91	---	---	---	19.70	23.44
13	19.28	18.73	19.74	19.52	22.58	21.64	34.53	---	---	---	19.75	22.77
14	18.75	18.72	18.91	18.67	20.57	20.38	33.20	---	---	---	19.83	20.75
15	18.98	18.80	18.31	18.37	19.10	21.58	31.07	---	---	---	19.47	19.34
16	19.22	20.39	18.36	19.30	19.03	22.93	29.34	---	---	---	19.83	18.97
17	18.88	19.51	18.77	20.07	19.67	19.17	---	---	---	---	20.40	18.94
18	18.97	20.17	18.91	20.14	20.24	18.38	---	---	---	---	19.90	19.45
19	18.90	21.15	18.85	19.21	20.60	19.05	---	---	---	---	19.62	20.00
20	20.13	22.86	21.86	18.55	19.71	22.10	---	---	---	---	20.96	21.64
21	19.25	19.73	22.46	18.44	18.61	22.10	26.19	---	---	---	19.81	19.38
22	18.72	18.61	22.34	18.38	20.73	23.85	26.16	---	---	---	19.64	19.27
23	18.94	18.44	19.40	20.75	24.17	---	26.10	---	---	---	19.13	18.10
24	22.03	19.07	18.47	19.05	20.33	---	26.05	---	---	---	19.67	19.74
25	20.99	19.48	18.34	18.42	18.83	---	26.22	---	---	22.74	20.84	26.59
26	18.93	19.43	19.00	21.72	19.62	---	---	---	---	20.95	19.12	20.46
27	18.66	19.32	19.91	22.62	19.90	---	---	---	---	19.82	19.56	18.80
28	18.62	18.73	20.14	22.71	19.71	26.18	24.46	---	---	19.54	18.92	18.18
29	18.60	18.44	20.25	21.24	---	---	23.88	---	---	19.49	19.23	18.05
30	19.00	18.37	18.74	22.11	---	30.72	---	---	---	19.43	21.29	18.02
31	21.29	---	18.55	19.73	---	25.89	---	---	---	19.38	21.15	---
MEAN	19.63	19.75	19.65	19.78	20.11	---	---	---	---	---	20.42	19.97
MAX	22.03	22.89	22.46	22.87	24.17	---	---	---	---	---	24.29	26.59
MIN	18.60	18.37	18.26	18.27	18.60	---	---	---	---	---	18.92	18.02

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued



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 U.S. Fish and Wildlife Service 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	63, March 27, 1998
pH, standard units	8.1, March 29, 30, 2000	6.1, September 16, 1999
WATER TEMPERATURE, °C	30.9, July 22, 1998	2.3, January 4, 2001
DISSOLVED OXYGEN, mg/L	16.1, January 13, 1999	4.0, June 27, 2001
DISSOLVED OXYGEN, PERCENT SATURATION, %	132, January 13, 14, 1999	47, June 27, 2001

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	213, November 2	97, June 27, 28
pH, standard units	8.0, May 23, 24	6.5, July 27
WATER TEMPERATURE, °C	29.2, August 16, 17	2.3, January 4
DISSOLVED OXYGEN, mg/	12.7, December 28, January 2, 3	4.0, June 27
DISSOLVED OXYGEN, PERCENT SATURATION,%	107, May 24	47, June 27

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	133	118	128	130	118	125	131	108	119	131	130	131
2	132	127	131	213	115	126	132	109	123	132	121	130
3	137	120	131	124	112	117	131	125	129	129	111	116
4	144	133	138	131	115	123	126	125	125	126	111	117
5	145	135	142	131	116	124	128	124	127	129	112	119
6	149	124	136	129	124	127	133	116	129	138	113	129
7	150	120	141	130	125	127	131	114	119	137	133	135
8	142	120	132	130	121	125	134	113	124	134	131	133
9	141	122	138	129	119	123	129	110	114	135	132	134
10	141	120	129	129	117	122	126	113	118	138	135	137
11	144	122	129	131	128	130	131	115	126	138	125	135
12	145	122	132	129	125	127	133	115	120	139	124	134
13	143	126	137	125	124	124	136	120	131	139	120	130
14	144	142	143	126	123	125	138	120	128	136	119	129
15	142	133	138	128	125	126	141	138	140	132	129	130
16	137	128	133	126	111	118	141	139	140	131	118	128
17	141	136	138	125	115	120	142	129	133	135	118	125
18	141	134	138	128	112	120	131	124	128	130	118	124
19	141	134	138	127	107	114	138	128	133	132	125	129
20	142	124	131	124	106	113	138	115	124	131	125	130
21	141	131	136	125	107	117	125	114	118	129	125	128
22	141	137	140	127	119	124	130	115	122	126	125	126
23	137	134	136	125	119	123	136	115	126	128	113	121
24	134	121	125	123	115	121	137	135	136	130	113	123
25	137	123	128	119	114	118	137	134	136	131	129	130
26	141	133	137	119	108	112	134	122	130	131	115	124
27	140	135	138	121	111	119	122	114	119	124	115	118
28	137	134	135	126	109	119	118	114	116	124	114	118
29	135	131	134	130	126	129	117	114	115	137	115	122
30	132	130	131	131	129	130	131	117	125	131	118	123
31	131	117	123	---	---	---	131	130	131	138	118	129
MONTH	150	117	134	213	106	122	142	108	126	139	111	127

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	139	124	130	152	122	134	---	---	---	---	---	---
2	134	121	127	142	122	130	---	---	---	144	141	142
3	138	118	127	145	123	135	---	---	---	143	140	142
4	135	118	126	144	141	143	---	---	---	143	140	142
5	133	120	126	142	140	141	130	127	128	144	140	142
6	134	119	125	144	120	132	130	126	128	143	138	140
7	137	120	130	148	123	132	130	125	127	140	137	139
8	139	123	135	150	125	134	128	123	125	140	137	139
9	136	120	128	150	126	133	125	122	123	142	137	140
10	136	119	129	152	128	136	127	123	125	144	140	142
11	135	133	135	150	144	148	128	125	127	147	143	145
12	134	117	123	148	119	135	130	127	129	145	141	143
13	135	116	121	142	121	128	129	127	128	146	141	144
14	136	121	126	143	127	129	---	---	---	144	138	141
15	139	130	135	145	125	134	---	---	---	143	138	140
16	140	128	134	132	120	124	---	---	---	140	133	136
17	134	123	130	141	123	133	---	---	---	135	131	133
18	131	117	123	141	140	141	---	---	---	132	126	129
19	137	117	126	141	128	138	---	---	---	130	123	127
20	138	120	129	135	120	126	---	---	---	125	122	124
21	142	128	137	132	121	126	---	---	---	122	120	121
22	145	115	134	130	117	123	---	---	---	126	120	124
23	128	118	121	132	118	124	---	---	---	127	122	125
24	139	118	128	---	---	---	---	---	---	124	122	123
25	140	139	139	---	---	---	---	---	---	122	119	121
26	139	123	131	---	---	---	---	---	---	121	116	119
27	150	129	140	---	---	---	---	---	---	117	115	117
28	150	129	135	---	---	---	---	---	---	116	113	115
29	---	---	---	---	---	---	---	---	---	122	113	117
30	---	---	---	---	---	---	---	---	---	123	121	122
31	---	---	---	---	---	---	---	---	---	123	121	122
MONTH	150	115	130	---	---	---	---	---	---	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	124	119	122	111	106	109	124	116	121	130	112	120
2	121	118	120	122	111	118	122	116	119	137	130	134
3	119	117	118	123	118	120	122	114	118	138	134	136
4	118	117	118	122	106	113	121	112	116	139	135	137
5	118	114	118	---	---	---	121	105	118	139	137	138
6	115	108	110	---	---	---	113	104	106	140	122	130
7	113	108	111	---	---	---	114	106	108	141	120	128
8	114	112	113	---	---	---	117	107	110	133	113	118
9	114	113	114	---	---	---	118	108	111	139	130	137
10	115	113	114	117	99	103	121	118	120	137	114	122
11	115	113	114	115	99	104	119	112	116	130	112	118
12	115	110	114	110	99	102	120	112	116	128	112	118
13	114	110	113	109	98	101	119	117	118	129	114	119
14	114	112	113	---	---	---	121	113	117	132	118	124
15	112	108	110	---	---	---	123	119	121	131	122	128
16	108	103	106	---	---	---	124	122	123	131	129	130
17	107	102	103	---	---	---	124	114	119	130	128	129
18	118	106	113	116	106	111	123	114	119	133	120	129
19	108	102	105	117	115	116	122	120	120	132	120	127
20	121	108	116	116	107	111	121	109	115	126	114	120
21	115	106	110	117	112	114	124	117	119	137	114	128
22	114	107	111	118	113	115	125	113	119	138	119	126
23	116	113	115	125	107	113	126	123	125	139	131	137
24	122	113	118	124	114	117	125	120	124	139	117	135
25	---	---	---	124	113	118	121	110	113	117	109	111
26	---	---	---	121	111	115	127	121	124	130	111	120
27	110	97	99	---	---	---	127	117	123	134	116	125
28	113	97	102	118	116	117	130	126	128	136	125	131
29	118	101	106	118	116	117	133	129	130	138	133	135
30	121	106	111	116	114	115	131	116	120	135	133	134
31	---	---	---	117	113	115	132	115	120	---	---	---
MONTH	---	---	---	---	---	---	133	104	119	141	109	127

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	7.3	7.4	7.3	7.0	7.1	7.3	7.1	7.2	7.0	6.8	6.9
2	7.6	7.4	7.5	7.3	7.0	7.2	7.3	7.1	7.2	6.9	6.7	6.8
3	7.6	7.4	7.5	7.1	7.0	7.1	7.2	7.1	7.2	6.9	6.7	6.7
4	7.8	7.4	7.5	7.3	7.0	7.1	7.2	7.1	7.1	6.8	6.6	6.7
5	7.8	7.2	7.5	7.3	7.0	7.1	7.3	7.1	7.2	6.8	6.7	6.8
6	7.6	7.1	7.3	7.3	7.1	7.2	7.3	7.1	7.2	6.8	6.6	6.8
7	7.6	7.2	7.4	7.4	7.1	7.2	7.3	7.1	7.2	6.8	6.6	6.8
8	7.5	7.2	7.3	7.3	7.0	7.1	7.3	7.2	7.2	6.8	6.6	6.7
9	7.4	7.2	7.3	7.3	7.0	7.1	7.3	7.2	7.3	6.7	6.6	6.7
10	7.5	7.1	7.3	7.1	6.9	7.0	7.3	7.1	7.2	6.8	6.6	6.7
11	7.4	7.1	7.3	7.2	7.0	7.1	7.2	7.1	7.2	6.9	6.7	6.8
12	7.4	7.2	7.3	7.3	7.0	7.2	7.2	7.1	7.2	7.0	6.8	6.9
13	7.6	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	6.9	6.7	6.8
14	7.6	7.2	7.3	7.3	7.1	7.2	7.3	7.1	7.2	7.0	6.8	6.9
15	7.6	7.2	7.3	7.5	7.1	7.2	7.2	7.1	7.1	6.9	6.8	6.8
16	7.7	7.1	7.3	7.5	7.1	7.2	7.3	7.1	7.2	7.0	6.8	6.9
17	7.6	7.2	7.3	7.3	7.1	7.1	7.1	6.9	7.0	7.2	6.9	7.0
18	7.3	7.1	7.2	7.4	7.1	7.2	7.1	6.9	7.0	7.2	6.9	7.0
19	7.6	7.1	7.3	7.3	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.0
20	7.6	7.0	7.2	7.2	7.1	7.1	7.2	7.1	7.1	7.1	6.9	7.0
21	7.4	7.0	7.2	7.3	7.1	7.2	7.2	7.1	7.2	7.0	6.9	6.9
22	7.5	7.0	7.2	7.4	7.1	7.2	7.2	7.1	7.2	7.2	7.0	7.1
23	7.5	7.0	7.2	7.5	7.1	7.3	7.2	7.2	7.2	7.3	7.1	7.2
24	7.4	7.0	7.1	7.4	7.1	7.2	7.3	7.1	7.2	7.3	7.1	7.2
25	7.4	7.0	7.1	7.3	7.1	7.2	7.3	7.2	7.2	7.3	7.1	7.2
26	7.3	7.0	7.1	7.1	7.0	7.1	7.3	7.2	7.2	7.4	7.1	7.3
27	7.4	7.0	7.2	7.2	7.1	7.1	7.3	7.1	7.2	7.4	7.2	7.3
28	7.4	7.0	7.2	7.3	7.1	7.2	7.2	7.0	7.1	7.5	7.2	7.3
29	7.4	7.1	7.2	7.3	7.1	7.2	7.2	6.9	7.0	7.9	7.4	7.5
30	7.5	7.1	7.2	7.3	7.1	7.2	7.1	6.9	7.0	7.9	7.6	7.7
31	7.3	7.0	7.0	---	---	---	7.1	6.9	7.0	7.8	7.5	7.6
MONTH	7.8	7.0	7.3	7.5	6.9	7.2	7.3	6.9	7.2	7.9	6.6	7.0

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.2	7.3	7.0	6.8	6.9	7.2	6.9	7.0	7.1	7.0	7.1
2	7.4	7.1	7.2	7.2	6.9	7.1	7.4	6.9	7.1	7.2	7.1	7.1
3	7.6	7.2	7.3	7.4	6.8	7.1	7.4	6.9	7.1	7.3	7.1	7.2
4	7.6	7.2	7.3	7.2	6.8	6.9	7.2	6.9	7.0	7.3	7.1	7.2
5	7.6	7.2	7.3	---	---	---	7.3	6.9	7.1	7.4	7.2	7.3
6	7.5	7.0	7.1	---	---	---	7.3	6.9	7.0	7.4	7.1	7.2
7	7.3	7.1	7.2	---	---	---	7.2	6.9	7.0	7.3	7.0	7.1
8	7.4	7.2	7.2	---	---	---	7.1	6.9	7.0	7.1	7.0	7.0
9	7.3	7.1	7.2	---	---	---	7.1	7.0	7.0	7.3	7.1	7.1
10	7.3	7.1	7.2	6.9	6.8	6.8	7.3	6.9	7.1	7.2	6.9	7.0
11	7.3	7.0	7.1	7.0	6.8	6.8	7.2	6.8	7.0	7.2	7.0	7.0
12	7.2	6.9	7.0	6.9	6.8	6.8	7.0	6.8	6.9	7.2	7.0	7.0
13	7.2	6.7	6.9	6.9	6.7	6.8	7.1	6.9	7.0	7.2	6.9	7.0
14	6.9	6.7	6.8	---	---	---	7.1	6.9	7.0	7.2	7.0	7.0
15	6.8	6.7	6.7	---	---	---	7.2	6.9	7.0	7.2	7.0	7.1
16	6.8	6.7	6.7	---	---	---	7.3	6.9	7.1	7.3	7.1	7.2
17	6.7	6.6	6.7	---	---	---	7.2	6.8	6.9	7.3	7.1	7.2
18	6.9	6.7	6.7	7.1	6.8	6.9	7.1	6.8	6.8	7.3	7.0	7.1
19	6.9	6.7	6.8	6.9	6.8	6.9	6.9	6.7	6.7	7.3	7.1	7.2
20	7.0	6.6	6.8	6.9	6.7	6.8	7.0	6.7	6.8	7.3	7.0	7.1
21	6.8	6.6	6.7	7.0	6.8	6.9	7.1	6.8	6.9	7.3	7.1	7.1
22	6.9	6.7	6.7	7.1	6.8	6.9	7.1	6.8	6.9	7.3	7.0	7.0
23	6.9	6.7	6.8	7.1	6.7	6.8	7.1	6.8	6.9	7.3	7.0	7.1
24	7.0	6.7	6.9	7.2	6.7	6.9	7.1	6.7	6.9	7.3	7.0	7.2
25	---	---	---	7.1	6.9	7.0	7.0	6.8	6.8	7.0	6.9	7.0
26	---	---	---	7.0	6.7	6.8	7.1	6.8	6.9	7.1	7.0	7.0
27	7.2	6.7	6.9	6.9	6.5	6.7	7.1	6.8	6.9	7.2	7.0	7.1
28	7.0	6.8	6.9	7.0	6.7	6.8	7.1	6.8	7.0	7.2	7.0	7.1
29	7.2	6.8	6.9	7.0	6.8	6.9	7.2	6.9	7.1	7.1	7.0	7.1
30	7.2	6.8	6.9	7.0	6.9	6.9	7.2	6.9	7.0	7.2	7.1	7.2
31	---	---	---	7.1	6.9	7.0	7.2	6.9	7.0	---	---	---
MONTH	---	---	---	---	---	---	7.4	6.7	7.0	7.4	6.9	7.1

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.9	21.0	21.4	17.5	16.5	17.0	9.6	8.6	9.2	3.4	3.0	3.3
2	21.8	21.0	21.4	17.1	16.1	16.8	9.4	8.7	9.0	3.5	3.2	3.4
3	22.5	21.2	21.7	16.9	16.0	16.4	8.7	7.0	8.0	3.6	2.6	3.1
4	22.9	22.4	22.7	17.0	16.3	16.7	7.7	6.6	7.1	3.3	2.3	2.9
5	23.4	22.3	22.7	16.9	16.2	16.6	7.9	7.2	7.6	3.5	2.7	3.1
6	23.4	22.4	22.9	16.2	15.4	15.7	8.1	7.4	7.6	3.5	3.0	3.2
7	23.3	22.3	22.8	16.2	15.5	15.8	8.1	7.3	7.7	3.7	3.0	3.5
8	22.5	19.8	20.9	17.2	16.1	16.5	8.0	7.3	7.7	4.3	3.7	4.0
9	19.9	19.0	19.5	17.2	16.4	16.8	7.9	7.2	7.6	4.3	3.6	4.0
10	19.8	18.5	19.3	17.2	16.4	16.8	7.6	6.8	7.0	3.6	3.2	3.4
11	19.7	18.3	19.1	16.4	15.4	15.8	7.6	6.8	7.2	4.2	3.3	3.9
12	19.2	18.1	18.7	15.8	15.2	15.5	8.2	7.6	7.9	4.9	4.2	4.7
13	18.9	18.2	18.5	15.5	15.1	15.3	7.9	6.7	7.1	4.6	4.3	4.4
14	18.8	18.3	18.6	15.8	14.7	15.3	7.6	7.4	7.5	4.7	4.3	4.5
15	19.0	18.5	18.7	14.7	13.9	14.2	8.0	7.5	7.7	5.7	4.5	5.2
16	19.5	18.9	19.2	14.2	13.4	13.9	7.8	7.4	7.6	5.7	5.0	5.3
17	19.5	18.7	19.1	14.3	13.8	14.0	9.5	7.6	9.0	5.6	4.8	5.1
18	19.3	18.9	19.1	13.8	12.8	13.2	8.9	6.8	7.4	5.6	5.0	5.2
19	19.5	18.8	19.1	13.3	12.1	12.7	7.7	6.8	7.1	6.0	5.4	5.7
20	19.6	18.6	18.9	12.6	11.8	12.3	7.7	6.5	7.0	6.3	5.8	6.1
21	19.4	18.6	19.0	12.2	10.4	11.4	6.8	5.9	6.4	5.8	4.6	5.3
22	19.6	19.0	19.4	10.4	9.1	9.7	6.8	6.2	6.5	5.0	4.6	4.9
23	19.6	18.5	19.1	9.7	9.2	9.4	6.2	4.4	5.3	5.3	4.3	5.0
24	19.2	18.0	18.4	9.6	9.2	9.4	5.2	4.5	5.0	5.4	5.0	5.2
25	19.2	18.3	18.7	10.1	9.4	9.6	5.2	4.1	4.9	5.7	4.8	5.3
26	18.8	18.3	18.5	10.5	10.1	10.3	4.9	3.9	4.2	5.2	4.1	4.8
27	19.0	18.4	18.7	10.2	9.9	10.1	5.3	4.6	4.9	5.1	4.2	4.6
28	18.9	18.6	18.8	10.3	9.7	10.1	5.3	4.5	4.8	5.3	4.1	4.8
29	18.7	17.2	17.9	10.0	9.6	9.7	4.7	4.1	4.3	5.5	4.6	4.9
30	17.9	16.9	17.2	10.1	9.0	9.8	4.4	3.4	4.1	5.7	5.0	5.4
31	17.9	17.1	17.3	---	---	---	3.5	3.0	3.3	6.8	5.5	6.1
MONTH	23.4	16.9	19.6	17.5	9.0	13.6	9.6	3.0	6.7	6.8	2.3	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	5.7	6.0	8.9	7.8	8.4	13.1	10.9	11.5	---	---	---
2	6.3	5.6	5.8	9.0	8.3	8.7	12.2	11.2	11.6	19.0	17.2	18.1
3	6.2	5.2	5.8	9.3	8.8	9.1	11.6	11.1	11.2	19.1	17.1	18.2
4	6.0	5.3	5.7	9.5	9.0	9.3	11.6	11.2	11.4	19.6	17.7	18.5
5	6.4	6.0	6.1	9.0	8.3	8.8	12.1	11.1	11.5	20.1	18.0	19.0
6	6.3	5.8	6.1	8.4	7.1	8.1	12.6	11.4	11.9	19.9	17.9	18.7
7	6.9	6.3	6.6	7.9	7.2	7.4	13.2	12.1	12.6	20.4	17.1	18.4
8	7.1	6.4	6.7	8.4	7.1	7.6	14.0	12.3	13.2	20.4	18.6	19.4
9	7.3	6.4	6.8	8.9	7.4	8.1	14.2	13.7	13.8	20.3	18.1	18.9
10	8.8	7.2	8.3	9.0	7.4	8.0	14.2	13.6	13.9	19.7	18.0	18.7
11	8.4	7.1	7.8	9.0	7.8	8.6	14.6	13.1	13.8	20.0	18.7	19.2
12	7.9	6.5	6.9	9.7	8.4	9.1	14.5	13.7	14.0	20.1	18.6	19.3
13	8.1	6.9	7.4	11.2	8.6	9.7	15.0	13.9	14.2	20.9	20.0	20.3
14	7.9	7.4	7.6	11.0	9.4	10.1	15.8	14.9	15.3	21.0	18.9	20.2
15	8.9	7.9	8.5	11.2	9.5	9.9	16.5	15.4	15.8	21.1	19.8	20.2
16	9.0	8.3	8.8	10.5	9.6	10.0	16.6	15.9	16.2	20.5	19.9	20.2
17	8.7	8.2	8.4	11.7	10.4	11.1	16.3	15.0	15.5	20.5	19.1	19.5
18	8.2	7.2	7.8	11.9	10.8	11.4	15.1	14.3	14.7	20.5	19.1	19.6
19	8.1	7.0	7.7	11.2	10.4	10.8	15.1	13.7	14.4	21.8	20.2	20.8
20	8.8	7.7	8.1	11.5	9.4	10.3	15.0	14.0	14.4	21.9	19.7	20.8
21	9.6	8.8	9.3	11.1	10.0	10.5	15.8	14.0	14.8	20.4	19.4	19.8
22	8.9	7.1	8.0	11.4	10.4	10.9	16.7	14.9	15.7	22.2	20.4	21.1
23	7.8	6.9	7.4	11.5	10.2	10.8	17.9	16.2	16.9	23.5	21.0	22.2
24	8.2	7.4	7.7	12.1	10.2	10.9	18.5	16.8	17.6	23.5	21.0	21.9
25	8.3	7.4	8.0	12.1	10.7	11.0	18.4	16.4	17.2	22.4	20.6	21.5
26	9.1	8.0	8.6	11.6	10.5	10.9	17.2	15.8	16.4	22.3	21.0	21.6
27	9.6	8.6	9.1	11.6	10.0	10.7	17.6	15.5	16.4	22.6	21.0	21.7
28	9.6	8.3	8.7	11.0	10.0	10.5	18.0	16.6	17.2	22.6	21.7	22.0
29	---	---	---	10.7	10.1	10.2	17.9	15.8	16.6	22.5	21.2	21.7
30	---	---	---	11.9	10.5	11.0	17.9	15.8	16.8	23.2	21.3	22.2
31	---	---	---	12.2	11.0	11.5	---	---	---	23.2	22.1	22.4
MONTH	9.6	5.2	7.5	12.2	7.1	9.8	18.5	10.9	14.6	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.3	21.1	21.6	26.6	26.1	26.5	25.7	24.8	25.2	28.3	27.4	27.6
2	22.7	21.2	21.7	27.5	26.5	27.0	26.2	24.3	25.2	27.9	27.1	27.5
3	22.9	21.9	22.3	27.0	25.3	26.1	26.6	24.5	25.4	27.4	26.9	27.1
4	22.9	21.7	22.2	27.8	25.8	26.5	26.1	25.1	25.6	27.1	26.5	26.8
5	23.5	21.4	22.4	---	---	---	26.5	25.4	25.9	27.5	26.5	26.9
6	23.4	21.5	22.3	---	---	---	27.5	25.4	26.2	27.5	26.2	26.8
7	24.0	23.2	23.4	---	---	---	27.6	25.3	26.2	27.5	25.5	26.4
8	24.1	23.1	23.4	---	---	---	28.1	27.1	27.6	27.1	25.4	26.0
9	23.8	22.4	23.0	---	---	---	28.7	27.2	28.0	26.8	26.0	26.5
10	24.0	23.1	23.5	27.0	25.8	26.2	28.9	27.5	28.0	26.8	25.5	26.1
11	24.0	23.0	23.2	27.0	25.9	26.3	28.9	27.2	28.0	27.0	25.9	26.6
12	24.4	22.8	23.4	26.9	25.5	26.2	28.8	27.3	27.7	26.9	25.5	26.0
13	24.4	23.1	23.6	25.8	25.4	25.7	29.1	27.8	28.5	26.4	25.0	25.6
14	23.6	22.3	22.9	---	---	---	29.0	27.8	28.4	26.4	24.5	25.1
15	23.1	22.4	22.8	---	---	---	28.8	28.0	28.4	24.6	23.4	23.8
16	23.8	22.2	23.0	---	---	---	29.2	27.8	28.4	23.9	23.3	23.7
17	24.1	23.5	23.8	---	---	---	29.2	27.3	28.1	24.0	23.3	23.7
18	24.9	23.1	23.9	26.9	25.3	26.1	29.0	28.1	28.5	24.0	23.0	23.5
19	24.0	22.2	23.1	25.9	25.2	25.4	28.1	26.3	27.0	23.9	22.8	23.4
20	25.6	23.6	24.8	25.9	24.8	25.3	27.9	27.1	27.5	23.9	22.7	23.1
21	25.1	23.5	24.2	25.8	25.3	25.5	28.5	27.4	27.8	24.4	23.2	23.7
22	25.6	23.4	24.3	27.1	25.4	25.7	28.5	27.0	27.5	24.5	23.4	24.0
23	25.6	23.5	24.4	27.0	24.7	25.5	28.0	27.2	27.5	25.0	24.0	24.6
24	25.6	24.6	25.1	26.5	24.6	25.3	28.5	27.0	27.6	24.6	23.5	24.3
25	---	---	---	27.4	25.7	26.5	28.3	26.8	27.3	24.1	23.4	23.8
26	---	---	---	27.0	26.3	26.6	27.7	27.0	27.4	23.7	22.6	23.0
27	25.6	23.4	24.1	26.6	25.8	26.2	28.0	26.9	27.4	22.8	22.5	22.7
28	26.4	24.5	25.1	25.9	24.9	25.2	28.2	27.5	27.9	22.9	21.6	22.4
29	26.7	25.4	26.2	25.2	24.5	24.8	28.5	28.0	28.3	21.7	20.9	21.5
30	26.7	24.1	25.4	25.2	24.5	24.8	28.5	27.0	27.4	21.1	20.4	20.8
31	---	---	---	25.6	24.7	25.2	28.5	26.9	27.5	---	---	---
MONTH	---	---	---	---	---	---	29.2	24.3	27.3	28.3	20.4	24.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.1	7.4	9.2	8.0	8.3	11.3	10.6	11.0	12.6	12.2	12.4
2	7.8	7.1	7.5	9.2	8.0	8.5	11.6	10.6	11.0	12.7	12.2	12.4
3	8.0	7.1	7.5	8.8	8.2	8.3	11.3	10.9	11.1	12.7	12.2	12.3
4	8.1	7.1	7.5	9.2	8.1	8.5	11.7	11.1	11.3	12.5	12.2	12.3
5	8.4	6.9	7.7	9.1	8.1	8.4	11.9	11.1	11.4	12.6	12.2	12.3
6	8.1	6.6	7.1	9.5	8.4	8.8	12.0	11.1	11.5	12.5	12.0	12.2
7	8.1	6.9	7.6	9.6	8.6	9.0	11.9	11.1	11.4	12.4	12.0	12.2
8	8.1	7.2	7.5	9.6	8.2	8.7	11.9	11.2	11.5	12.2	11.7	12.0
9	8.0	7.4	7.7	9.6	8.1	8.6	12.0	11.2	11.6	12.0	11.7	11.8
10	8.7	7.5	8.1	9.3	8.0	8.3	12.0	11.5	11.6	12.2	12.0	12.1
11	8.6	7.6	8.1	9.8	8.7	9.2	11.8	11.3	11.5	12.3	11.8	12.0
12	8.8	7.9	8.3	9.9	8.7	9.2	11.8	11.1	11.3	12.2	11.6	11.9
13	9.3	8.0	8.5	9.9	8.9	9.3	11.9	11.0	11.6	12.0	11.6	11.8
14	9.4	8.1	8.6	10.0	8.9	9.3	12.1	11.0	11.4	12.1	11.7	11.9
15	9.3	8.0	8.5	10.1	8.9	9.3	11.6	11.1	11.3	11.9	11.5	11.7
16	9.3	7.8	8.4	10.2	8.8	9.3	11.8	11.0	11.4	11.9	11.4	11.7
17	9.2	7.8	8.4	9.8	8.5	9.2	11.3	10.1	10.6	12.1	11.6	11.9
18	8.4	7.8	8.1	10.3	9.3	9.6	11.2	10.2	10.7	12.0	11.4	11.7
19	9.2	7.8	8.3	10.2	9.0	9.3	11.6	10.8	11.1	11.7	11.4	11.5
20	9.2	7.7	8.2	9.9	9.3	9.5	11.6	10.8	11.1	11.5	10.9	11.2
21	9.1	7.8	8.3	10.9	9.6	10.1	11.7	11.2	11.5	11.8	11.0	11.3
22	9.2	7.7	8.3	11.2	10.3	10.7	11.9	11.2	11.6	11.9	11.5	11.7
23	9.2	7.8	8.4	11.4	10.3	10.7	12.0	11.4	11.8	11.9	11.4	11.7
24	9.2	7.5	7.8	11.3	10.3	10.7	12.2	11.6	11.9	11.9	11.4	11.7
25	9.2	7.6	7.9	11.2	10.4	10.7	12.1	11.6	11.8	11.8	11.3	11.5
26	8.8	7.7	8.2	10.4	9.9	10.1	12.4	11.9	12.1	12.1	11.6	11.8
27	9.0	7.7	8.3	11.0	10.2	10.4	12.5	11.8	12.2	11.9	11.8	11.9
28	9.1	7.7	8.3	11.2	10.3	10.7	12.7	11.7	12.1	12.1	11.7	11.9
29	9.1	7.9	8.4	11.2	10.4	10.8	12.5	11.9	12.1	12.1	10.8	11.6
30	9.3	8.0	8.5	11.3	10.3	10.7	12.6	12.1	12.3	12.0	11.2	11.7
31	9.0	7.7	8.0	---	---	---	12.5	12.2	12.3	11.8	10.9	11.3
MONTH	9.4	6.6	8.0	11.4	8.0	9.5	12.7	10.1	11.5	12.7	10.8	11.9

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.8	11.1	11.3	10.9	10.1	10.6	9.2	8.6	9.0	---	---	---
2	11.6	11.0	11.2	10.9	10.0	10.4	9.2	8.9	9.0	9.7	7.4	8.2
3	11.6	11.2	11.4	10.6	9.7	10.1	9.1	8.9	9.0	9.2	7.1	7.9
4	11.6	11.1	11.3	10.3	9.6	9.9	9.0	8.8	8.9	9.1	6.6	7.5
5	11.3	10.7	11.0	10.2	9.7	9.8	9.0	8.7	8.8	8.9	6.4	7.4
6	11.4	10.9	11.1	11.5	10.2	11.1	9.0	8.7	8.8	8.7	6.3	7.2
7	11.4	10.6	10.9	11.6	11.3	11.4	8.9	8.6	8.7	8.6	6.6	7.3
8	11.2	10.8	11.0	11.8	11.3	11.5	8.8	8.5	8.6	8.6	6.5	7.3
9	11.3	10.7	10.9	11.7	10.7	11.1	8.8	8.4	8.6	8.4	6.3	7.0
10	10.9	9.5	10.2	11.2	10.8	11.0	8.9	8.5	8.7	8.2	6.0	6.9
11	11.0	9.8	10.1	11.2	10.4	10.8	8.9	8.6	8.7	8.3	5.9	6.9
12	11.1	10.4	10.7	11.1	10.2	10.8	9.1	8.6	8.8	7.9	5.5	6.6
13	10.8	10.3	10.5	11.0	9.8	10.5	9.0	8.7	8.9	7.7	5.2	6.1
14	10.5	9.8	10.2	10.5	9.6	10.1	9.0	8.6	8.8	7.8	5.6	6.6
15	10.0	9.3	9.6	10.1	9.5	9.8	8.9	8.4	8.6	7.6	5.3	6.3
16	9.9	9.3	9.6	10.1	9.4	9.9	8.8	8.1	8.4	7.5	5.8	6.4
17	10.2	9.5	9.8	9.9	8.8	9.4	8.7	8.2	8.4	7.5	6.0	6.5
18	10.5	9.9	10.1	9.5	8.8	9.2	9.1	8.4	8.6	7.5	6.2	6.7
19	10.8	10.3	10.4	9.8	8.9	9.4	9.5	8.5	8.9	8.6	6.1	7.1
20	10.6	9.9	10.2	10.1	9.4	9.7	9.4	8.7	9.0	8.6	6.4	7.2
21	10.3	9.3	9.8	10.0	9.0	9.4	9.6	8.7	9.1	8.1	6.8	7.3
22	10.9	9.9	10.3	9.9	9.0	9.5	9.5	8.7	9.0	8.6	6.7	7.5
23	10.8	10.4	10.5	9.9	9.2	9.5	9.4	8.5	8.9	9.0	6.7	7.6
24	10.8	10.2	10.5	9.8	9.4	9.6	9.5	8.3	8.8	9.0	6.7	7.6
25	10.7	10.1	10.3	9.7	9.0	9.5	9.4	8.2	8.4	8.7	6.7	7.5
26	10.3	9.8	10.0	9.8	8.8	9.4	9.5	8.2	8.6	8.7	6.5	7.2
27	10.3	9.7	10.0	9.7	8.9	9.5	9.5	8.1	8.6	8.5	6.4	7.1
28	10.3	9.6	9.9	9.8	9.1	9.6	9.5	7.8	8.5	8.4	6.5	7.1
29	---	---	---	9.7	9.1	9.5	9.6	7.8	8.4	7.8	6.3	6.8
30	---	---	---	9.6	9.1	9.4	9.6	7.9	8.5	8.4	6.5	7.3
31	---	---	---	9.4	8.6	9.0	---	---	---	8.3	6.8	7.4
MONTH	11.8	9.3	10.5	11.8	8.6	10.0	9.6	7.8	8.7	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	6.6	7.0	6.2	5.3	5.6	7.7	6.4	7.0	6.2	5.9	6.1
2	7.9	6.5	7.0	7.1	5.6	6.2	7.9	6.3	6.8	7.1	6.2	6.6
3	8.3	6.9	7.4	7.2	5.7	6.4	7.8	6.2	6.8	7.4	6.6	7.0
4	8.3	7.0	7.5	7.0	5.4	5.9	7.1	5.8	6.3	7.6	6.7	7.0
5	8.3	6.9	7.5	---	---	---	7.4	6.0	6.6	8.0	7.1	7.4
6	8.2	6.7	7.2	---	---	---	7.4	5.8	6.1	8.1	5.7	6.8
7	7.9	7.0	7.3	---	---	---	7.1	5.7	6.2	6.8	5.5	6.0
8	7.9	7.0	7.3	---	---	---	7.0	5.9	6.3	6.2	5.3	5.7
9	7.6	5.9	6.6	---	---	---	6.9	6.0	6.2	6.7	5.8	6.1
10	6.6	5.6	6.1	6.1	5.2	5.7	7.3	5.9	6.5	6.5	4.9	5.4
11	6.3	5.5	5.8	6.2	5.3	5.6	7.2	6.0	6.4	6.5	5.7	6.0
12	7.3	5.5	6.1	6.2	4.9	5.7	6.9	5.9	6.3	6.8	5.5	5.9
13	7.3	5.8	6.4	6.0	5.4	5.6	7.2	6.0	6.6	6.7	5.2	5.7
14	7.0	5.7	6.2	---	---	---	6.8	6.0	6.2	6.8	5.8	6.2
15	6.3	5.6	5.9	---	---	---	7.2	6.0	6.5	7.2	6.2	6.6
16	6.7	5.3	5.8	---	---	---	7.4	6.2	6.7	7.5	6.7	7.0
17	6.7	5.7	6.1	---	---	---	7.3	5.8	6.2	7.6	6.8	7.1
18	7.5	5.8	6.5	7.3	6.2	6.5	6.9	5.7	6.1	7.7	6.8	7.2
19	7.2	5.8	6.3	7.4	6.2	6.6	6.6	5.8	6.0	7.9	6.9	7.3
20	7.9	6.2	7.0	7.3	5.8	6.3	6.8	5.6	6.1	8.0	7.0	7.4
21	---	---	---	7.7	6.4	7.0	7.3	5.9	6.4	8.5	7.2	7.6
22	---	---	---	7.9	6.3	7.2	7.3	5.9	6.4	8.5	7.3	7.7
23	---	---	---	7.9	5.6	6.3	7.3	6.2	6.6	8.5	7.4	8.0
24	---	---	---	6.5	5.3	5.9	7.5	6.4	6.9	8.5	7.0	7.9
25	---	---	---	6.9	5.7	6.3	7.1	6.4	6.6	7.0	6.0	6.4
26	---	---	---	6.8	6.0	6.3	7.4	6.4	6.9	---	---	---
27	7.1	4.0	4.6	7.3	6.0	6.5	7.6	6.4	6.8	---	---	---
28	6.5	4.4	5.5	7.2	6.2	6.6	7.6	6.6	7.0	---	---	---
29	7.4	5.3	5.9	7.2	6.2	6.6	7.5	6.0	6.7	---	---	---
30	7.2	5.2	5.8	7.1	6.4	6.6	6.9	5.4	5.9	---	---	---
31	---	---	---	7.5	6.5	6.9	6.6	5.6	5.9	---	---	---
MONTH	---	---	---	---	---	---	7.9	5.4	6.5	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	95	89	91	94	86	91	87	80	83	---	---	---
2	94	88	90	95	86	90	86	81	83	104	77	87
3	94	89	92	92	84	88	84	81	83	99	74	84
4	93	88	91	90	84	86	82	80	81	98	70	81
5	91	87	89	87	84	85	84	79	81	98	68	80
6	92	88	90	98	87	94	85	80	82	95	67	77
7	93	87	89	97	94	95	85	80	82	96	69	78
8	92	87	90	100	93	97	85	80	82	96	70	80
9	94	88	90	100	91	94	86	81	83	93	68	76
10	91	82	86	97	91	93	87	82	84	90	65	75
11	92	83	85	96	90	93	87	82	84	91	63	75
12	92	86	88	96	88	94	89	83	86	86	59	71
13	92	85	88	95	88	92	89	84	87	85	58	68
14	89	82	85	94	86	90	91	85	88	87	63	73
15	85	80	83	92	83	87	90	84	87	86	59	70
16	85	80	83	89	84	88	91	82	86	83	64	70
17	87	82	84	89	81	85	89	82	84	83	65	71
18	88	82	85	89	80	84	90	82	85	84	68	73
19	90	85	88	89	80	85	94	83	87	98	69	80
20	90	84	87	92	82	87	93	85	89	99	71	81
21	90	81	86	89	81	84	97	84	90	91	74	80
22	91	85	87	91	81	86	98	86	91	100	75	84
23	90	86	88	91	83	86	100	87	92	106	75	88
24	91	86	88	91	84	87	102	86	93	107	75	87
25	90	85	87	89	81	86	100	85	88	100	75	85
26	88	84	86	90	79	85	99	83	88	100	74	82
27	91	84	87	90	79	86	100	81	88	98	73	81
28	90	82	85	89	81	86	100	81	88	98	74	81
29	---	---	---	87	81	85	100	79	87	90	72	78
30	---	---	---	88	83	86	102	80	88	98	74	84
31	---	---	---	86	79	83	---	---	---	97	78	85
MONTH	95	80	87	100	79	88	102	79	86	---	---	---

0208062765 ROANOKE RIVER AT HALIFAX, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	90	74	80	78	66	70	94	78	85	80	75	77
2	92	74	79	90	71	79	97	75	83	89	79	84
3	97	79	85	90	69	79	97	76	83	93	84	88
4	96	80	86	90	68	73	87	72	77	96	84	88
5	98	79	86	---	---	---	91	74	82	102	88	93
6	96	77	83	---	---	---	94	71	76	102	71	85
7	94	83	86	---	---	---	90	70	76	87	68	74
8	94	82	86	---	---	---	90	75	80	77	65	70
9	89	68	77	---	---	---	88	78	80	84	72	76
10	78	66	72	77	65	71	95	76	84	81	60	67
11	75	64	68	78	66	70	94	77	82	82	70	76
12	88	65	72	76	60	70	89	75	80	85	67	73
13	86	68	76	74	67	69	95	77	85	84	64	70
14	82	66	73	---	---	---	88	78	80	84	71	76
15	74	65	69	---	---	---	93	78	84	86	73	78
16	80	62	68	---	---	---	97	80	86	89	80	83
17	79	68	72	---	---	---	95	75	80	91	81	84
18	91	68	77	92	76	81	91	74	79	91	80	85
19	85	67	73	91	76	81	85	72	75	94	81	86
20	95	74	85	90	70	77	86	71	78	94	82	86
21	---	---	---	95	78	86	95	76	82	102	85	90
22	---	---	---	100	78	88	94	76	81	102	87	92
23	---	---	---	99	68	77	93	78	84	102	90	96
24	---	---	---	81	64	72	96	81	88	102	82	95
25	---	---	---	88	71	79	92	80	84	82	71	76
26	---	---	---	86	74	78	95	82	87	---	---	---
27	87	47	55	92	75	81	97	71	86	---	---	---
28	81	53	67	88	75	80	97	71	89	---	---	---
29	92	66	73	87	75	79	97	78	86	---	---	---
30	90	63	71	87	77	80	89	68	74	---	---	---
31	---	---	---	92	79	84	85	71	75	---	---	---
MONTH	---	---	---	---	---	---	97	68	82	---	---	---

Gaging station at Little Fishing Creek near White Oak, North Carolina.

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC

LOCATION.--Lat 36°12'34", long 77°23'03", 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 sea level. Satellite telemetry at station.

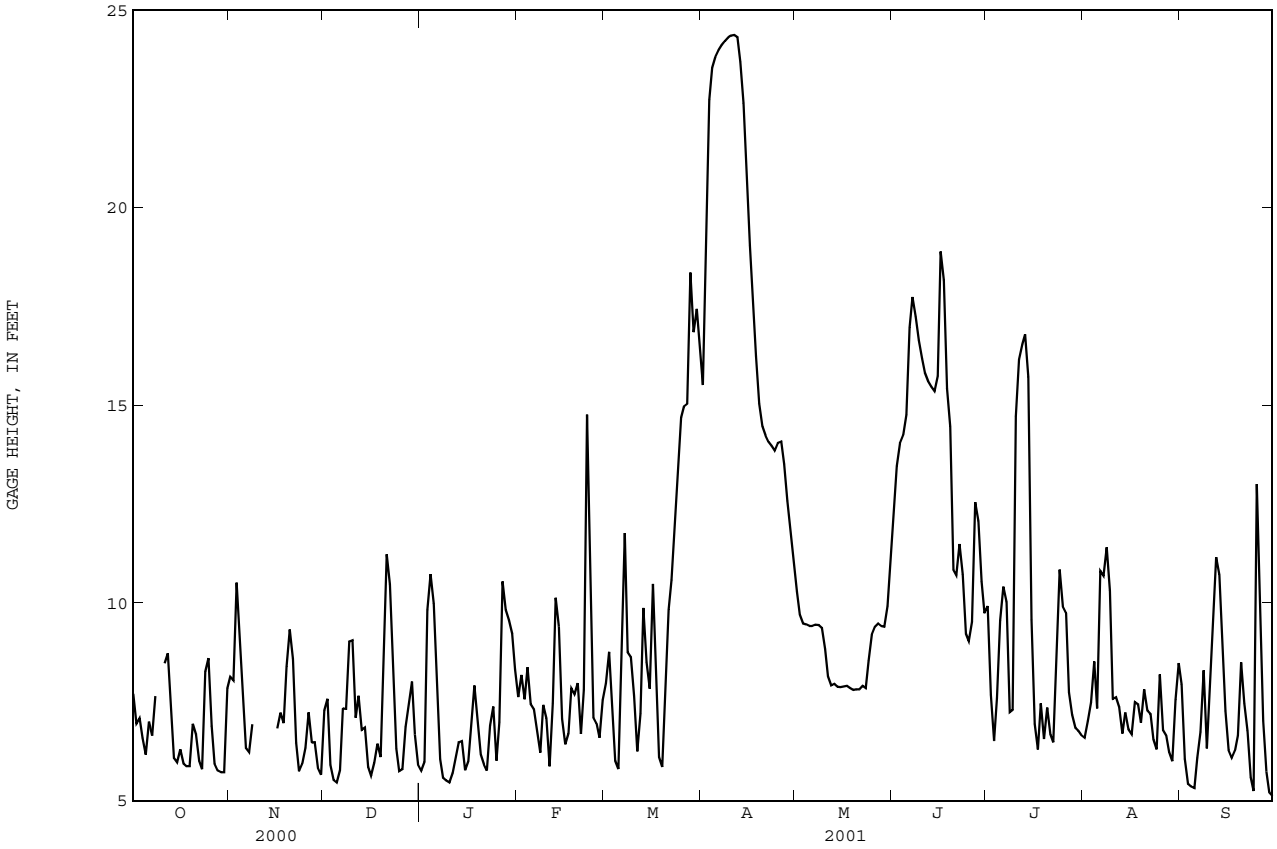
EXTREMES FOR PERIOD OF RECORD.--Maximum, 41.98 ft, Aug. 19, 1940; minimum not determined

EXTREMES FOR CURRENT YEAR.--Maximum, 24.39 ft, Apr. 11; minimum, 5.09 ft, Sep. 24.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.70	8.13	7.28	5.76	7.62	7.97	15.51	10.28	12.28	9.92	6.59	7.94
2	6.94	8.03	7.57	5.98	8.18	8.76	20.09	9.70	13.46	7.67	7.01	6.06
3	7.08	10.51	5.90	9.82	7.56	7.33	22.72	9.48	14.04	6.51	7.48	5.43
4	6.58	8.84	5.52	10.73	8.37	6.01	23.53	9.46	14.24	7.59	8.52	5.35
5	6.16	7.68	5.46	9.98	7.44	5.80	23.81	9.42	14.76	9.56	7.33	5.31
6	7.00	6.33	5.77	7.91	7.31	8.31	23.98	9.42	16.97	10.41	10.81	6.08
7	6.64	6.23	7.33	6.05	6.76	11.76	24.11	9.45	17.74	10.02	10.69	6.74
8	7.64	6.93	7.32	5.58	6.21	8.75	24.21	9.44	17.24	7.23	11.41	8.29
9	---	---	9.02	5.51	7.42	8.63	24.29	9.37	16.64	7.29	10.31	6.32
10	---	---	9.05	5.46	7.08	7.65	24.35	8.83	16.18	14.72	7.57	7.80
11	8.47	---	7.09	5.69	5.86	6.24	24.37	8.14	15.82	16.16	7.61	9.35
12	8.72	---	7.65	6.06	7.46	7.20	24.31	7.91	15.61	16.53	7.36	11.16
13	7.33	---	6.79	6.47	10.13	9.87	23.69	7.95	15.47	16.79	6.70	10.71
14	6.08	---	6.84	6.50	9.40	8.50	22.64	7.88	15.36	15.71	7.23	9.09
15	5.97	---	5.85	5.77	7.07	7.83	21.04	7.87	15.74	9.57	6.80	7.27
16	6.29	6.83	5.63	5.99	6.42	10.48	19.03	7.89	18.89	6.94	6.68	6.28
17	5.94	7.22	5.95	6.81	6.70	8.08	17.77	7.90	18.17	6.29	7.49	6.08
18	5.87	6.96	6.44	7.91	7.85	6.10	16.24	7.85	15.42	7.46	7.43	6.27
19	5.87	8.39	6.10	6.97	7.69	5.85	15.04	7.80	14.46	6.56	6.97	6.65
20	6.94	9.33	8.24	6.16	7.97	8.06	14.47	7.81	10.84	7.35	7.81	8.49
21	6.67	8.58	11.23	5.91	6.68	9.83	14.23	7.81	10.70	6.67	7.28	7.46
22	6.00	6.46	10.47	5.76	7.80	10.58	14.08	7.90	11.49	6.47	7.19	6.76
23	5.79	5.74	8.46	6.90	14.76	11.77	13.97	7.85	10.73	8.61	6.54	5.59
24	8.26	5.93	6.32	7.38	10.35	13.03	13.85	8.54	9.22	10.84	6.29	5.24
25	8.60	6.33	5.74	6.01	7.10	14.69	14.05	9.20	9.04	9.91	8.19	13.00
26	6.89	7.23	5.79	6.98	6.95	14.97	14.08	9.40	9.52	9.75	6.79	9.83
27	5.94	6.47	6.87	10.54	6.59	15.03	13.51	9.48	12.55	7.74	6.65	7.01
28	5.76	6.48	7.46	9.82	7.55	18.35	12.58	9.42	12.07	7.17	6.23	5.73
29	5.72	5.83	8.01	9.56	---	16.85	11.82	9.40	10.54	6.84	5.99	5.21
30	5.72	5.65	6.67	9.22	---	17.44	11.04	9.92	9.74	6.76	7.55	5.12
31	7.84	---	5.91	8.32	---	16.47	---	10.96	---	6.66	8.48	---
MEAN	---	---	7.09	7.21	7.80	10.26	18.61	8.83	13.83	9.28	7.64	7.25
MAX	---	---	11.23	10.73	14.76	18.35	24.37	10.96	18.89	16.79	11.41	13.00
MIN	---	---	5.46	5.46	5.86	5.80	11.04	7.80	9.04	6.29	5.99	5.12

02081000 ROANOKE RIVER NEAR SCOTLAND NECK, NC--Continued



360533077131601 BIG SWASH TRANSECT (SITE #1)

LOCATION.--Lat 36°05'34", long 77°13'15", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, approximately 3.5 mi southwest of Lewiston and 0.5 mi from end of pavement on Weeping Mary Road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1997 to January 2001 (discontinued). Records from May 1997 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

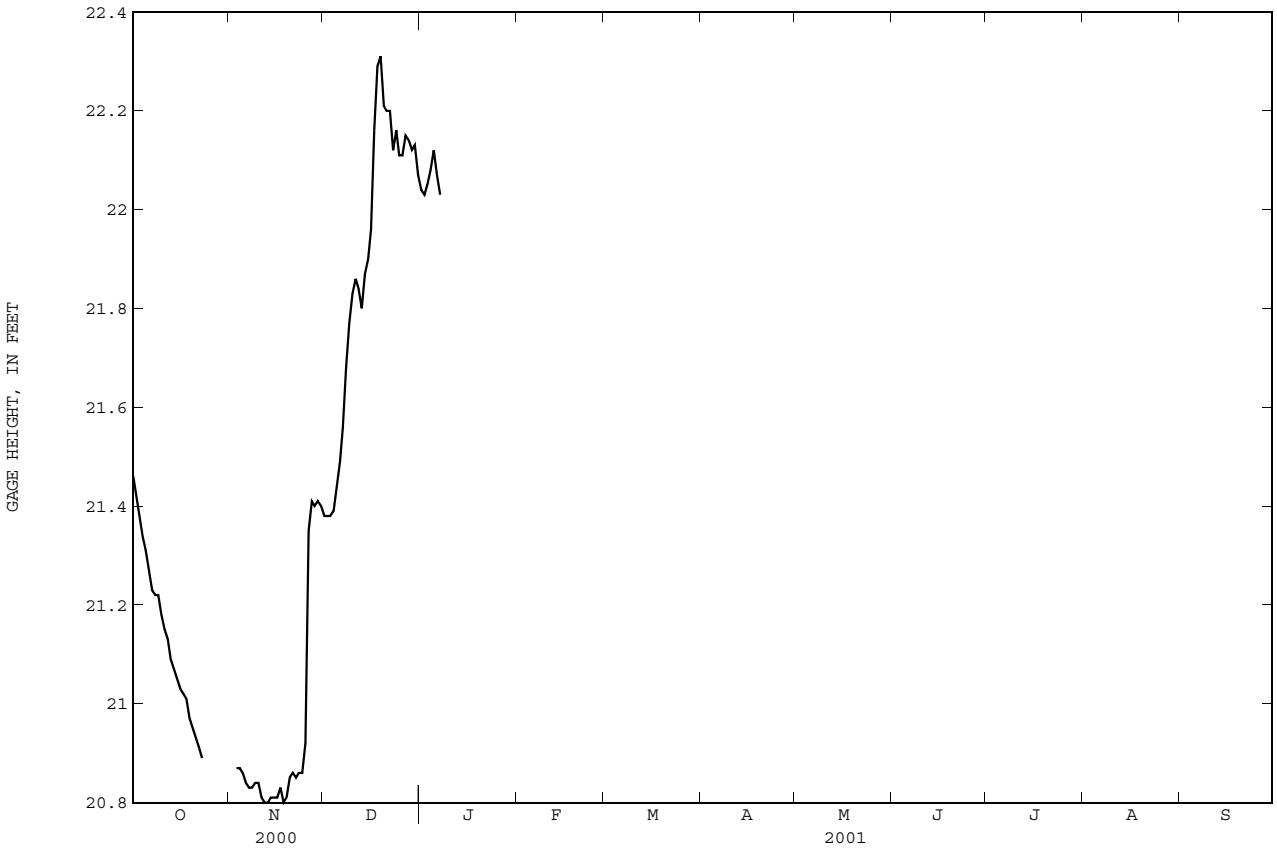
EXTREMES FOR PERIOD OF RECORD.--Maximum, 27.24 ft, Sept. 18, 1999; minimum, 20.35 ft, Aug. 26, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 22.33 ft, Dec. 19; minimum, 20.80 ft, Nov. 12, 13, 14, 15, 16, 17, 18, 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21.46	---	21.38	22.04	---	---	---	---	---	---	---	---
2	21.42	---	21.38	22.03	---	---	---	---	---	---	---	---
3	21.38	20.87	21.38	22.05	---	---	---	---	---	---	---	---
4	21.34	20.87	21.39	22.08	---	---	---	---	---	---	---	---
5	21.31	20.86	21.44	22.12	---	---	---	---	---	---	---	---
6	21.27	20.84	21.49	22.07	---	---	---	---	---	---	---	---
7	21.23	20.83	21.56	22.03	---	---	---	---	---	---	---	---
8	21.22	20.83	21.68	---	---	---	---	---	---	---	---	---
9	21.22	20.84	21.77	---	---	---	---	---	---	---	---	---
10	21.18	20.84	21.83	---	---	---	---	---	---	---	---	---
11	21.15	20.81	21.86	---	---	---	---	---	---	---	---	---
12	21.13	20.80	21.84	---	---	---	---	---	---	---	---	---
13	21.09	20.80	21.80	---	---	---	---	---	---	---	---	---
14	21.07	20.81	21.87	---	---	---	---	---	---	---	---	---
15	21.05	20.81	21.90	---	---	---	---	---	---	---	---	---
16	21.03	20.81	21.96	---	---	---	---	---	---	---	---	---
17	21.02	20.83	22.16	---	---	---	---	---	---	---	---	---
18	21.01	20.80	22.29	---	---	---	---	---	---	---	---	---
19	20.97	20.81	22.31	---	---	---	---	---	---	---	---	---
20	20.95	20.85	22.21	---	---	---	---	---	---	---	---	---
21	20.93	20.86	22.20	---	---	---	---	---	---	---	---	---
22	20.91	20.85	22.20	---	---	---	---	---	---	---	---	---
23	20.89	20.86	22.12	---	---	---	---	---	---	---	---	---
24	---	20.86	22.16	---	---	---	---	---	---	---	---	---
25	---	20.92	22.11	---	---	---	---	---	---	---	---	---
26	---	21.35	22.11	---	---	---	---	---	---	---	---	---
27	---	21.41	22.15	---	---	---	---	---	---	---	---	---
28	---	21.40	22.14	---	---	---	---	---	---	---	---	---
29	---	21.41	22.12	---	---	---	---	---	---	---	---	---
30	---	21.40	22.13	---	---	---	---	---	---	---	---	---
31	---	---	22.07	---	---	---	---	---	---	---	---	---
MEAN	---	---	21.90	---	---	---	---	---	---	---	---	---
MAX	---	---	22.31	---	---	---	---	---	---	---	---	---
MIN	---	---	21.38	---	---	---	---	---	---	---	---	---

360533077131601 BIG SWASH TRANSECT (SITE #1)--Continued



360356077172601 BIG SWASH TRANSECT (SITE #2)

LOCATION.--Lat 36°03'57", long 77°17'25", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, approximately 2.3 mi east of Palmyra and 6.2 mi from end of pavement on Weeping Mary Road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1997 to January 2001 (discontinued). Records from May 1997 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

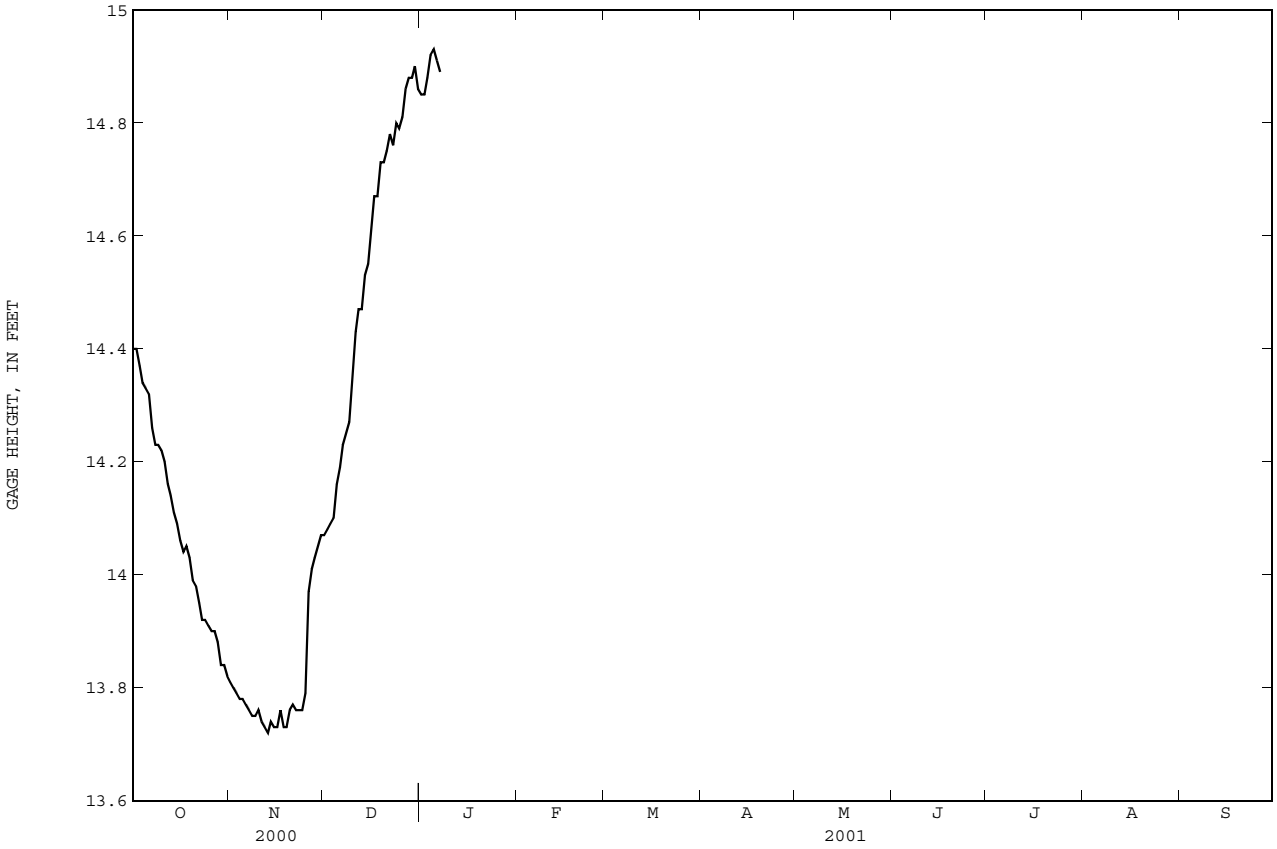
EXTREMES FOR PERIOD OF RECORD.--Maximum, 23.80 ft, Sept. 18, 19, 1999; minimum, 13.14 ft, Aug. 26, 27, 28, 29, 30, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum, 14.95 ft, Jan. 5, 6; minimum, 13.72 ft, Nov. 12, 13, 14, 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14.40	13.81	14.07	14.85	---	---	---	---	---	---	---	---
2	14.40	13.80	14.08	14.85	---	---	---	---	---	---	---	---
3	14.37	13.79	14.09	14.88	---	---	---	---	---	---	---	---
4	14.34	13.78	14.10	14.92	---	---	---	---	---	---	---	---
5	14.33	13.78	14.16	14.93	---	---	---	---	---	---	---	---
6	14.32	13.77	14.19	14.91	---	---	---	---	---	---	---	---
7	14.26	13.76	14.23	14.89	---	---	---	---	---	---	---	---
8	14.23	13.75	14.25	---	---	---	---	---	---	---	---	---
9	14.23	13.75	14.27	---	---	---	---	---	---	---	---	---
10	14.22	13.76	14.35	---	---	---	---	---	---	---	---	---
11	14.20	13.74	14.43	---	---	---	---	---	---	---	---	---
12	14.16	13.73	14.47	---	---	---	---	---	---	---	---	---
13	14.14	13.72	14.47	---	---	---	---	---	---	---	---	---
14	14.11	13.74	14.53	---	---	---	---	---	---	---	---	---
15	14.09	13.73	14.55	---	---	---	---	---	---	---	---	---
16	14.06	13.73	14.61	---	---	---	---	---	---	---	---	---
17	14.04	13.76	14.67	---	---	---	---	---	---	---	---	---
18	14.05	13.73	14.67	---	---	---	---	---	---	---	---	---
19	14.03	13.73	14.73	---	---	---	---	---	---	---	---	---
20	13.99	13.76	14.73	---	---	---	---	---	---	---	---	---
21	13.98	13.77	14.75	---	---	---	---	---	---	---	---	---
22	13.95	13.76	14.78	---	---	---	---	---	---	---	---	---
23	13.92	13.76	14.76	---	---	---	---	---	---	---	---	---
24	13.92	13.76	14.80	---	---	---	---	---	---	---	---	---
25	13.91	13.79	14.79	---	---	---	---	---	---	---	---	---
26	13.90	13.97	14.81	---	---	---	---	---	---	---	---	---
27	13.90	14.01	14.86	---	---	---	---	---	---	---	---	---
28	13.88	14.03	14.88	---	---	---	---	---	---	---	---	---
29	13.84	14.05	14.88	---	---	---	---	---	---	---	---	---
30	13.84	14.07	14.90	---	---	---	---	---	---	---	---	---
31	13.82	---	14.86	---	---	---	---	---	---	---	---	---
MEAN	14.09	13.80	14.54	---	---	---	---	---	---	---	---	---
MAX	14.40	14.07	14.90	---	---	---	---	---	---	---	---	---
MIN	13.82	13.72	14.07	---	---	---	---	---	---	---	---	---

360356077172601 BIG SWASH TRANSECT (SITE #2)--Continued



360347077191401 BIG SWASH TRANSECT (SITE #3)

LOCATION.--Lat 36°03'48", long 77°19'13", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, approximately 1.3 mi southeast of Palmyra and 9.2 mi from end of pavement on Weeping Mary Road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1997 to December 2001 (discontinued). Records from May 1997 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

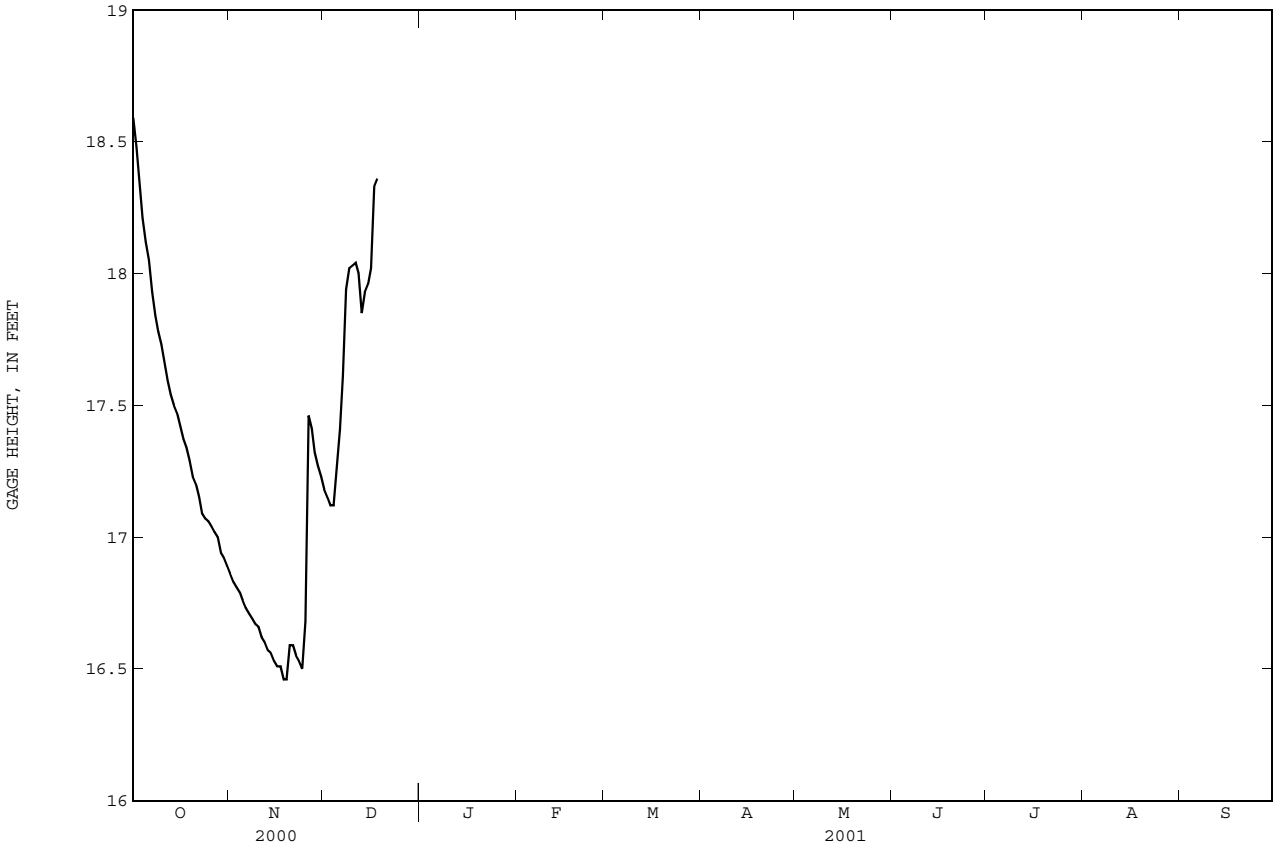
EXTREMES FOR PERIOD OF RECORD.--Maximum, 23.77 ft, Sept. 18, 19, 1999; minimum, 13.03 ft, Dec. 30, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 18.62 ft, Oct. 1; minimum, 16.44 ft, Nov. 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.59	16.86	17.18	---	---	---	---	---	---	---	---	---
2	18.48	16.83	17.15	---	---	---	---	---	---	---	---	---
3	18.33	16.81	17.12	---	---	---	---	---	---	---	---	---
4	18.21	16.79	17.12	---	---	---	---	---	---	---	---	---
5	18.12	16.76	17.26	---	---	---	---	---	---	---	---	---
6	18.05	16.73	17.41	---	---	---	---	---	---	---	---	---
7	17.93	16.71	17.61	---	---	---	---	---	---	---	---	---
8	17.84	16.69	17.94	---	---	---	---	---	---	---	---	---
9	17.78	16.67	18.02	---	---	---	---	---	---	---	---	---
10	17.73	16.66	18.03	---	---	---	---	---	---	---	---	---
11	17.66	16.62	18.04	---	---	---	---	---	---	---	---	---
12	17.59	16.60	18.00	---	---	---	---	---	---	---	---	---
13	17.54	16.57	17.85	---	---	---	---	---	---	---	---	---
14	17.50	16.56	17.93	---	---	---	---	---	---	---	---	---
15	17.47	16.53	17.96	---	---	---	---	---	---	---	---	---
16	17.42	16.51	18.02	---	---	---	---	---	---	---	---	---
17	17.37	16.51	18.33	---	---	---	---	---	---	---	---	---
18	17.34	16.46	18.36	---	---	---	---	---	---	---	---	---
19	17.29	16.46	---	---	---	---	---	---	---	---	---	---
20	17.23	16.59	---	---	---	---	---	---	---	---	---	---
21	17.20	16.59	---	---	---	---	---	---	---	---	---	---
22	17.15	16.55	---	---	---	---	---	---	---	---	---	---
23	17.09	16.53	---	---	---	---	---	---	---	---	---	---
24	17.07	16.50	---	---	---	---	---	---	---	---	---	---
25	17.06	16.68	---	---	---	---	---	---	---	---	---	---
26	17.04	17.46	---	---	---	---	---	---	---	---	---	---
27	17.02	17.41	---	---	---	---	---	---	---	---	---	---
28	17.00	17.32	---	---	---	---	---	---	---	---	---	---
29	16.94	17.27	---	---	---	---	---	---	---	---	---	---
30	16.92	17.23	---	---	---	---	---	---	---	---	---	---
31	16.89	---	---	---	---	---	---	---	---	---	---	---
MEAN	17.51	16.75	---	---	---	---	---	---	---	---	---	---
MAX	18.59	17.46	---	---	---	---	---	---	---	---	---	---
MIN	16.89	16.46	---	---	---	---	---	---	---	---	---	---

360347077191401 BIG SWASH TRANSECT (SITE #3)--Continued



0208102115 ROANOKE RIVER NEAR HILLS FERRY, NC

LOCATION.--Lat 36°03'11", long 77°18'45", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 0.8 mi east of Palmyra on private dirt road and 75 river mi from mouth.

DRAINAGE AREA.--8,780 mi^2.

PERIOD OF RECORD.--November 1996 to January 2001 (discontinued). Records from November 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

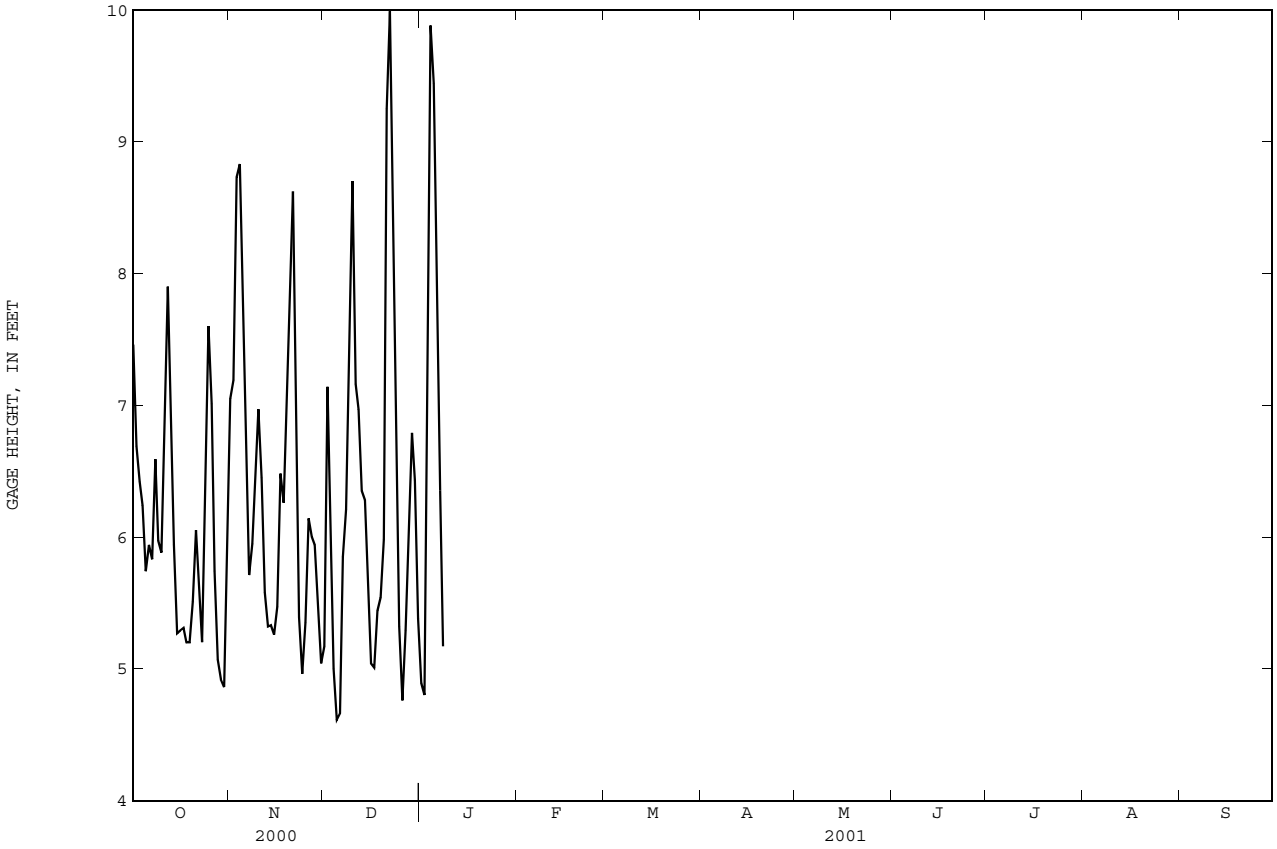
EXTREMES FOR PERIOD OF RECORD.--Maximum, 24.52 ft, Sept. 18, 19, 1999; minimum, 2.95 ft, Nov. 4, 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 10.27 ft, Dec. 22; minimum, 4.57 ft, Dec. 5, 6.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.46	7.05	5.17	4.89	---	---	---	---	---	---	---	---
2	6.69	7.19	7.14	4.80	---	---	---	---	---	---	---	---
3	6.42	8.73	5.99	6.44	---	---	---	---	---	---	---	---
4	6.24	8.83	5.00	9.88	---	---	---	---	---	---	---	---
5	5.74	7.88	4.61	9.44	---	---	---	---	---	---	---	---
6	5.94	6.44	4.66	8.53	---	---	---	---	---	---	---	---
7	5.83	5.71	5.85	6.35	---	---	---	---	---	---	---	---
8	6.59	5.95	6.21	5.17	---	---	---	---	---	---	---	---
9	5.97	6.44	7.36	---	---	---	---	---	---	---	---	---
10	5.88	6.97	8.70	---	---	---	---	---	---	---	---	---
11	6.68	6.45	7.16	---	---	---	---	---	---	---	---	---
12	7.90	5.58	6.97	---	---	---	---	---	---	---	---	---
13	7.25	5.32	6.35	---	---	---	---	---	---	---	---	---
14	5.94	5.33	6.28	---	---	---	---	---	---	---	---	---
15	5.27	5.26	5.65	---	---	---	---	---	---	---	---	---
16	5.29	5.47	5.04	---	---	---	---	---	---	---	---	---
17	5.31	6.48	5.01	---	---	---	---	---	---	---	---	---
18	5.20	6.26	5.44	---	---	---	---	---	---	---	---	---
19	5.20	6.96	5.54	---	---	---	---	---	---	---	---	---
20	5.51	7.72	5.98	---	---	---	---	---	---	---	---	---
21	6.05	8.62	9.25	---	---	---	---	---	---	---	---	---
22	5.62	6.74	9.99	---	---	---	---	---	---	---	---	---
23	5.20	5.39	8.97	---	---	---	---	---	---	---	---	---
24	5.96	4.96	6.68	---	---	---	---	---	---	---	---	---
25	7.60	5.35	5.32	---	---	---	---	---	---	---	---	---
26	7.01	6.14	4.76	---	---	---	---	---	---	---	---	---
27	5.74	6.00	5.29	---	---	---	---	---	---	---	---	---
28	5.07	5.94	6.19	---	---	---	---	---	---	---	---	---
29	4.92	5.47	6.79	---	---	---	---	---	---	---	---	---
30	4.86	5.04	6.43	---	---	---	---	---	---	---	---	---
31	5.76	---	5.38	---	---	---	---	---	---	---	---	---
MEAN	6.00	6.39	6.30	---	---	---	---	---	---	---	---	---
MAX	7.90	8.83	9.99	---	---	---	---	---	---	---	---	---
MIN	4.86	4.96	4.61	---	---	---	---	---	---	---	---	---

0208102115 ROANOKE RIVER NEAR HILLS FERRY, NC--Continued



02081022 ROANOKE RIVER NEAR OAK CITY, NC

LOCATION.--Lat 36°00'50", 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.

GAGE-HEIGHT RECORDS

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

GAGE.--Water stage recorder. Datum of gage is sea level. Satellite telemetry at station.

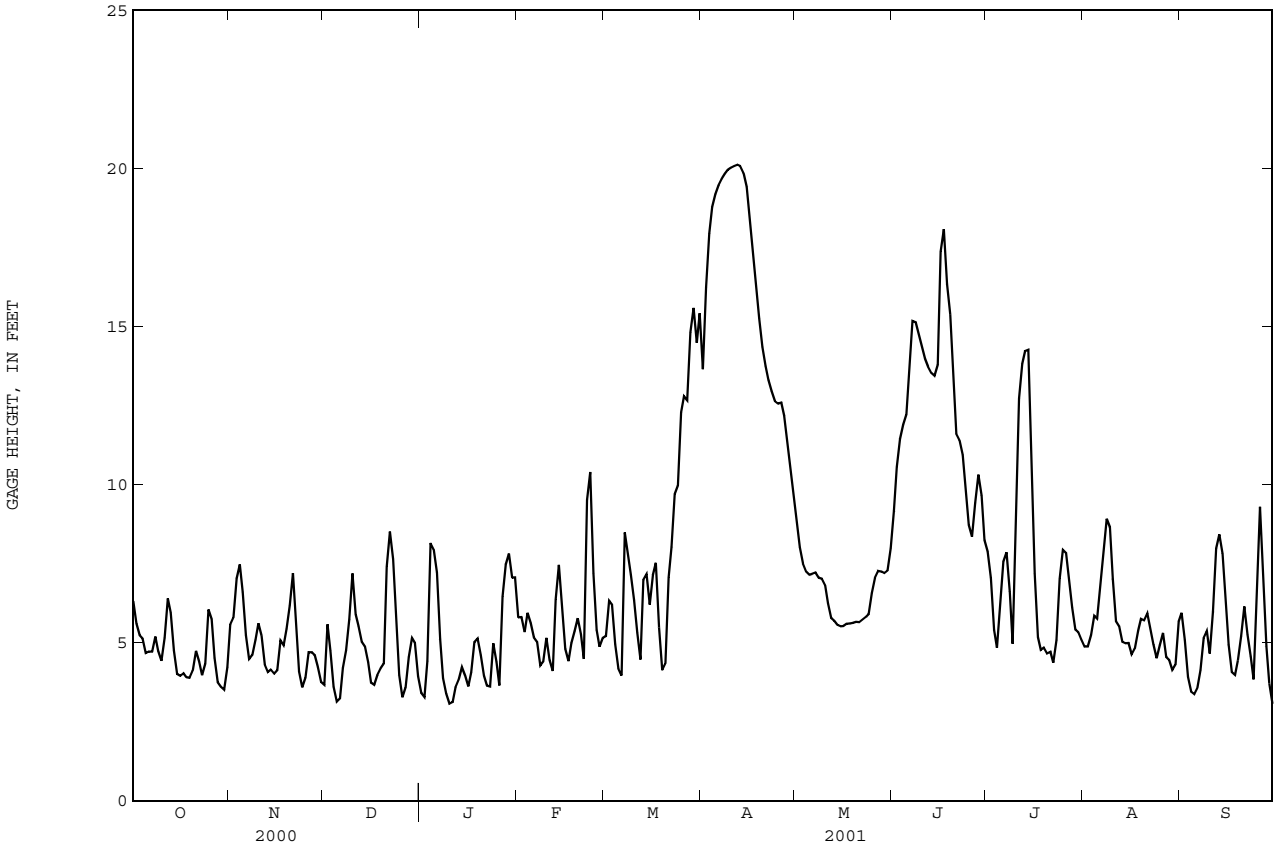
EXTREMES FOR PERIOD OF RECORD.--Maximum, 22.07 ft, Sept. 19, 1999; minimum, 2.31 ft, Nov. 5, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 20.12 ft, Apr. 12; minimum, 2.86 ft, Sept. 30.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.31	5.56	3.66	3.41	5.79	5.20	13.64	8.78	9.16	7.87	4.87	5.94
2	5.59	5.78	5.57	3.27	5.80	6.32	16.23	8.01	10.55	7.04	4.87	5.09
3	5.23	7.02	4.74	4.41	5.33	6.20	17.94	7.49	11.43	5.40	5.23	3.91
4	5.13	7.46	3.60	8.14	5.94	4.94	18.77	7.24	11.88	4.83	5.84	3.45
5	4.66	6.59	3.13	7.94	5.61	4.18	19.17	7.14	12.21	6.19	5.75	3.37
6	4.71	5.23	3.23	7.21	5.16	3.95	19.45	7.17	13.66	7.55	6.86	3.55
7	4.71	4.47	4.20	5.11	5.01	8.48	19.66	7.21	15.16	7.85	7.86	4.12
8	5.19	4.60	4.75	3.87	4.27	7.83	19.82	7.05	15.12	6.61	8.91	5.14
9	4.72	5.09	5.73	3.38	4.39	7.14	19.94	7.02	14.72	4.95	8.65	5.36
10	4.42	5.60	7.18	3.06	5.15	6.34	20.01	6.82	14.32	8.61	7.02	4.65
11	5.15	5.21	5.89	3.11	4.44	5.31	20.06	6.24	13.98	12.71	5.67	5.98
12	6.39	4.31	5.51	3.58	4.09	4.46	20.10	5.77	13.72	13.81	5.51	7.97
13	5.95	4.06	5.03	3.82	6.36	6.98	20.06	5.68	13.52	14.21	5.01	8.41
14	4.74	4.13	4.87	4.22	7.45	7.16	19.85	5.55	13.43	14.25	4.97	7.81
15	4.00	4.01	4.38	3.95	6.12	6.20	19.40	5.51	13.78	10.62	4.98	6.36
16	3.94	4.12	3.73	3.61	4.79	7.14	18.50	5.52	17.36	7.17	4.62	4.93
17	4.02	5.07	3.66	4.05	4.41	7.51	17.50	5.59	18.07	5.17	4.81	4.06
18	3.90	4.91	3.97	5.02	4.97	5.48	16.43	5.60	16.34	4.76	5.36	3.97
19	3.88	5.43	4.18	5.13	5.35	4.12	15.24	5.62	15.38	4.83	5.74	4.44
20	4.11	6.17	4.33	4.60	5.76	4.34	14.34	5.65	13.11	4.65	5.69	5.20
21	4.73	7.19	7.39	3.94	5.26	7.06	13.74	5.64	11.60	4.70	5.92	6.14
22	4.39	5.47	8.51	3.64	4.48	8.02	13.29	5.72	11.40	4.36	5.39	5.25
23	3.96	4.08	7.64	3.61	9.51	9.69	12.94	5.80	10.93	5.08	4.93	4.56
24	4.33	3.58	5.43	4.97	10.39	9.96	12.63	5.90	9.78	7.02	4.50	3.83
25	6.04	3.88	3.97	4.39	7.18	12.28	12.55	6.56	8.71	7.93	4.91	6.38
26	5.73	4.69	3.26	3.64	5.40	12.79	12.58	7.05	8.34	7.83	5.30	9.28
27	4.51	4.69	3.58	6.45	4.86	12.65	12.17	7.26	9.42	6.97	4.54	6.76
28	3.74	4.60	4.54	7.46	5.14	14.81	11.38	7.24	10.31	6.11	4.45	4.88
29	3.60	4.22	5.15	7.81	---	15.58	10.51	7.19	9.65	5.41	4.12	3.71
30	3.51	3.75	4.99	7.05	---	14.48	9.63	7.27	8.23	5.32	4.30	3.06
31	4.22	---	3.93	7.06	---	15.41	---	7.98	---	5.10	5.66	---
MEAN	4.69	5.03	4.83	4.87	5.66	8.13	16.25	6.59	12.51	7.26	5.56	5.25
MAX	6.39	7.46	8.51	8.14	10.39	15.58	20.10	8.78	18.07	14.25	8.91	9.28
MIN	3.51	3.58	3.13	3.06	4.09	3.95	9.63	5.51	8.23	4.36	4.12	3.06

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued



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 U.S. Fish and Wildlife Service 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	194, March 1, 2001	52, September 17, 1999
pH, standard units	7.8, January 4, 5, 2001	6.1, September 17, 1999
WATER TEMPERATURE, °C	30.7, August 2, 1999	2.1, January 3, 2001
DISSOLVED OXYGEN, mg/L	15.5, January 6, 7, 1999	3.5, September 23, 24 1999
DISSOLVED OXYGEN, PERCENT SATURATION,%	123, January 6,7, 1999	38, September 23, 1999

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	194, March 1	108, July 28
pH, standard units	7.8, January 4, 5	6.2, January 9
WATER TEMPERATURE, °C	29.9, August 11	2.1, January 3
DISSOLVED OXYGEN, mg/L	12.3, January 3, 4, 5, 29	4.0, June 18, 19
DISSOLVED OXYGEN, PERCENT SATURATION,%	98, January 30	47, June 19

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	116	110	113	134	124	131	141	132	138	134	118	123
2	117	109	113	125	116	120	141	138	140	135	131	134
3	118	110	113	131	117	124	140	116	126	135	134	134
4	123	118	120	131	114	120	133	115	121	134	119	126
5	---	---	---	124	114	118	142	133	138	126	115	118
6	139	131	134	132	117	127	138	135	135	132	119	126
7	142	139	141	132	117	123	136	134	135	132	122	129
8	145	125	134	133	129	131	140	125	136	142	120	125
9	145	121	138	153	129	133	138	123	128	155	142	145
10	138	118	125	138	124	130	137	120	127	---	---	---
11	137	119	134	132	123	128	133	117	122	143	141	142
12	137	119	127	132	121	125	132	120	126	154	143	145
13	138	115	125	136	127	134	138	127	135	157	144	146
14	141	115	130	137	133	134	135	125	128	155	135	144
15	136	123	130	133	129	130	143	135	139	160	136	142
16	143	136	142	132	130	131	139	131	135	153	128	134
17	142	135	138	134	132	133	147	137	143	157	137	142
18	137	128	134	133	121	127	148	143	146	168	125	139
19	139	128	135	132	123	128	147	134	140	146	125	135
20	141	134	138	134	121	128	136	128	134	133	125	129
21	139	134	137	130	117	123	142	124	134	139	133	136
22	139	124	130	123	115	118	133	124	128	137	131	134
23	140	129	136	133	115	121	132	124	129	141	132	134
24	141	132	138	138	133	136	137	130	134	132	129	130
25	136	121	132	135	131	133	135	127	129	133	119	128
26	131	115	120	133	126	131	144	135	142	133	117	121
27	131	120	124	130	125	127	144	138	141	137	132	135
28	140	124	134	129	120	124	138	124	133	132	118	122
29	141	137	140	133	126	132	135	117	122	129	119	123
30	138	136	137	133	123	127	119	116	117	138	121	125
31	137	134	136	---	---	---	125	117	117	132	125	129
MONTH	---	---	---	153	114	128	148	115	132	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	142	127	135	194	141	167	123	120	121	---	---	---
2	154	125	137	159	141	149	126	120	122	---	---	---
3	146	133	138	153	136	142	122	112	118	---	---	---
4	147	129	136	161	137	151	112	110	111	---	---	---
5	167	129	141	152	137	142	112	109	111	---	---	---
6	150	129	138	155	142	150	112	110	111	---	---	---
7	154	130	141	146	123	139	113	111	112	---	---	---
8	154	134	143	123	121	121	113	111	112	149	146	147
9	156	134	143	140	122	130	113	111	112	148	145	146
10	163	140	152	148	127	137	112	109	111	---	---	---
11	155	141	148	142	128	133	110	109	109	---	---	---
12	150	134	141	151	129	141	111	109	110	---	---	---
13	193	136	151	149	129	144	111	110	111	---	---	---
14	155	131	141	145	122	128	111	111	111	---	---	---
15	162	129	138	143	125	133	112	111	112	---	---	---
16	157	131	141	147	130	136	115	112	113	---	---	---
17	164	146	153	144	133	138	120	115	118	---	---	---
18	160	143	151	156	132	142	122	120	121	---	---	---
19	154	130	145	140	131	134	124	121	123	---	---	---
20	150	128	138	147	140	145	124	123	124	---	---	---
21	152	129	144	146	136	142	125	123	124	---	---	---
22	162	128	143	137	126	130	125	123	124	---	---	---
23	155	132	144	131	127	128	123	122	123	---	---	---
24	152	128	135	132	124	127	129	122	125	---	---	---
25	135	128	132	132	126	129	129	128	129	---	---	---
26	165	129	141	128	124	126	129	128	128	---	---	---
27	176	147	159	128	121	125	130	128	129	---	---	---
28	159	136	147	127	121	124	133	129	130	---	---	---
29	---	---	---	125	121	123	133	131	131	---	---	---
30	---	---	---	122	120	121	133	132	133	---	---	---
31	---	---	---	128	122	124	---	---	---	---	---	---
MONTH	193	125	143	194	120	136	133	109	119	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	129	127	128	130	111	122	119	117	118	133	124	127
2	129	127	128	128	114	121	121	117	119	138	123	128
3	128	124	126	119	112	116	127	120	125	137	121	126
4	127	126	126	127	118	123	126	121	124	145	130	140
5	128	126	127	128	120	125	126	119	123	146	144	145
6	128	124	126	124	111	117	125	115	120	147	145	146
7	124	113	117	123	111	116	124	112	118	148	145	146
8	126	113	119	125	112	119	129	113	120	147	131	140
9	132	126	130	118	115	116	128	116	119	142	128	135
10	140	132	136	130	113	125	132	116	124	133	119	123
11	141	138	140	122	110	113	134	117	122	144	128	140
12	145	138	140	123	111	114	137	133	136	134	120	125
13	148	145	147	123	111	114	133	125	129	133	115	119
14	154	148	150	122	112	115	135	125	130	130	119	124
15	155	150	153	123	113	115	135	132	133	132	119	125
16	150	122	135	116	113	114	136	126	131	138	124	129
17	122	111	113	133	116	128	142	136	139	139	130	135
18	116	111	113	133	131	132	143	133	141	139	138	139
19	---	---	---	134	130	132	133	114	122	139	138	138
20	---	---	---	134	122	127	134	120	127	140	130	137
21	---	---	---	136	133	135	135	133	134	140	128	134
22	---	---	---	135	125	129	135	118	126	129	124	128
23	---	---	---	135	130	133	141	130	134	143	123	134
24	---	---	---	131	118	127	142	126	134	147	128	140
25	---	---	---	125	112	118	144	140	142	146	128	139
26	120	109	115	119	111	114	141	126	138	141	117	121
27	121	111	115	118	109	112	130	122	123	118	116	117
28	124	110	115	116	108	111	142	130	139	138	118	126
29	126	111	117	119	116	117	141	126	134	140	125	131
30	124	111	117	119	115	117	140	130	137	143	135	139
31	---	---	---	120	117	118	141	128	138	---	---	---
MONTH	---	---	---	136	108	120	144	112	129	148	115	133

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	6.8	6.9	7.3	7.2	7.2	7.3	7.3	7.3	7.6	7.5	7.6
2	6.9	6.7	6.8	7.3	7.2	7.2	7.4	7.3	7.3	7.6	7.5	7.6
3	7.0	6.8	6.9	7.3	7.2	7.2	7.4	7.3	7.4	7.7	7.5	7.6
4	7.1	6.7	6.9	7.2	7.2	7.2	7.4	7.4	7.4	7.8	7.6	7.7
5	---	---	---	7.3	7.2	7.3	7.4	7.3	7.4	7.8	7.6	7.7
6	7.1	7.0	7.0	7.4	7.3	7.3	7.3	7.3	7.3	7.6	7.2	7.4
7	7.1	7.0	7.0	7.3	7.3	7.3	7.3	7.3	7.3	7.2	6.9	7.0
8	7.1	7.0	7.1	7.3	7.3	7.3	7.4	7.3	7.3	6.9	6.6	6.8
9	7.1	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.4	6.6	6.2	6.5
10	7.1	7.1	7.1	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---
11	7.1	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.4	---	---	---
12	7.2	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.4	---	---	---
13	7.2	7.1	7.1	7.3	7.3	7.3	7.3	7.3	7.3	---	---	---
14	7.2	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.3	---	---	---
15	7.2	7.1	7.1	7.3	7.3	7.3	7.4	7.3	7.4	---	---	---
16	7.2	7.2	7.2	7.3	7.2	7.3	7.4	7.4	7.4	---	---	---
17	7.2	7.2	7.2	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---
18	7.2	7.2	7.2	7.3	7.2	7.3	7.4	7.3	7.3	---	---	---
19	7.2	7.1	7.2	7.3	7.2	7.3	7.3	7.2	7.3	---	---	---
20	7.2	7.2	7.2	7.3	7.3	7.3	7.3	7.2	7.3	---	---	---
21	7.2	7.2	7.2	7.3	7.2	7.3	7.4	7.3	7.4	---	---	---
22	7.2	7.2	7.2	7.3	7.2	7.3	7.6	7.4	7.4	---	---	---
23	7.2	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4	---	---	---
24	7.2	7.2	7.2	7.3	7.3	7.3	7.4	7.4	7.4	---	---	---
25	7.2	7.2	7.2	7.4	7.3	7.3	7.4	7.4	7.4	---	---	---
26	7.2	7.2	7.2	7.4	7.3	7.4	7.5	7.4	7.4	---	---	---
27	7.2	7.2	7.2	7.4	7.3	7.3	7.5	7.3	7.4	---	---	---
28	7.2	7.2	7.2	7.3	7.3	7.3	7.5	7.4	7.5	---	---	---
29	7.2	7.2	7.2	7.3	7.3	7.3	7.6	7.5	7.6	---	---	---
30	7.2	7.2	7.2	7.3	7.3	7.3	7.7	7.6	7.6	---	---	---
31	7.2	7.2	7.2	---	---	---	7.7	7.6	7.6	---	---	---
MONTH	---	---	---	7.4	7.2	7.3	7.7	7.2	7.4	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	7.2	7.2	7.1	7.0	7.0	6.9	6.9	6.9	7.0	7.0	7.0
2	7.3	7.1	7.2	7.2	7.0	7.1	6.9	6.8	6.9	7.1	6.9	7.0
3	7.1	7.0	7.1	7.2	7.1	7.2	6.9	6.8	6.8	7.1	7.0	7.0
4	7.2	7.0	7.1	7.2	7.1	7.2	6.9	6.8	6.8	7.0	7.0	7.0
5	7.2	7.1	7.1	7.2	7.2	7.2	6.8	6.7	6.8	7.2	7.0	7.0
6	7.2	7.0	7.1	7.2	7.1	7.2	6.8	6.7	6.8	7.2	7.1	7.1
7	7.0	6.8	6.9	7.3	7.1	7.3	6.7	6.7	6.7	7.2	7.1	7.1
8	6.9	6.9	6.9	7.3	7.3	7.3	6.7	6.6	6.7	7.2	7.1	7.2
9	7.0	6.9	7.0	7.3	7.2	7.3	6.7	6.6	6.7	7.2	7.0	7.1
10	7.1	7.0	7.0	7.3	7.2	7.2	6.7	6.6	6.7	7.1	7.0	7.1
11	7.1	7.0	7.1	7.3	7.2	7.2	6.7	6.6	6.7	7.1	7.0	7.1
12	7.2	7.1	7.1	7.3	7.2	7.3	6.8	6.7	6.7	7.1	7.0	7.0
13	7.1	7.0	7.1	7.3	7.2	7.2	6.7	6.6	6.7	7.0	7.0	7.0
14	7.1	7.0	7.1	7.2	7.1	7.1	6.7	6.7	6.7	7.0	6.9	6.9
15	7.1	6.9	7.0	7.2	7.1	7.1	6.7	6.7	6.7	7.0	6.9	7.0
16	6.9	6.6	6.7	7.2	7.1	7.1	6.7	6.7	6.7	7.0	7.0	7.0
17	6.6	6.5	6.5	7.2	7.2	7.2	6.8	6.7	6.7	7.1	7.0	7.0
18	6.5	6.4	6.4	7.2	7.1	7.2	6.8	6.6	6.8	7.1	7.0	7.1
19	6.6	6.4	6.5	7.2	7.1	7.2	6.6	6.5	6.5	7.1	7.0	7.0
20	6.7	6.6	6.7	7.3	7.1	7.2	6.7	6.5	6.6	7.1	7.0	7.1
21	6.7	6.6	6.7	7.3	7.2	7.2	6.8	6.7	6.7	7.1	7.0	7.1
22	6.9	6.7	6.8	7.3	7.1	7.2	6.8	6.7	6.8	7.1	6.9	7.0
23	7.0	6.8	6.9	7.2	7.1	7.1	6.8	6.7	6.7	7.1	6.9	7.0
24	6.9	6.8	6.9	7.1	7.1	7.1	6.8	6.7	6.8	7.0	6.9	7.0
25	6.9	6.8	6.9	7.1	6.9	7.0	6.8	6.7	6.7	7.0	6.9	7.0
26	6.9	6.9	6.9	7.1	6.9	7.0	6.8	6.7	6.8	6.9	6.9	6.9
27	6.9	6.9	6.9	7.0	7.0	7.0	6.8	6.7	6.8	7.0	6.9	7.0
28	7.0	6.9	7.0	7.0	6.9	7.0	6.8	6.7	6.8	7.0	7.0	7.0
29	7.1	7.0	7.0	6.9	6.9	6.9	7.0	6.7	6.9	7.1	7.0	7.0
30	7.0	7.0	7.0	6.9	6.9	6.9	7.1	7.0	7.0	7.2	7.0	7.1
31	---	---	---	6.9	6.9	6.9	7.1	7.0	7.1	---	---	---
MONTH	7.3	6.4	6.9	7.3	6.9	7.1	7.1	6.5	6.8	7.2	6.9	7.0

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.6	20.9	21.1	16.3	15.4	15.8	9.2	8.7	9.0	3.2	2.6	2.9
2	21.3	20.8	21.1	16.2	15.7	15.9	8.7	8.2	8.5	2.9	2.4	2.6
3	22.1	21.0	21.5	16.2	15.4	15.8	8.2	6.6	7.4	2.8	2.1	2.5
4	22.6	21.5	22.0	16.7	15.8	16.3	6.6	5.4	6.1	2.8	2.4	2.6
5	---	---	---	16.4	16.0	16.2	5.8	5.0	5.4	2.9	2.5	2.7
6	24.1	22.7	23.4	16.4	15.5	15.9	5.8	5.2	5.5	3.1	2.2	2.7
7	23.5	22.6	23.1	15.6	15.2	15.4	6.8	5.7	6.2	3.3	2.7	3.0
8	22.7	20.7	21.7	15.8	15.1	15.4	7.4	6.5	6.9	3.9	3.3	3.6
9	20.7	18.9	19.7	17.0	15.6	16.4	7.5	7.2	7.3	4.2	3.7	3.9
10	18.9	17.3	18.1	17.4	17.0	17.2	7.4	7.1	7.3	---	---	---
11	18.2	17.1	17.6	17.1	16.1	16.4	7.3	7.1	7.2	4.1	3.1	3.6
12	18.8	17.5	18.2	16.1	15.0	15.5	7.7	7.3	7.5	4.6	3.9	4.2
13	18.7	17.7	18.3	15.1	14.5	14.8	7.4	7.1	7.3	5.3	4.3	4.8
14	18.5	18.1	18.3	14.9	14.2	14.6	7.6	7.4	7.5	5.9	5.0	5.5
15	19.0	18.1	18.5	14.2	13.2	13.8	7.6	6.9	7.3	6.0	5.5	5.7
16	19.4	18.1	18.7	13.3	12.8	13.0	7.7	7.0	7.5	6.5	5.6	6.0
17	19.5	18.6	19.0	12.9	12.7	12.8	8.8	7.7	8.4	6.4	5.7	6.1
18	19.9	19.0	19.4	12.9	12.4	12.6	8.4	7.6	8.1	6.2	5.6	5.9
19	19.6	18.8	19.1	12.5	11.7	12.1	7.8	7.4	7.6	6.5	5.5	5.9
20	19.1	18.3	18.7	11.7	11.3	11.5	7.6	5.9	6.7	6.8	6.5	6.6
21	18.7	18.1	18.4	11.5	10.7	11.0	6.3	5.7	5.9	6.5	5.6	6.1
22	19.1	18.5	18.8	10.8	9.7	10.2	6.4	5.9	6.1	5.8	5.1	5.5
23	19.3	18.4	18.8	9.7	8.5	9.2	5.9	5.4	5.6	5.2	4.7	5.0
24	18.8	17.9	18.3	8.6	8.1	8.4	5.4	4.7	5.0	5.0	4.3	4.6
25	18.5	17.9	18.2	9.1	8.0	8.4	4.7	3.5	4.2	5.1	4.7	4.9
26	18.6	17.8	18.1	9.8	9.1	9.6	3.5	2.8	3.2	5.2	4.5	4.8
27	18.7	18.2	18.5	10.2	9.8	10.0	4.1	3.2	3.6	4.9	4.5	4.7
28	19.0	18.2	18.6	10.4	9.9	10.1	4.3	3.8	4.0	5.3	4.6	4.9
29	18.4	17.2	17.9	10.1	9.7	9.9	4.4	4.0	4.2	5.5	4.6	4.9
30	17.2	16.1	16.8	9.8	9.2	9.6	4.4	3.7	4.0	6.5	4.9	5.5
31	16.1	15.5	15.8	---	---	---	3.7	3.0	3.3	7.1	6.1	6.6
MONTH	---	---	---	17.4	8.0	13.1	9.2	2.8	6.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.9	6.4	6.7	9.7	9.0	9.3	12.4	11.9	12.1	18.5	16.7	17.6
2	6.8	6.5	6.6	9.4	8.8	9.0	12.2	11.2	11.7	19.4	17.4	18.3
3	6.6	5.6	5.9	9.3	8.4	8.9	12.0	11.5	11.7	20.3	18.2	19.2
4	5.9	5.5	5.6	9.3	9.1	9.2	11.9	11.2	11.4	20.7	18.9	19.9
5	6.2	5.3	5.8	9.7	9.0	9.4	11.9	11.3	11.6	21.0	19.2	20.1
6	6.4	5.9	6.2	9.0	7.8	8.4	12.5	11.6	12.0	20.9	19.5	20.0
7	7.0	6.3	6.7	8.0	7.3	7.7	13.3	12.1	12.6	20.2	18.4	19.2
8	7.5	6.7	7.0	8.5	7.8	8.1	13.8	12.9	13.3	19.6	18.1	18.8
9	8.7	7.1	7.9	8.6	8.0	8.3	14.7	13.3	13.9	20.7	18.3	19.4
10	8.8	8.4	8.7	8.9	7.8	8.4	14.9	14.5	14.7	21.2	19.3	20.2
11	8.8	7.7	8.3	9.2	8.3	8.8	14.8	14.5	14.6	21.0	19.8	20.4
12	8.2	7.6	7.9	9.9	8.9	9.5	15.2	13.8	14.4	21.7	20.4	21.0
13	7.8	7.0	7.4	11.4	9.7	10.5	15.2	14.8	15.0	21.9	21.0	21.3
14	7.9	7.1	7.5	11.1	10.1	10.6	15.5	14.8	15.1	21.1	20.1	20.6
15	9.1	7.9	8.5	11.4	10.8	11.1	16.2	15.5	15.9	20.8	19.9	20.4
16	9.6	9.0	9.3	11.3	10.5	10.9	16.5	16.2	16.3	20.3	19.3	19.9
17	10.2	9.5	9.8	11.2	10.2	10.7	16.5	15.7	16.2	20.1	19.3	19.5
18	9.5	8.3	8.9	11.3	10.6	11.0	15.7	14.5	15.1	20.1	19.3	19.6
19	8.3	7.6	7.9	12.1	10.9	11.5	14.6	14.1	14.4	21.3	19.8	20.5
20	8.3	7.3	7.7	11.5	10.7	11.2	15.0	14.4	14.7	22.4	21.3	21.8
21	9.2	8.2	8.7	11.3	10.3	10.7	15.5	14.5	15.0	22.5	22.1	22.2
22	9.2	7.8	8.6	11.4	10.3	10.9	16.1	15.1	15.7	22.3	21.7	22.0
23	8.0	7.3	7.6	12.2	11.2	11.6	17.1	15.9	16.6	22.5	21.4	22.0
24	7.9	7.4	7.6	12.4	11.1	11.7	18.2	16.9	17.6	23.6	22.2	22.8
25	8.5	7.4	7.9	11.9	11.1	11.5	18.3	17.3	17.9	24.2	22.5	23.4
26	9.9	8.5	9.1	11.5	10.9	11.2	17.4	16.8	17.2	23.4	22.2	22.7
27	10.3	9.2	9.7	11.1	10.7	10.9	16.9	16.2	16.6	23.3	21.6	22.4
28	10.0	9.6	9.8	11.1	10.7	10.9	17.4	16.6	17.0	22.5	22.0	22.2
29	---	---	---	11.0	10.5	10.7	17.9	16.6	17.3	22.4	21.6	21.9
30	---	---	---	11.2	10.9	11.1	18.4	17.1	17.7	22.8	21.7	22.2
31	---	---	---	11.9	11.1	11.5	---	---	---	23.4	22.1	22.7
MONTH	10.3	5.3	7.8	12.4	7.3	10.2	18.4	11.2	14.8	24.2	16.7	20.8

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	22.3	22.8	27.9	26.5	27.4	26.0	24.9	25.4	28.1	27.1	27.4
2	22.7	22.0	22.4	27.1	26.4	26.7	26.6	25.6	26.1	27.6	26.8	27.2
3	22.6	21.9	22.2	26.8	26.2	26.5	26.7	26.1	26.4	27.6	26.9	27.3
4	23.2	22.5	22.8	27.1	25.9	26.5	27.1	26.1	26.6	27.2	26.7	27.0
5	23.4	22.7	23.1	27.6	26.6	27.0	27.6	26.0	26.8	27.3	26.3	26.8
6	23.4	22.9	23.1	27.9	27.2	27.5	27.9	26.8	27.3	27.3	26.1	26.7
7	23.5	22.6	23.0	27.9	26.9	27.4	27.7	26.8	27.3	27.1	26.2	26.7
8	23.9	22.8	23.5	27.4	26.7	27.0	28.1	27.4	27.6	27.1	26.3	26.7
9	24.3	23.6	23.9	27.1	26.1	26.6	29.0	27.2	28.1	27.1	26.3	26.7
10	23.6	23.4	23.5	28.0	26.6	27.3	29.3	28.6	29.0	26.8	25.9	26.4
11	24.1	23.6	23.9	27.5	27.0	27.3	29.9	28.9	29.3	27.1	26.5	26.8
12	24.2	23.7	23.9	27.4	26.8	27.1	29.3	28.7	29.0	26.8	25.9	26.3
13	24.2	23.7	23.9	27.1	25.8	26.7	29.2	28.4	28.8	26.4	25.8	26.1
14	24.6	23.7	24.1	26.1	25.1	25.6	28.4	28.0	28.2	26.1	24.8	25.5
15	23.8	22.8	23.3	26.4	25.4	25.9	28.5	28.1	28.4	24.8	23.7	24.0
16	23.2	22.8	23.0	27.2	25.9	26.5	29.3	27.9	28.6	23.8	22.8	23.1
17	23.3	22.9	23.1	28.6	26.5	27.5	29.2	28.6	28.9	23.2	22.5	22.8
18	24.1	23.3	23.7	27.7	26.8	27.3	29.1	28.4	28.7	23.7	22.7	23.1
19	24.7	23.9	24.2	27.0	26.4	26.6	28.4	27.2	27.6	23.9	23.2	23.5
20	25.0	24.0	24.6	26.6	25.8	26.3	28.5	27.7	28.0	23.8	23.5	23.7
21	25.1	24.5	24.8	26.2	25.3	25.8	28.0	27.0	27.4	24.2	23.1	23.7
22	26.0	25.0	25.6	26.5	25.5	26.0	28.0	27.1	27.6	24.3	23.5	23.9
23	26.0	25.0	25.5	27.0	26.1	26.6	28.5	27.7	28.1	25.2	24.2	24.7
24	25.6	24.8	25.1	27.5	26.3	26.9	28.4	27.5	28.0	25.2	24.5	24.9
25	25.6	24.6	25.1	27.1	26.1	26.5	27.5	27.1	27.3	24.5	23.6	24.1
26	26.3	25.5	25.9	26.9	26.0	26.5	28.0	26.6	27.3	23.6	22.6	22.9
27	26.3	25.2	25.7	26.6	26.0	26.2	28.1	27.0	27.6	22.9	22.3	22.6
28	26.1	25.2	25.5	26.0	25.4	25.6	28.4	27.6	28.0	22.4	21.4	22.1
29	26.6	25.5	26.0	25.4	25.0	25.3	28.2	27.7	28.1	21.6	20.7	21.3
30	27.9	26.4	26.9	25.0	24.4	24.7	28.5	27.6	28.0	20.7	19.9	20.4
31	---	---	---	25.3	24.3	24.8	28.6	28.1	28.3	---	---	---
MONTH	27.9	21.9	24.1	28.6	24.3	26.5	29.9	24.9	27.8	28.1	19.9	24.8

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.9	6.3	6.6	8.2	7.7	8.0	9.8	9.4	9.6	12.2	11.8	12.0
2	6.7	5.9	6.3	8.2	7.7	7.9	10.2	9.7	9.9	12.2	11.9	12.1
3	6.8	5.9	6.4	8.2	7.8	8.0	10.7	10.1	10.3	12.3	12.0	12.2
4	6.7	5.3	6.1	8.1	7.7	7.9	11.1	10.7	11.0	12.3	12.1	12.2
5	---	---	---	8.2	7.8	7.9	11.4	11.1	11.2	12.3	12.1	12.2
6	6.9	6.5	6.7	8.2	7.9	8.0	11.4	11.1	11.3	12.2	12.1	12.2
7	6.9	6.6	6.8	8.2	7.9	8.1	11.1	10.7	10.9	12.1	11.9	12.0
8	7.1	6.8	6.9	8.3	8.0	8.1	10.9	10.3	10.6	12.1	11.7	12.0
9	7.5	7.0	7.2	8.4	7.9	8.1	10.5	10.4	10.4	11.8	11.5	11.6
10	7.8	7.5	7.7	8.1	7.6	7.9	10.5	10.3	10.4	---	---	---
11	8.0	7.8	7.8	7.9	7.7	7.8	10.6	10.3	10.5	11.9	11.5	11.7
12	8.0	7.6	7.8	8.1	7.8	7.9	10.6	10.3	10.5	11.8	11.6	11.7
13	8.0	7.5	7.7	8.3	7.9	8.1	10.3	10.1	10.2	11.7	11.5	11.6
14	8.0	7.6	7.8	8.4	8.1	8.2	10.4	10.0	10.2	11.6	11.3	11.5
15	8.0	7.6	7.8	8.5	8.1	8.3	10.2	10.0	10.2	11.5	11.3	11.4
16	7.8	7.4	7.6	8.5	8.1	8.3	10.3	9.8	10.1	11.8	11.2	11.5
17	7.8	7.5	7.6	8.6	8.2	8.3	9.8	9.4	9.6	11.3	11.1	11.2
18	7.7	7.3	7.5	8.6	8.3	8.4	9.7	9.3	9.5	11.6	11.1	11.3
19	7.6	7.3	7.4	9.0	8.5	8.6	9.4	9.1	9.3	11.6	11.2	11.4
20	7.7	7.4	7.5	9.1	8.8	9.0	10.3	9.1	9.6	11.5	11.0	11.2
21	7.8	7.5	7.6	9.2	8.9	9.1	10.4	10.2	10.3	11.1	10.9	11.0
22	7.8	7.5	7.6	9.6	9.2	9.3	10.6	10.3	10.5	11.1	10.9	11.0
23	7.7	7.4	7.6	9.9	9.6	9.7	10.9	10.6	10.7	11.4	11.0	11.2
24	8.1	7.5	7.8	10.3	9.9	10.1	11.1	10.8	10.9	11.8	11.4	11.7
25	8.1	7.6	7.9	10.4	10.0	10.2	11.6	11.1	11.4	11.8	11.5	11.7
26	8.0	7.6	7.8	10.0	9.6	9.8	12.1	11.6	11.8	12.0	11.5	11.8
27	7.9	7.5	7.7	9.7	9.3	9.5	11.8	11.3	11.6	11.8	11.5	11.6
28	7.7	7.4	7.6	9.3	9.0	9.2	11.5	11.3	11.4	12.1	11.6	11.9
29	7.8	7.4	7.6	9.3	9.0	9.2	11.7	11.4	11.5	12.3	11.9	12.1
30	8.0	7.6	7.8	9.7	9.2	9.5	12.0	11.5	11.7	12.1	11.8	12.0
31	8.2	7.9	8.0	---	---	---	11.9	11.7	11.8	11.8	11.4	11.6
MONTH	---	---	---	10.4	7.6	8.6	12.1	9.1	10.6	---	---	---

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	6.9	7.2	5.9	5.2	5.5	6.5	6.0	6.2	6.2	5.8	6.0
2	7.6	6.8	7.1	6.0	5.4	5.7	6.5	6.2	6.3	6.4	6.1	6.2
3	7.0	6.4	6.6	6.1	5.4	5.7	6.4	6.1	6.2	6.9	6.2	6.6
4	7.1	6.5	6.8	6.1	5.8	5.9	6.3	5.9	6.1	6.5	6.3	6.4
5	7.3	6.7	7.0	6.1	5.6	5.8	6.3	5.8	6.1	6.7	6.3	6.4
6	7.3	6.5	6.9	5.8	5.4	5.6	6.3	5.7	6.1	6.8	6.3	6.5
7	6.6	5.4	6.0	5.8	5.3	5.6	6.1	5.6	5.9	6.7	6.4	6.5
8	5.9	5.5	5.7	5.8	5.4	5.6	6.2	5.7	5.9	6.7	6.3	6.5
9	6.0	5.6	5.8	5.9	5.5	5.7	6.3	5.6	5.9	6.7	6.2	6.4
10	6.0	5.6	5.8	5.7	5.1	5.4	6.1	5.5	5.8	6.9	6.3	6.6
11	6.2	5.6	5.9	5.5	5.2	5.4	6.2	5.8	6.0	6.6	6.0	6.3
12	6.4	5.9	6.1	5.4	5.2	5.3	6.2	5.7	5.9	6.5	6.0	6.2
13	6.3	5.9	6.1	5.4	5.0	5.2	6.0	5.6	5.9	6.5	6.1	6.3
14	6.5	5.7	6.1	5.4	5.0	5.2	6.2	5.7	6.0	6.5	6.1	6.2
15	6.2	5.8	6.0	5.4	5.1	5.3	6.2	5.8	6.0	6.7	6.1	6.4
16	6.3	5.2	5.7	5.8	5.3	5.5	6.2	5.9	6.1	6.8	6.5	6.6
17	5.2	4.3	4.7	5.7	5.4	5.6	6.4	5.8	6.1	6.9	6.7	6.8
18	4.4	4.0	4.2	5.8	5.6	5.7	6.4	5.8	6.1	7.0	6.8	6.9
19	4.6	4.0	4.1	5.8	5.5	5.7	5.8	5.2	5.4	7.0	6.8	6.9
20	4.8	4.3	4.6	5.8	5.6	5.7	5.7	5.4	5.6	7.0	6.8	6.8
21	4.7	4.1	4.3	5.9	5.6	5.7	5.8	5.4	5.6	7.1	6.6	6.8
22	5.5	4.4	5.0	6.0	5.7	5.8	5.9	5.4	5.7	7.0	6.6	6.8
23	5.7	5.0	5.3	5.8	5.6	5.7	5.9	5.4	5.7	7.0	6.6	6.8
24	6.0	5.1	5.4	5.7	5.3	5.5	6.0	5.6	5.8	6.9	6.6	6.7
25	6.0	5.2	5.7	5.7	5.3	5.4	6.2	5.8	6.0	6.7	6.3	6.5
26	6.0	5.5	5.7	6.0	5.3	5.6	6.2	5.8	6.0	6.4	6.0	6.1
27	6.2	5.5	5.8	6.1	5.7	5.9	7.0	6.1	6.5	6.9	6.3	6.6
28	6.2	5.0	5.4	6.1	5.7	5.9	6.4	6.0	6.2	7.0	6.7	6.8
29	6.1	5.3	5.6	5.8	5.6	5.7	6.7	5.9	6.3	7.2	6.8	7.0
30	6.1	5.2	5.6	6.0	5.8	5.9	6.5	6.3	6.4	7.2	6.8	7.0
31	---	---	---	6.2	5.9	6.1	6.4	5.9	6.1	---	---	---
MONTH	7.7	4.0	5.7	6.2	5.0	5.6	7.0	5.2	6.0	7.2	5.8	6.6

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	78	69	74	83	79	81	85	82	84	91	88	89
2	75	67	71	84	78	80	87	84	85	90	88	89
3	77	67	73	84	78	81	87	85	86	91	88	89
4	76	61	70	83	79	81	90	87	88	91	89	90
5	---	---	---	84	79	81	90	87	89	91	89	90
6	81	77	79	84	80	81	91	89	89	91	88	90
7	81	78	80	82	79	81	90	88	89	91	88	90
8	81	76	79	83	80	82	89	85	87	92	89	91
9	81	76	79	84	82	83	88	86	87	90	87	89
10	83	81	82	84	80	82	88	86	87	---	---	---
11	85	81	82	82	79	80	88	85	87	89	87	88
12	85	81	83	81	79	80	88	86	87	92	89	90
13	86	79	83	82	79	80	86	84	85	92	90	91
14	86	81	83	83	79	81	87	83	85	92	90	91
15	85	81	83	82	78	80	85	83	84	92	90	91
16	83	80	81	81	78	79	86	82	84	96	90	93
17	84	80	82	82	78	79	83	80	82	92	89	90
18	83	79	82	82	78	79	82	79	80	92	90	91
19	82	79	80	83	79	80	79	76	78	94	89	92
20	83	79	81	84	81	82	82	76	79	94	89	92
21	83	80	81	83	81	82	83	82	83	90	87	89
22	84	80	82	85	82	83	86	83	85	89	87	88
23	83	80	81	86	84	85	86	85	86	89	86	88
24	86	80	84	88	85	87	87	85	86	92	88	91
25	86	81	84	89	87	87	88	86	87	93	89	91
26	86	80	82	88	85	86	90	87	88	94	89	92
27	85	81	83	86	83	85	89	86	88	92	89	90
28	83	79	81	83	80	82	88	86	87	95	90	94
29	82	79	80	82	80	81	91	88	89	97	93	95
30	83	79	81	85	81	83	91	88	89	98	93	95
31	83	80	81	---	---	---	91	88	89	97	93	95
MONTH	---	---	---	89	78	82	91	76	86	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	94	92	93	84	78	81	86	82	84	89	80	84
2	94	91	92	83	79	80	82	79	81	86	78	81
3	94	90	92	83	78	81	85	81	82	86	78	81
4	94	91	92	82	76	78	82	80	81	87	77	81
5	95	90	93	82	76	80	81	80	81	88	76	81
6	95	91	93	78	75	77	83	80	81	89	76	82
7	93	91	92	84	76	79	84	80	82	87	76	81
8	93	91	93	88	83	85	84	81	82	84	73	78
9	96	90	93	87	84	85	84	80	82	87	73	79
10	94	90	92	88	82	85	84	81	82	86	76	80
11	94	89	91	87	83	85	---	---	---	83	73	77
12	92	86	90	88	83	86	---	---	---	83	70	76
13	92	86	89	86	82	84	---	---	---	83	71	77
14	93	90	92	92	83	88	---	---	---	83	68	76
15	93	90	92	87	82	85	---	---	---	82	66	73
16	94	87	91	84	82	83	---	---	---	83	73	78
17	88	84	86	87	81	84	---	---	---	83	73	76
18	85	84	84	87	82	84	---	---	---	82	73	77
19	85	82	83	86	78	83	---	---	---	81	75	78
20	90	83	87	80	78	79	---	---	---	83	77	80
21	90	86	89	85	79	82	---	---	---	84	74	79
22	90	82	86	85	81	83	---	---	---	84	72	77
23	85	79	82	81	77	80	---	---	---	85	78	81
24	88	84	86	87	79	84	---	---	---	86	77	82
25	88	84	86	84	81	83	89	80	85	91	78	84
26	89	81	86	84	80	83	86	80	82	89	80	84
27	81	80	81	88	80	85	83	80	81	89	80	83
28	84	78	81	89	83	87	88	81	84	83	79	81
29	---	---	---	89	85	87	89	80	84	89	79	83
30	---	---	---	88	84	87	89	80	84	86	81	83
31	---	---	---	86	82	84	---	---	---	90	81	84
MONTH	96	78	89	92	75	83	---	---	---	91	66	80

02081022 ROANOKE RIVER NEAR OAK CITY, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	91	80	84	75	66	70	80	73	76	79	74	76
2	88	78	83	76	67	71	81	76	78	82	76	79
3	80	74	77	76	67	71	80	75	78	88	79	83
4	83	75	79	77	72	74	79	73	76	82	79	80
5	86	77	82	76	71	73	80	72	76	84	78	81
6	85	76	81	74	68	71	79	72	77	86	79	82
7	78	63	70	74	66	71	77	71	75	84	80	82
8	70	64	67	73	67	70	80	72	76	84	79	81
9	71	66	69	75	68	71	81	71	76	84	77	80
10	71	66	68	71	65	68	80	71	76	87	78	82
11	74	66	71	69	65	68	82	75	79	82	75	79
12	76	70	73	68	66	67	81	74	77	82	74	77
13	75	71	72	68	62	66	79	73	76	81	75	78
14	78	68	73	66	61	64	80	74	78	80	74	77
15	74	68	71	68	62	65	80	75	78	80	73	76
16	74	61	67	73	65	69	82	76	79	79	76	78
17	61	51	55	73	69	71	84	76	80	81	78	79
18	52	48	49	73	70	72	83	74	79	82	80	81
19	55	47	49	73	68	71	75	67	69	83	80	81
20	59	51	55	73	70	71	73	69	71	83	80	81
21	57	49	52	73	68	70	73	69	71	84	77	81
22	68	54	61	74	69	71	76	69	72	83	78	81
23	71	61	65	73	70	71	77	69	73	83	80	81
24	74	62	66	72	67	69	78	72	75	84	80	82
25	74	64	69	72	66	68	78	74	76	80	75	78
26	74	67	70	75	66	70	80	72	76	76	69	72
27	76	68	71	76	71	73	90	77	83	80	73	77
28	76	61	66	76	70	73	82	77	80	80	76	79
29	76	65	69	71	68	70	86	76	81	82	76	79
30	78	64	70	72	70	71	84	80	82	80	76	78
31	---	---	---	75	71	73	82	76	79	---	---	---
MONTH	91	47	68	77	61	70	90	67	77	88	69	79

Gaging station at Cashie River near Windsor, North Carolina.

02081028 ROANOKE RIVER AT HAMILTON, NC

LOCATION.--Lat 35°55'50", long 77°12'10", 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 sea level. Satellite telemetry at station.

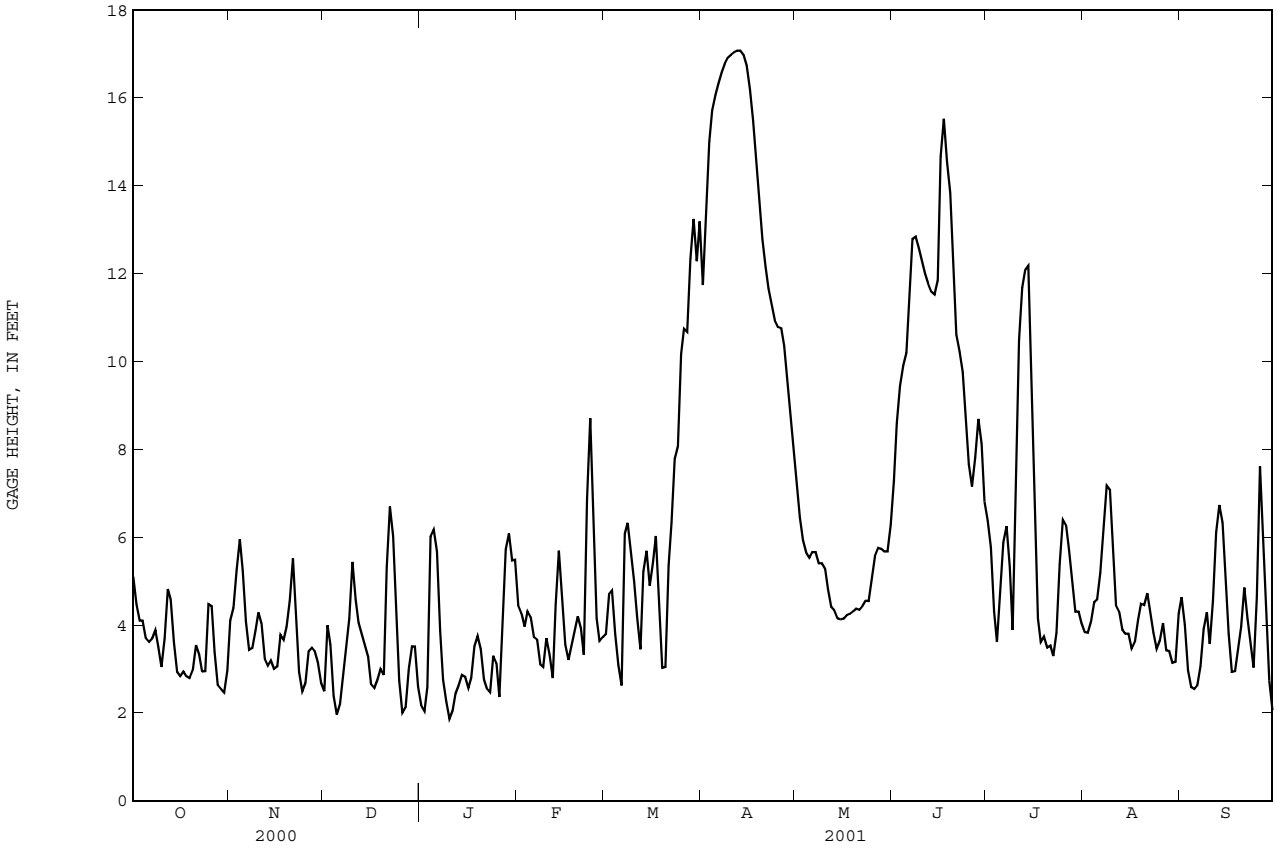
EXTREMES FOR PERIOD OF RECORD.--Maximum, 18.17 ft, Sept. 19, 1999; minimum 1.67 ft, Oct. 24, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum, 17.10 ft, Apr. 13; minimum, 1.72 ft, Jan. 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.10	4.10	2.49	2.17	4.45	3.79	11.73	7.17	7.28	6.38	3.84	4.63
2	4.47	4.38	3.99	2.04	4.27	4.70	13.61	6.45	8.59	5.77	3.82	4.01
3	4.10	5.25	3.55	2.58	3.96	4.78	15.00	5.92	9.44	4.31	4.08	2.97
4	4.10	5.95	2.39	6.01	4.31	3.79	15.71	5.64	9.90	3.61	4.52	2.58
5	3.70	5.24	1.96	6.17	4.18	3.08	16.05	5.53	10.19	4.66	4.58	2.54
6	3.61	4.08	2.20	5.67	3.73	2.62	16.33	5.66	11.41	5.88	5.19	2.62
7	3.69	3.43	2.79	3.86	3.67	6.07	16.58	5.66	12.78	6.25	6.29	3.06
8	3.88	3.47	3.42	2.76	3.10	6.32	16.78	5.40	12.83	5.33	7.17	3.91
9	3.51	3.87	4.14	2.26	3.04	5.62	16.91	5.40	12.57	3.88	7.08	4.29
10	3.04	4.28	5.43	1.86	3.70	5.00	16.98	5.28	12.28	6.34	5.75	3.57
11	3.69	4.02	4.57	2.05	3.32	4.14	17.04	4.81	12.00	10.48	4.45	4.55
12	4.81	3.23	4.05	2.44	2.79	3.44	17.07	4.41	11.77	11.68	4.30	6.11
13	4.57	3.07	3.79	2.63	4.46	5.21	17.07	4.33	11.59	12.07	3.89	6.73
14	3.60	3.19	3.53	2.86	5.69	5.69	16.98	4.15	11.52	12.17	3.80	6.33
15	2.93	3.00	3.27	2.82	4.75	4.89	16.73	4.13	11.84	9.34	3.80	5.12
16	2.83	3.05	2.65	2.56	3.55	5.42	16.20	4.14	14.66	6.10	3.46	3.81
17	2.93	3.77	2.56	2.79	3.20	6.02	15.48	4.22	15.52	4.15	3.61	2.93
18	2.83	3.66	2.75	3.51	3.50	4.30	14.67	4.25	14.54	3.60	4.11	2.95
19	2.79	3.95	3.00	3.74	3.86	3.02	13.65	4.31	13.84	3.73	4.48	3.40
20	2.97	4.55	2.86	3.44	4.19	3.04	12.78	4.37	12.09	3.48	4.45	3.95
21	3.54	5.51	5.30	2.75	3.92	5.36	12.15	4.34	10.61	3.52	4.72	4.85
22	3.32	4.12	6.69	2.55	3.32	6.32	11.66	4.43	10.23	3.29	4.22	4.14
23	2.94	2.93	6.02	2.46	6.86	7.78	11.28	4.55	9.76	3.82	3.82	3.59
24	2.95	2.49	4.12	3.30	8.70	8.06	10.93	4.54	8.75	5.38	3.46	3.03
25	4.47	2.68	2.74	3.13	5.90	10.17	10.78	5.08	7.66	6.40	3.65	4.61
26	4.43	3.40	1.99	2.36	4.15	10.74	10.75	5.57	7.15	6.27	4.04	7.60
27	3.39	3.48	2.12	4.35	3.63	10.67	10.36	5.75	7.81	5.72	3.42	5.51
28	2.63	3.40	3.00	5.72	3.72	12.33	9.64	5.73	8.69	4.96	3.41	3.84
29	2.54	3.14	3.51	6.08	---	13.24	8.82	5.67	8.13	4.30	3.14	2.73
30	2.46	2.68	3.51	5.47	---	12.28	7.97	5.67	6.81	4.30	3.16	2.06
31	2.96	---	2.59	5.48	---	13.18	---	6.28	---	4.04	4.27	---
MEAN	3.51	3.78	3.45	3.48	4.21	6.49	13.92	5.12	10.74	5.85	4.32	4.07
MAX	5.10	5.95	6.69	6.17	8.70	13.24	17.07	7.17	15.52	12.17	7.17	7.60
MIN	2.46	2.49	1.96	1.86	2.79	2.62	7.97	4.13	6.81	3.29	3.14	2.06

02081028 ROANOKE RIVER AT HAMILTON, NC--Continued



355812077082301 BROADNECK TRANSECT (SITE #1)

LOCATION.--Lat 35°58'10", long 77°08'27", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, approximately 4.2 mi east-northeast of Hamilton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--April 1997 to January 2001 (discontinued). Records from April 1997 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

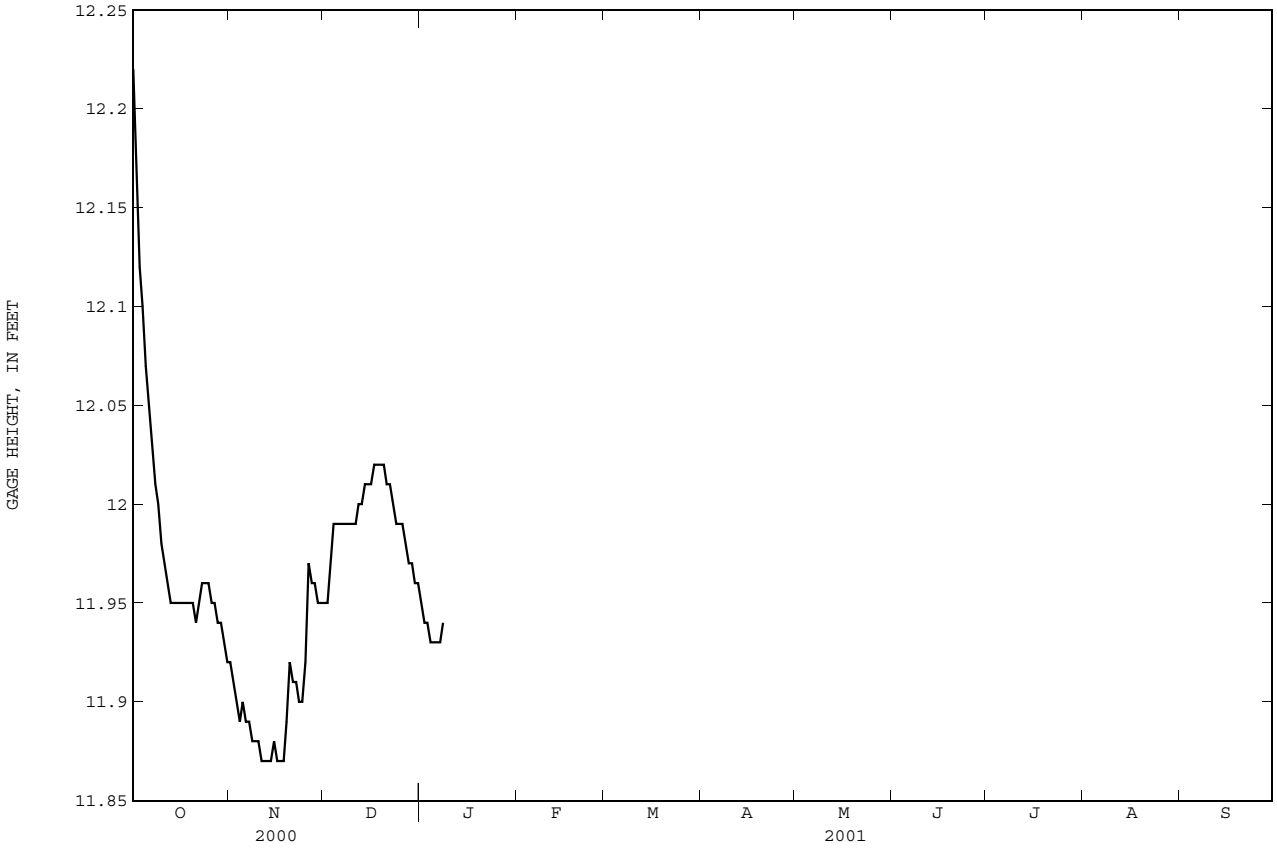
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 18.60 ft, Sept. 19, 1999; minimum recorded gage height, 11.05 ft, Aug. 8, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 12.27 ft, Oct. 1; minimum recorded gage height, 11.87 ft, Nov. 11, 12, 13, 14, 15, 16, 17, 18, 19.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.22	11.92	11.95	11.95	---	---	---	---	---	---	---	---
2	12.16	11.91	11.95	11.94	---	---	---	---	---	---	---	---
3	12.12	11.90	11.97	11.94	---	---	---	---	---	---	---	---
4	12.10	11.89	11.99	11.93	---	---	---	---	---	---	---	---
5	12.07	11.90	11.99	11.93	---	---	---	---	---	---	---	---
6	12.05	11.89	11.99	11.93	---	---	---	---	---	---	---	---
7	12.03	11.89	11.99	11.93	---	---	---	---	---	---	---	---
8	12.01	11.88	11.99	11.94	---	---	---	---	---	---	---	---
9	12.00	11.88	11.99	---	---	---	---	---	---	---	---	---
10	11.98	11.88	11.99	---	---	---	---	---	---	---	---	---
11	11.97	11.87	11.99	---	---	---	---	---	---	---	---	---
12	11.96	11.87	12.00	---	---	---	---	---	---	---	---	---
13	11.95	11.87	12.00	---	---	---	---	---	---	---	---	---
14	11.95	11.87	12.01	---	---	---	---	---	---	---	---	---
15	11.95	11.88	12.01	---	---	---	---	---	---	---	---	---
16	11.95	11.87	12.01	---	---	---	---	---	---	---	---	---
17	11.95	11.87	12.02	---	---	---	---	---	---	---	---	---
18	11.95	11.87	12.02	---	---	---	---	---	---	---	---	---
19	11.95	11.89	12.02	---	---	---	---	---	---	---	---	---
20	11.95	11.92	12.02	---	---	---	---	---	---	---	---	---
21	11.94	11.91	12.01	---	---	---	---	---	---	---	---	---
22	11.95	11.91	12.01	---	---	---	---	---	---	---	---	---
23	11.96	11.90	12.00	---	---	---	---	---	---	---	---	---
24	11.96	11.90	11.99	---	---	---	---	---	---	---	---	---
25	11.96	11.92	11.99	---	---	---	---	---	---	---	---	---
26	11.95	11.97	11.99	---	---	---	---	---	---	---	---	---
27	11.95	11.96	11.98	---	---	---	---	---	---	---	---	---
28	11.94	11.96	11.97	---	---	---	---	---	---	---	---	---
29	11.94	11.95	11.97	---	---	---	---	---	---	---	---	---
30	11.93	11.95	11.96	---	---	---	---	---	---	---	---	---
31	11.92	---	11.96	---	---	---	---	---	---	---	---	---
MEAN	11.99	11.90	11.99	---	---	---	---	---	---	---	---	---
MAX	12.22	11.97	12.02	---	---	---	---	---	---	---	---	---
MIN	11.92	11.87	11.95	---	---	---	---	---	---	---	---	---

355812077082301 BROADNECK TRANSECT (SITE #1)--Continued



355722077082801 BROADNECK TRANSECT (SITE #2)

LOCATION.--Lat 35°57'21", long 77°17'25", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 3.85 mi east of Hamilton.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--November 1996 to January 2001 (discontinued). Records from November 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

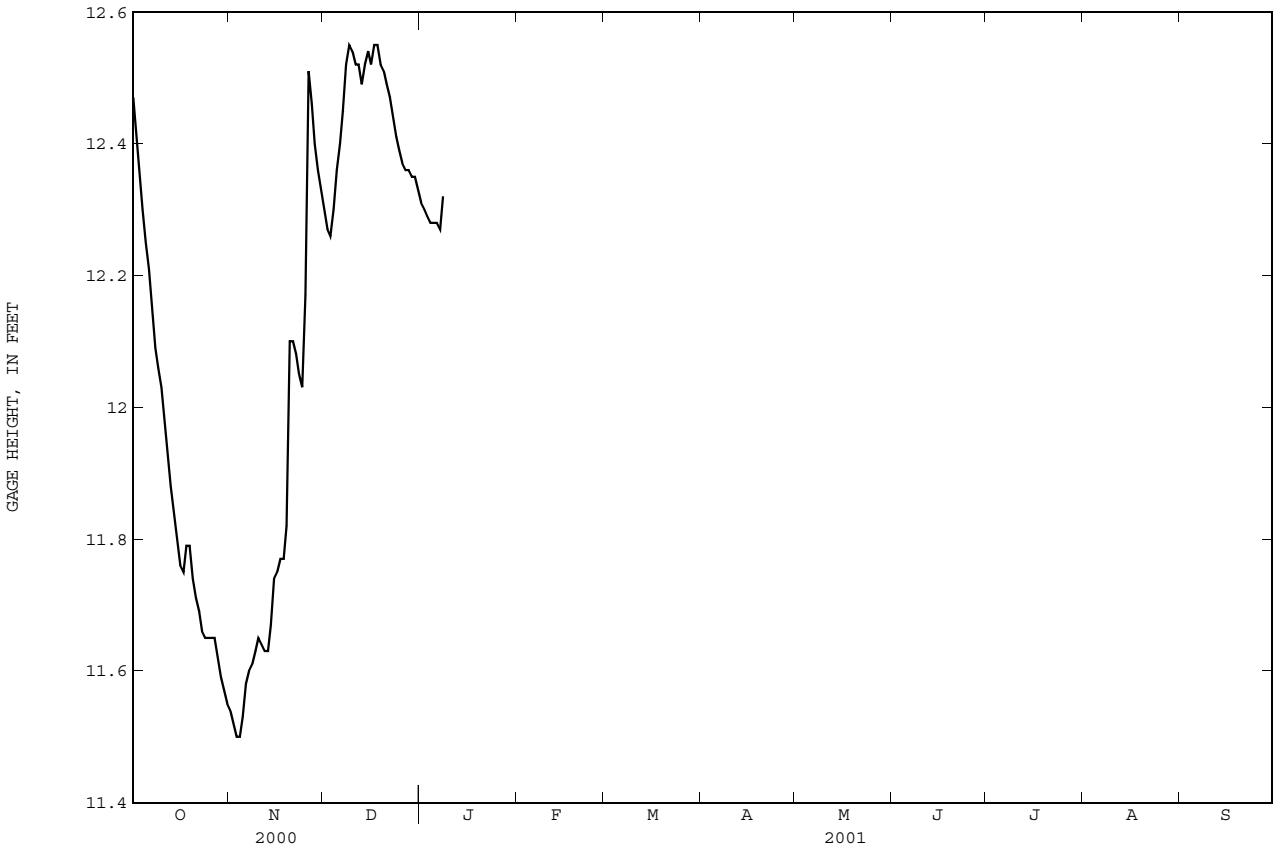
EXTREMES FOR PERIOD OF RECORD.--Maximum, 18.84 ft, Sept. 19, 1999; minimum recorded, 7.79 ft, Oct. 25, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum, 12.58 ft, Dec. 19; minimum, 11.49 ft, Nov. 3, 4, 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.47	11.54	12.30	12.31	---	---	---	---	---	---	---	---
2	12.42	11.52	12.27	12.30	---	---	---	---	---	---	---	---
3	12.36	11.50	12.26	12.29	---	---	---	---	---	---	---	---
4	12.30	11.50	12.30	12.28	---	---	---	---	---	---	---	---
5	12.25	11.53	12.36	12.28	---	---	---	---	---	---	---	---
6	12.21	11.58	12.40	12.28	---	---	---	---	---	---	---	---
7	12.15	11.60	12.45	12.27	---	---	---	---	---	---	---	---
8	12.09	11.61	12.52	12.32	---	---	---	---	---	---	---	---
9	12.06	11.63	12.55	---	---	---	---	---	---	---	---	---
10	12.03	11.65	12.54	---	---	---	---	---	---	---	---	---
11	11.98	11.64	12.52	---	---	---	---	---	---	---	---	---
12	11.93	11.63	12.52	---	---	---	---	---	---	---	---	---
13	11.88	11.63	12.49	---	---	---	---	---	---	---	---	---
14	11.84	11.67	12.52	---	---	---	---	---	---	---	---	---
15	11.80	11.74	12.54	---	---	---	---	---	---	---	---	---
16	11.76	11.75	12.52	---	---	---	---	---	---	---	---	---
17	11.75	11.77	12.55	---	---	---	---	---	---	---	---	---
18	11.79	11.77	12.55	---	---	---	---	---	---	---	---	---
19	11.79	11.82	12.52	---	---	---	---	---	---	---	---	---
20	11.74	12.10	12.51	---	---	---	---	---	---	---	---	---
21	11.71	12.10	12.49	---	---	---	---	---	---	---	---	---
22	11.69	12.08	12.47	---	---	---	---	---	---	---	---	---
23	11.66	12.05	12.44	---	---	---	---	---	---	---	---	---
24	11.65	12.03	12.41	---	---	---	---	---	---	---	---	---
25	11.65	12.17	12.39	---	---	---	---	---	---	---	---	---
26	11.65	12.51	12.37	---	---	---	---	---	---	---	---	---
27	11.65	12.46	12.36	---	---	---	---	---	---	---	---	---
28	11.62	12.40	12.36	---	---	---	---	---	---	---	---	---
29	11.59	12.36	12.35	---	---	---	---	---	---	---	---	---
30	11.57	12.33	12.35	---	---	---	---	---	---	---	---	---
31	11.55	---	12.33	---	---	---	---	---	---	---	---	---
MEAN	11.89	11.86	12.44	---	---	---	---	---	---	---	---	---
MAX	12.47	12.51	12.55	---	---	---	---	---	---	---	---	---
MIN	11.55	11.50	12.26	---	---	---	---	---	---	---	---	---

355722077082801 BROADNECK TRANSECT (SITE #2)--Continued



355540077083401 BROADNECK TRANSECT (SITE #3)

LOCATION.--Lat 35°55'41", long 77°08'35", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 3.9 mi east-southeast of Hamilton and 0.4 mi north of State Road 1416 on private dirt road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

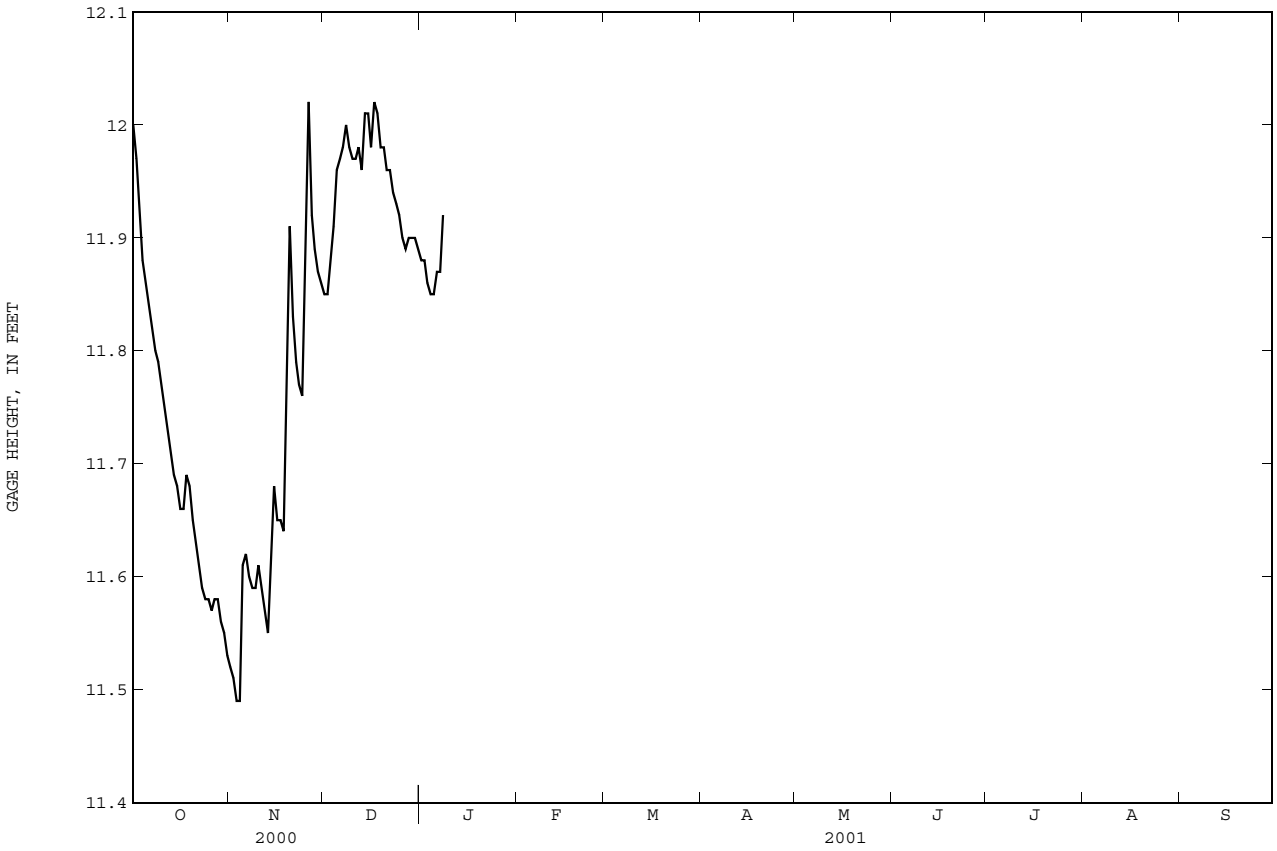
EXTREMES FOR PERIOD OF RECORD.--Maximum, 16.95 ft, Sept. 19, 1999; minimum recorded, 9.28 ft, Aug. 14, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 12.12 ft, Nov. 25; minimum, 11.48 ft, Nov. 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.00	11.52	11.85	11.88	---	---	---	---	---	---	---	---
2	11.97	11.51	11.85	11.88	---	---	---	---	---	---	---	---
3	11.92	11.49	11.88	11.86	---	---	---	---	---	---	---	---
4	11.88	11.49	11.91	11.85	---	---	---	---	---	---	---	---
5	11.86	11.61	11.96	11.85	---	---	---	---	---	---	---	---
6	11.84	11.62	11.97	11.87	---	---	---	---	---	---	---	---
7	11.82	11.60	11.98	11.87	---	---	---	---	---	---	---	---
8	11.80	11.59	12.00	11.92	---	---	---	---	---	---	---	---
9	11.79	11.59	11.98	---	---	---	---	---	---	---	---	---
10	11.77	11.61	11.97	---	---	---	---	---	---	---	---	---
11	11.75	11.59	11.97	---	---	---	---	---	---	---	---	---
12	11.73	11.57	11.98	---	---	---	---	---	---	---	---	---
13	11.71	11.55	11.96	---	---	---	---	---	---	---	---	---
14	11.69	11.61	12.01	---	---	---	---	---	---	---	---	---
15	11.68	11.68	12.01	---	---	---	---	---	---	---	---	---
16	11.66	11.65	11.98	---	---	---	---	---	---	---	---	---
17	11.66	11.65	12.02	---	---	---	---	---	---	---	---	---
18	11.69	11.64	12.01	---	---	---	---	---	---	---	---	---
19	11.68	11.74	11.98	---	---	---	---	---	---	---	---	---
20	11.65	11.91	11.98	---	---	---	---	---	---	---	---	---
21	11.63	11.83	11.96	---	---	---	---	---	---	---	---	---
22	11.61	11.79	11.96	---	---	---	---	---	---	---	---	---
23	11.59	11.77	11.94	---	---	---	---	---	---	---	---	---
24	11.58	11.76	11.93	---	---	---	---	---	---	---	---	---
25	11.58	11.90	11.92	---	---	---	---	---	---	---	---	---
26	11.57	12.02	11.90	---	---	---	---	---	---	---	---	---
27	11.58	11.92	11.89	---	---	---	---	---	---	---	---	---
28	11.58	11.89	11.90	---	---	---	---	---	---	---	---	---
29	11.56	11.87	11.90	---	---	---	---	---	---	---	---	---
30	11.55	11.86	11.90	---	---	---	---	---	---	---	---	---
31	11.53	---	11.89	---	---	---	---	---	---	---	---	---
MEAN	11.71	11.69	11.95	---	---	---	---	---	---	---	---	---
MAX	12.00	12.02	12.02	---	---	---	---	---	---	---	---	---
MIN	11.53	11.49	11.85	---	---	---	---	---	---	---	---	---

355540077083401 BROADNECK TRANSECT (SITE #3)--Continued



0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC

LOCATION.--Lat 35°56'39", long 77°04'10", Bertie County, Hydrologic Unit 03010107, on left bank, 0.1 mi downstream of Coniott Creek, and 0.65 mi south-southeast of Quitsna.

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

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: January 1998 to current year.

pH: January 1998 to current year.

WATER TEMPERATURE: January 1998 to current year.

DISSOLVED OXYGEN: January 1998 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION: January 1998 to current year.

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

REMARKS.--Station operated in cooperation with U.S. Fish and Wildlife Service 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	215, August 30, 2001	32, September 18, 19, 1999
pH, standard units	7.9, March 8, 1998	5.7, September 18-21, 1999
WATER TEMPERATURE, °C	31.1, August 1, 1999	2.3, January 4, 2001
DISSOLVED OXYGEN, mg/L	14.2, January 7, 1999	2.2, May 15, 2000
DISSOLVED OXYGEN, PERCENT SATURATION,%	121, July 5, 6, 1999	26, May 15, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	215, August 30	57, June 19
pH, standard units	7.7, June 14, 15	6.0, March 21-24
WATER TEMPERATURE, °C	29.8, August 12	2.3, January 4
DISSOLVED OXYGEN, mg/L	13.9, January 4	2.7, June 17
DISSOLVED OXYGEN, PERCENT SATURATION,%	105, February 27	31, November 24

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	109	100	105	123	121	122	124	116	122	107	106	107
2	111	102	107	121	113	118	130	116	124	110	107	107
3	111	99	105	115	105	109	130	127	129	121	109	115
4	111	99	105	119	107	113	127	114	123	121	118	120
5	112	108	110	117	104	107	114	107	110	118	105	109
6	112	104	109	112	103	108	128	110	120	114	103	105
7	120	111	117	120	107	113	130	127	128	116	106	111
8	124	120	123	120	108	113	127	125	126	117	111	115
9	128	110	118	122	113	120	129	118	127	116	106	110
10	129	116	127	122	119	121	128	113	119	127	107	120
11	122	104	110	123	114	118	123	111	117	128	114	122
12	123	107	119	120	113	116	122	107	113	120	114	118
13	122	109	114	120	112	117	117	107	113	123	119	119
14	123	105	115	126	112	118	126	115	123	123	119	122
15	128	104	112	126	124	125	122	112	115	---	---	---
16	128	114	120	124	121	123	129	115	123	122	116	119
17	132	124	129	123	121	121	126	118	123	122	107	115
18	132	127	131	125	123	124	131	119	124	121	107	117
19	128	125	127	124	113	120	133	131	132	127	104	116
20	128	121	124	122	114	119	133	123	130	116	102	109
21	132	128	130	125	112	120	123	114	119	107	103	105
22	131	127	129	121	111	116	124	109	117	114	103	110
23	131	119	128	120	113	116	111	106	108	114	110	112
24	133	119	126	114	112	113	115	108	111	115	111	113
25	135	127	132	127	113	119	118	112	115	111	109	110
26	131	119	127	128	123	126	119	109	114	118	109	113
27	119	110	113	126	124	125	128	110	119	116	99	106
28	118	107	114	124	119	121	129	125	127	117	107	115
29	121	106	114	122	114	119	126	117	123	107	101	103
30	126	120	124	123	114	119	117	108	112	109	102	106
31	126	123	124	---	---	---	109	104	106	110	102	106
MONTH	135	99	119	128	103	118	133	104	120	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	113	107	110	141	127	135	133	128	130	133	130	132
2	115	109	112	150	130	140	139	126	130	135	130	133
3	124	108	115	152	134	141	135	126	128	137	131	135
4	125	114	119	141	129	135	128	127	127	140	137	138
5	118	110	115	139	128	134	129	127	128	---	---	---
6	124	109	117	140	130	135	129	124	127	141	135	139
7	123	108	115	147	134	144	---	---	---	144	139	141
8	124	114	119	146	125	137	---	---	---	142	139	140
9	124	113	118	127	124	126	124	122	123	141	137	138
10	129	117	122	144	127	134	---	---	---	139	136	138
11	133	125	130	150	133	141	123	121	122	140	138	139
12	128	121	125	141	132	137	125	122	124	142	140	141
13	133	118	125	155	135	144	125	123	124	145	140	143
14	133	117	128	154	145	152	126	124	125	146	143	145
15	125	116	119	148	131	135	127	124	126	145	141	143
16	131	115	122	151	135	141	127	123	125	143	139	141
17	126	119	121	155	138	146	127	119	125	141	138	139
18	137	122	130	147	135	144	126	123	125	140	137	139
19	136	129	133	146	136	139	126	123	124	139	132	135
20	130	121	128	146	140	143	127	123	125	134	132	133
21	126	118	122	154	143	149	127	125	126	133	128	130
22	131	118	126	152	137	145	129	126	127	129	125	127
23	136	117	125	139	128	133	130	127	129	127	123	125
24	140	116	126	140	128	134	130	129	130	125	123	124
25	119	116	117	140	129	133	131	129	130	128	125	126
26	128	118	124	138	131	133	132	128	129	128	124	126
27	128	119	121	137	131	134	131	129	130	124	122	123
28	139	128	137	138	132	135	132	129	130	125	114	122
29	---	---	---	140	130	133	133	130	131	121	116	120
30	---	---	---	137	131	133	134	132	133	120	118	119
31	---	---	---	144	131	134	---	---	---	120	118	119
MONTH	140	107	122	155	124	138	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	120	118	119	120	106	113	116	114	115	145	133	142
2	119	113	116	123	109	118	117	115	116	137	131	133
3	116	112	115	123	113	117	119	115	116	133	127	129
4	113	109	111	119	114	115	127	119	123	142	126	136
5	111	110	110	125	115	120	125	121	124	143	125	133
6	110	108	109	126	113	122	125	116	122	151	143	148
7	110	97	105	123	109	115	125	114	121	152	150	151
8	97	91	93	122	109	115	124	111	115	153	150	151
9	96	91	94	124	109	117	130	116	122	152	137	146
10	100	95	98	128	113	117	128	116	119	150	134	140
11	103	100	101	129	108	118	134	117	126	146	122	131
12	103	101	102	119	108	111	133	118	122	148	123	140
13	106	103	105	119	108	111	141	133	139	136	121	128
14	108	105	106	117	107	110	140	125	132	124	117	120
15	108	102	106	117	107	111	136	126	131	141	122	128
16	108	92	103	112	107	110	136	133	134	135	122	128
17	---	---	---	111	108	110	137	127	132	135	127	130
18	71	59	65	129	111	120	145	137	140	144	135	138
19	63	57	60	132	129	130	145	138	143	144	139	142
20	80	62	69	132	129	130	138	113	121	143	142	142
21	84	79	81	131	120	125	134	120	126	144	133	141
22	---	---	---	132	127	131	136	134	135	146	131	138
23	106	89	100	132	122	128	136	118	127	133	128	131
24	101	96	99	131	125	129	140	122	133	141	126	130
25	105	100	102	128	114	122	144	128	137	152	132	145
26	107	100	105	121	114	117	147	137	145	151	119	140
27	114	104	109	118	112	115	144	140	143	119	115	116
28	115	102	109	117	110	113	140	123	127	117	116	116
29	112	103	106	112	109	110	145	123	137	131	116	120
30	118	106	111	116	112	115	215	134	144	---	---	---
31	---	---	---	117	110	115	144	132	139	---	---	---
MONTH	---	---	---	132	106	118	215	111	129	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.0	7.0	7.0	6.8	6.7	6.8	6.4	6.2	6.3	6.6	6.5	6.5
2	7.0	7.0	7.0	6.9	6.8	6.8	6.4	6.2	6.3	6.6	6.5	6.5
3	7.0	7.0	7.0	6.9	6.8	6.8	6.4	6.4	6.4	6.6	6.5	6.5
4	7.1	6.9	7.0	6.8	6.8	6.8	6.4	6.4	6.4	6.5	6.4	6.5
5	7.0	7.0	7.0	6.8	6.7	6.8	6.5	6.4	6.5	---	---	---
6	7.0	7.0	7.0	6.8	6.7	6.7	6.6	6.4	6.5	6.5	6.5	6.5
7	7.0	7.0	7.0	6.8	6.7	6.8	---	---	---	6.8	6.4	6.6
8	7.0	6.9	7.0	6.9	6.7	6.8	---	---	---	6.7	6.6	6.7
9	6.9	6.9	6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.8	6.6	6.7
10	7.0	6.8	6.9	6.8	6.8	6.8	---	---	---	6.8	6.7	6.7
11	6.9	6.8	6.9	6.8	6.8	6.8	6.5	6.4	6.5	6.7	6.7	6.7
12	6.9	6.8	6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.7	6.6	6.7
13	6.9	6.8	6.9	6.8	6.8	6.8	6.6	6.5	6.5	6.8	6.6	6.7
14	6.9	6.8	6.9	6.8	6.8	6.8	6.5	6.5	6.5	6.8	6.7	6.8
15	6.9	6.8	6.9	6.8	6.7	6.8	6.5	6.3	6.4	6.8	6.7	6.7
16	6.9	6.8	6.9	6.8	6.7	6.7	6.4	6.3	6.3	6.8	6.7	6.7
17	6.8	6.8	6.8	6.7	6.5	6.6	6.3	6.2	6.3	6.9	6.8	6.8
18	6.8	6.7	6.7	6.5	6.3	6.4	6.3	6.2	6.3	6.9	6.8	6.9
19	6.8	6.7	6.8	6.3	6.2	6.3	6.3	6.2	6.2	6.9	6.8	6.8
20	6.7	6.6	6.7	6.2	6.1	6.1	6.3	6.2	6.3	6.9	6.8	6.8
21	6.7	6.7	6.7	6.1	6.0	6.0	6.3	6.2	6.3	6.9	6.8	6.9
22	7.1	6.7	6.8	6.1	6.0	6.1	6.3	6.2	6.2	6.9	6.9	6.9
23	7.0	6.9	7.0	6.1	6.0	6.0	6.3	6.2	6.2	6.9	6.9	6.9
24	7.0	6.9	6.9	6.1	6.0	6.1	6.3	6.2	6.3	6.9	6.9	6.9
25	6.9	6.8	6.8	6.2	6.1	6.2	6.4	6.2	6.3	7.1	6.9	7.0
26	6.9	6.8	6.8	6.3	6.2	6.2	6.4	6.3	6.4	7.1	7.0	7.0
27	6.8	6.8	6.8	6.3	6.2	6.3	6.4	6.3	6.4	7.1	7.0	7.0
28	6.8	6.7	6.8	6.4	6.3	6.3	6.4	6.3	6.4	7.1	7.0	7.0
29	---	---	---	6.4	6.3	6.4	6.5	6.3	6.4	7.1	7.0	7.1
30	---	---	---	6.4	6.3	6.4	6.6	6.4	6.5	7.2	7.1	7.1
31	---	---	---	6.4	6.4	6.4	---	---	---	7.2	7.1	7.1
MONTH	7.1	6.6	6.9	6.9	6.0	6.5	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	7.1	7.1	6.4	6.2	6.3	7.2	7.1	7.1	6.9	6.9	6.9
2	7.2	7.1	7.2	6.6	6.4	6.5	7.3	7.2	7.2	6.9	6.9	6.9
3	7.2	7.1	7.2	6.6	6.5	6.6	7.3	7.2	7.2	7.0	6.9	6.9
4	7.1	7.1	7.1	6.7	6.6	6.6	7.3	7.2	7.3	6.9	6.9	6.9
5	7.2	7.1	7.1	6.7	6.6	6.7	7.3	7.2	7.3	7.0	6.9	6.9
6	7.3	7.2	7.2	6.8	6.6	6.7	7.4	7.2	7.3	7.0	6.9	6.9
7	7.3	7.1	7.2	6.8	6.6	6.7	7.4	7.2	7.3	7.0	6.9	7.0
8	7.1	6.9	7.0	6.8	6.7	6.8	7.3	7.2	7.3	7.0	6.9	7.0
9	7.0	7.0	7.0	6.8	6.7	6.8	7.3	7.2	7.3	7.0	6.9	6.9
10	7.1	7.0	7.1	6.8	6.7	6.7	7.3	7.2	7.2	7.0	6.9	6.9
11	7.1	7.1	7.1	6.8	6.6	6.7	7.2	7.1	7.1	7.0	6.9	6.9
12	7.2	6.9	7.1	6.7	6.7	6.7	7.2	7.1	7.1	6.9	6.8	6.9
13	7.6	6.9	7.1	6.8	6.7	6.8	7.1	6.9	7.0	6.9	6.8	6.8
14	7.7	7.5	7.7	6.9	6.8	6.9	7.1	6.8	7.0	6.9	6.8	6.9
15	7.7	7.4	7.5	6.8	6.7	6.8	7.0	7.0	7.0	6.9	6.9	6.9
16	7.6	7.0	7.3	6.8	6.7	6.7	7.0	7.0	7.0	7.0	6.9	7.0
17	---	---	---	6.9	6.8	6.8	7.1	6.9	7.0	7.1	7.0	7.0
18	6.9	6.8	6.9	7.0	6.9	7.0	6.9	6.9	6.9	7.1	6.9	7.0
19	6.9	6.7	6.7	7.2	7.0	7.1	6.9	6.8	6.9	7.0	6.9	7.0
20	6.7	6.4	6.5	7.2	7.1	7.1	6.8	6.7	6.8	7.0	6.9	6.9
21	6.6	6.5	6.5	7.2	7.1	7.1	6.8	6.8	6.8	6.9	6.9	6.9
22	---	---	---	7.1	7.0	7.0	6.9	6.8	6.8	6.9	6.9	6.9
23	6.7	6.6	6.6	7.0	6.9	7.0	6.9	6.8	6.8	6.9	6.9	6.9
24	6.7	6.6	6.6	7.2	7.0	7.2	6.8	6.8	6.8	7.0	6.9	6.9
25	6.6	6.6	6.6	7.3	7.2	7.2	6.9	6.8	6.8	6.9	6.8	6.9
26	6.7	6.4	6.6	7.3	7.2	7.2	6.8	6.8	6.8	6.9	6.6	6.8
27	6.6	6.5	6.6	7.2	7.2	7.2	6.9	6.8	6.8	6.8	6.7	6.8
28	6.7	6.5	6.6	7.2	6.9	7.0	6.9	6.8	6.8	7.0	6.8	6.9
29	6.6	6.5	6.6	7.0	6.9	7.0	6.9	6.8	6.8	7.1	6.9	7.0
30	6.5	6.3	6.4	7.1	7.0	7.0	7.3	6.8	6.8	---	---	---
31	---	---	---	7.2	6.9	7.1	---	---	---	---	---	---
MONTH	---	---	---	7.3	6.2	6.9	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.1	20.8	21.0	16.3	15.2	15.7	10.0	9.4	9.6	4.2	3.2	3.5
2	21.2	20.8	21.1	15.9	15.1	15.5	9.4	8.5	9.0	4.0	2.9	3.2
3	21.6	21.1	21.4	15.9	15.5	15.8	8.5	7.1	7.9	3.6	2.6	2.9
4	22.4	21.4	21.9	16.1	15.6	15.8	7.4	6.3	6.8	2.7	2.3	2.5
5	22.8	21.8	22.3	16.7	15.9	16.4	7.0	6.0	6.3	2.8	2.6	2.7
6	23.4	22.5	23.0	16.1	15.7	15.9	6.2	5.3	5.7	3.1	2.6	2.8
7	23.7	22.9	23.3	15.9	15.6	15.8	6.1	5.3	5.7	3.4	2.5	2.9
8	23.5	21.2	22.3	15.9	15.4	15.7	6.7	5.6	6.2	3.5	3.4	3.4
9	21.2	19.6	20.5	16.2	15.6	15.9	7.2	6.5	6.9	4.3	3.5	3.7
10	19.6	18.5	19.1	17.0	16.1	16.6	7.4	7.2	7.3	4.9	3.4	3.9
11	18.5	17.3	17.9	17.0	16.6	16.8	7.5	7.1	7.4	4.6	3.7	4.0
12	18.0	17.0	17.5	16.6	15.8	16.2	8.0	7.4	7.7	4.8	4.0	4.3
13	18.7	17.5	18.1	15.8	15.3	15.5	7.8	7.4	7.6	5.3	4.4	4.8
14	18.8	17.7	18.3	15.3	14.6	15.0	7.8	7.4	7.6	5.7	4.8	5.1
15	18.9	18.2	18.6	14.6	13.9	14.2	8.1	7.6	7.8	---	---	---
16	19.0	18.1	18.6	13.9	13.3	13.5	7.8	7.7	7.7	6.9	6.1	6.4
17	19.3	18.5	18.8	13.4	12.8	13.1	8.6	7.7	8.3	6.5	6.0	6.3
18	19.3	18.9	19.1	12.8	12.2	12.4	8.7	8.1	8.3	6.5	6.2	6.4
19	19.6	18.9	19.3	12.3	11.9	12.1	8.3	7.8	8.0	6.8	6.4	6.5
20	19.5	18.8	19.1	11.9	11.4	11.7	8.0	7.0	7.4	6.8	6.6	6.6
21	19.2	18.4	18.8	11.4	10.8	11.1	7.0	5.8	6.4	7.0	6.2	6.6
22	18.9	18.3	18.7	10.8	10.0	10.3	6.3	5.8	6.0	6.5	5.7	6.0
23	19.1	18.4	18.7	10.2	9.5	9.9	6.0	5.2	5.7	5.8	5.3	5.5
24	18.8	18.1	18.5	9.5	9.0	9.2	5.6	5.0	5.3	5.4	4.9	5.2
25	18.7	18.0	18.3	9.0	8.6	8.7	5.3	4.4	4.9	5.3	4.6	4.9
26	18.3	17.9	18.1	9.2	8.9	9.0	5.0	3.7	4.2	5.6	4.5	4.9
27	18.5	17.9	18.1	10.1	9.2	9.7	3.8	3.4	3.6	5.3	4.5	4.9
28	18.9	18.3	18.6	10.5	9.8	10.2	4.0	3.6	3.8	4.9	4.7	4.8
29	18.6	18.0	18.2	10.4	9.9	10.2	4.2	3.6	3.9	5.3	4.8	5.1
30	18.0	17.2	17.5	10.5	9.8	10.1	4.6	4.0	4.2	6.0	5.0	5.5
31	17.2	16.3	16.7	---	---	---	4.3	3.5	3.8	7.0	5.7	6.3
MONTH	23.7	16.3	19.4	17.0	8.6	13.3	10.0	3.4	6.5	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.7	6.9	10.3	9.4	9.9	12.4	11.7	12.1	18.3	17.6	18.0
2	7.1	6.5	6.8	9.9	9.4	9.6	12.7	11.9	12.3	19.0	17.6	18.3
3	6.9	6.2	6.5	9.6	9.2	9.4	11.9	11.4	11.6	20.1	18.4	19.1
4	6.4	5.6	5.9	9.5	8.8	9.1	12.0	11.5	11.8	21.0	19.1	19.9
5	6.1	5.6	5.8	9.6	9.1	9.5	12.0	11.4	11.7	---	---	---
6	6.3	5.5	6.0	9.1	8.4	8.7	12.7	11.9	12.1	20.8	20.1	20.4
7	6.9	6.2	6.5	8.4	7.7	8.0	---	---	---	20.5	19.0	19.8
8	7.6	6.6	7.1	8.6	7.3	8.0	---	---	---	20.0	18.7	19.4
9	8.4	7.2	7.8	9.1	8.4	8.7	15.6	14.4	15.1	19.7	18.5	19.1
10	9.4	8.2	8.8	9.0	8.4	8.7	---	---	---	21.1	18.9	19.9
11	9.3	8.4	8.9	9.3	8.3	8.9	16.4	15.8	16.1	21.7	20.1	20.9
12	8.4	7.8	8.2	10.0	9.3	9.6	16.2	15.8	16.0	21.7	20.6	21.2
13	8.2	7.4	7.8	11.4	9.9	10.7	16.8	15.9	16.4	21.7	21.2	21.5
14	7.9	7.4	7.6	12.0	11.1	11.5	16.8	15.9	16.4	21.8	21.2	21.5
15	8.6	7.5	8.1	11.3	10.9	11.1	17.1	16.3	16.7	21.2	20.2	20.5
16	9.8	8.6	9.2	12.1	11.1	11.5	17.2	16.7	17.0	20.5	20.0	20.3
17	10.0	9.5	9.8	11.9	11.1	11.5	17.1	15.7	16.3	20.0	19.5	19.7
18	9.6	9.0	9.3	11.8	11.0	11.3	15.7	14.4	15.0	19.8	19.3	19.6
19	9.1	8.1	8.7	11.7	10.7	11.3	14.5	13.5	14.0	21.1	19.8	20.4
20	8.4	7.8	8.2	11.4	11.1	11.3	14.4	13.5	14.0	21.8	21.1	21.4
21	8.7	8.2	8.5	11.9	11.2	11.5	15.2	14.4	14.8	22.5	21.8	22.2
22	8.5	8.0	8.3	11.8	10.8	11.3	16.3	15.2	15.7	23.0	22.5	22.8
23	8.4	7.9	8.2	12.2	11.1	11.6	17.5	16.2	16.7	23.0	22.3	22.8
24	8.0	7.3	7.7	12.4	11.9	12.2	18.3	17.3	17.8	23.1	22.0	22.5
25	8.7	7.9	8.2	12.4	11.9	12.2	18.4	17.3	17.8	23.9	22.8	23.3
26	9.4	8.4	8.9	12.0	11.0	11.4	17.5	16.8	17.1	24.2	23.1	23.6
27	10.4	9.1	9.8	11.7	10.9	11.2	17.1	16.5	16.8	23.3	22.3	22.9
28	10.4	9.7	10.1	11.5	10.8	11.1	17.2	16.4	16.7	23.0	22.2	22.6
29	---	---	---	11.3	10.8	11.0	17.3	16.9	17.1	22.3	22.0	22.2
30	---	---	---	11.8	11.0	11.4	17.9	17.0	17.5	22.7	21.6	22.2
31	---	---	---	11.8	11.3	11.5	---	---	---	23.0	22.4	22.6
MONTH	10.4	5.5	8.0	12.4	7.3	10.5	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.3	22.6	22.9	28.2	26.9	27.5	25.4	24.5	24.9	28.4	27.8	28.2
2	23.2	22.8	23.0	28.2	26.4	27.3	26.1	25.0	25.6	27.8	27.0	27.4
3	23.0	22.3	22.6	26.9	26.2	26.5	26.9	25.8	26.3	27.5	26.9	27.3
4	23.2	22.3	22.7	27.1	26.6	26.8	27.0	26.5	26.8	27.4	27.1	27.3
5	23.7	23.0	23.3	27.4	26.3	26.9	27.5	26.5	27.0	27.4	26.9	27.1
6	23.7	23.3	23.5	27.8	26.9	27.3	28.0	26.7	27.3	27.3	26.7	27.0
7	24.0	23.2	23.5	27.8	27.4	27.5	28.3	27.5	27.7	27.1	26.5	26.9
8	23.7	22.8	23.1	27.7	26.7	27.3	28.1	27.5	27.8	27.3	26.6	27.0
9	24.2	23.7	23.9	27.7	26.5	27.0	28.3	27.9	28.1	27.2	26.8	26.9
10	24.2	23.7	23.9	27.9	26.9	27.4	29.5	28.0	28.9	27.1	26.5	26.9
11	24.1	23.4	23.7	28.0	27.5	27.8	29.4	29.1	29.3	27.2	26.6	26.9
12	24.4	23.8	24.1	27.6	27.2	27.4	29.8	28.8	29.3	26.9	26.3	26.7
13	24.4	23.9	24.1	27.3	26.6	26.9	29.5	29.0	29.3	26.5	26.2	26.3
14	24.4	23.7	24.0	26.7	25.7	26.1	29.0	28.4	28.7	26.2	25.2	25.9
15	24.4	23.5	23.8	26.1	25.6	25.9	28.6	28.0	28.3	25.3	24.2	24.9
16	23.6	22.8	23.2	26.7	25.8	26.2	28.9	28.3	28.6	24.2	23.4	23.7
17	---	---	---	27.6	26.3	26.9	29.4	28.3	28.8	23.8	23.2	23.5
18	23.7	22.9	23.2	28.2	27.0	27.5	29.2	28.6	29.0	23.7	22.7	23.2
19	24.0	23.2	23.6	28.0	27.0	27.4	28.6	28.4	28.5	23.8	22.9	23.3
20	24.5	23.5	23.9	27.0	26.3	26.7	28.4	27.3	27.7	24.0	23.4	23.7
21	24.8	23.8	24.3	26.6	26.0	26.3	28.2	27.5	27.9	24.2	23.7	23.9
22	---	---	---	26.5	25.8	26.2	28.0	27.3	27.6	24.6	23.8	24.2
23	25.7	25.1	25.5	26.8	26.3	26.5	28.2	27.4	27.8	24.7	24.1	24.5
24	25.3	24.7	25.0	27.5	26.7	27.1	28.3	27.8	28.1	25.1	24.4	24.7
25	25.5	24.4	24.9	27.5	26.7	27.1	28.1	27.5	27.9	25.1	24.3	24.9
26	25.9	24.6	25.1	27.2	26.2	26.7	27.5	27.1	27.2	24.3	22.9	23.6
27	26.5	25.7	26.1	26.4	26.0	26.2	28.0	27.0	27.4	22.9	22.4	22.7
28	26.7	25.9	26.3	26.0	25.6	25.9	28.2	27.6	27.9	22.9	22.2	22.5
29	26.7	25.4	26.0	25.8	25.1	25.5	28.3	27.7	28.0	22.3	21.7	21.9
30	27.5	26.4	26.8	25.2	24.9	25.0	28.4	27.6	28.1	---	---	---
31	---	---	---	25.0	24.6	24.8	28.6	27.7	28.2	---	---	---
MONTH	---	---	---	28.2	24.6	26.7	29.8	24.5	27.9	---	---	---

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.7	7.4	7.6	8.4	7.9	8.2	9.8	7.1	8.3	9.3	7.6	8.7
2	7.8	7.5	7.6	8.6	8.2	8.4	10.0	8.1	9.5	12.9	7.3	9.7
3	7.9	7.2	7.6	8.7	8.1	8.4	10.0	8.6	9.6	13.0	8.4	9.9
4	7.6	7.1	7.4	8.7	8.3	8.5	9.3	7.7	8.5	13.9	12.9	13.7
5	7.4	6.8	7.2	8.6	8.3	8.4	11.4	8.3	9.7	13.8	13.5	13.6
6	7.3	6.8	7.1	8.6	8.0	8.4	10.4	8.0	8.8	13.7	13.2	13.5
7	7.2	6.7	7.0	8.8	7.9	8.5	11.3	8.3	9.9	13.6	12.5	13.1
8	7.2	7.0	7.1	8.9	7.8	8.1	11.0	8.9	10.2	13.1	10.9	11.8
9	7.5	7.2	7.4	8.8	7.9	8.6	10.8	9.1	10.1	11.4	9.4	10.5
10	7.7	7.4	7.5	8.8	7.9	8.6	11.1	10.6	10.9	12.7	9.2	10.4
11	8.1	7.7	7.9	8.7	8.3	8.4	11.1	10.1	10.8	11.3	9.1	10.2
12	8.2	7.9	8.1	8.6	8.4	8.5	11.1	10.1	10.7	---	---	---
13	8.1	7.8	7.9	8.9	8.4	8.6	10.7	8.6	9.6	---	---	---
14	7.9	7.6	7.8	9.0	8.6	8.8	11.1	9.1	9.8	---	---	---
15	8.0	7.5	7.8	9.4	8.8	9.1	10.6	9.5	9.9	---	---	---
16	7.8	7.5	7.7	9.6	9.2	9.4	10.2	7.2	8.3	---	---	---
17	7.6	7.2	7.4	9.8	9.4	9.6	11.2	9.1	10.7	---	---	---
18	7.4	7.1	7.2	10.0	8.8	9.8	9.2	7.2	7.9	---	---	---
19	7.3	7.1	7.2	10.3	9.8	10.0	10.0	7.4	8.6	---	---	---
20	7.3	7.1	7.2	10.8	9.1	10.3	10.1	7.5	8.7	---	---	---
21	7.5	7.1	7.3	9.8	9.3	9.6	11.6	8.6	10.5	---	---	---
22	7.5	7.2	7.4	9.9	8.1	9.3	11.6	11.4	11.5	---	---	---
23	7.6	7.3	7.4	8.3	5.1	6.4	11.9	11.4	11.7	---	---	---
24	7.5	7.3	7.4	7.6	3.6	5.1	11.7	10.3	11.3	---	---	---
25	7.6	7.3	7.4	10.6	3.7	5.9	11.6	7.9	10.2	---	---	---
26	7.5	7.2	7.4	10.1	7.1	9.1	9.4	7.6	8.3	---	---	---
27	7.4	7.2	7.3	10.3	6.9	9.1	8.7	8.0	8.4	---	---	---
28	7.5	7.2	7.4	10.2	9.1	9.5	12.9	8.2	10.5	---	---	---
29	7.6	7.3	7.4	9.6	8.7	9.1	12.1	11.1	11.5	---	---	---
30	7.7	7.4	7.6	9.3	7.1	8.4	12.3	11.1	11.8	---	---	---
31	8.0	7.5	7.8	---	---	---	12.1	9.1	11.1	---	---	---
MONTH	8.2	6.7	7.5	10.8	3.6	8.6	12.9	7.1	9.9	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	11.0	10.5	10.8	9.2	8.5	8.8	7.7	6.8	7.3
2	---	---	---	11.3	10.6	10.9	9.3	8.9	9.2	7.5	7.0	7.3
3	---	---	---	11.2	10.9	11.0	9.5	9.2	9.4	7.3	7.0	7.2
4	---	---	---	11.2	11.0	11.1	9.6	9.3	9.4	7.2	6.9	7.1
5	12.3	11.9	12.1	11.1	10.6	10.9	9.6	9.4	9.5	---	---	---
6	12.2	11.8	12.0	11.4	10.4	10.9	9.8	8.9	9.3	7.3	6.9	7.1
7	12.1	11.6	11.9	11.2	10.6	10.9	---	---	---	7.7	6.8	7.2
8	11.8	11.3	11.6	11.5	11.1	11.3	---	---	---	7.9	6.7	7.3
9	11.9	11.2	11.5	11.7	11.4	11.6	8.3	7.9	8.1	7.8	6.9	7.4
10	11.7	10.9	11.3	11.5	11.2	11.4	---	---	---	7.8	6.9	7.4
11	11.2	10.9	11.1	11.5	11.0	11.3	8.0	7.3	7.7	7.6	7.0	7.3
12	11.3	11.0	11.2	11.4	10.9	11.1	8.0	7.5	7.7	7.4	6.6	7.0
13	11.6	11.0	11.3	10.9	10.5	10.7	7.8	7.2	7.5	7.3	6.3	6.7
14	11.6	11.1	11.4	10.5	10.0	10.2	7.6	6.9	7.2	7.1	6.4	6.7
15	11.5	11.3	11.4	10.6	10.2	10.4	7.2	6.7	6.9	7.0	5.8	6.5
16	11.4	11.1	11.2	10.3	9.7	10.0	6.8	6.1	6.4	7.2	5.5	6.3
17	11.2	10.9	11.0	10.0	9.6	9.9	6.8	5.6	6.0	7.2	6.4	6.9
18	10.9	10.3	10.5	10.1	9.7	9.8	6.3	5.5	5.8	7.4	6.7	7.0
19	10.8	10.3	10.6	10.4	9.3	9.9	6.7	5.6	5.9	7.3	6.6	6.9
20	10.9	10.6	10.7	9.9	9.1	9.5	7.1	5.7	6.4	7.3	6.3	6.7
21	11.2	10.7	10.9	9.6	9.0	9.2	7.3	6.3	6.8	7.0	6.0	6.6
22	11.4	10.7	11.0	9.6	9.2	9.4	6.9	5.9	6.3	7.2	6.1	6.7
23	11.7	11.1	11.5	9.6	8.8	9.2	6.7	5.9	6.3	6.9	5.6	6.1
24	12.0	11.4	11.7	9.4	8.7	8.9	7.0	5.9	6.4	7.1	5.6	6.4
25	12.0	11.6	11.8	9.5	9.0	9.3	7.1	5.8	6.4	7.4	6.1	6.8
26	11.9	11.6	11.7	9.8	9.1	9.5	7.4	6.4	6.9	7.7	6.5	7.2
27	11.8	11.0	11.5	9.9	9.0	9.6	7.4	6.3	6.9	8.0	7.2	7.6
28	11.0	10.5	10.7	10.0	9.6	9.8	7.2	6.5	6.9	7.9	7.3	7.6
29	---	---	---	10.0	9.6	9.9	7.6	6.6	7.2	7.6	7.2	7.4
30	---	---	---	9.9	9.2	9.6	7.6	6.9	7.3	8.0	7.1	7.5
31	---	---	---	9.7	9.2	9.5	---	---	---	7.9	7.3	7.5
MONTH	---	---	---	11.7	8.7	10.2	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	7.4	7.7	6.3	5.6	6.0	---	---	---	6.5	6.0	6.2
2	8.1	7.6	7.9	6.2	5.7	6.0	---	---	---	6.3	5.9	6.1
3	8.1	7.5	7.8	6.2	5.8	6.0	---	---	---	6.6	6.0	6.2
4	7.8	7.2	7.4	6.4	5.8	6.0	---	---	---	6.5	5.8	6.1
5	8.3	7.5	7.8	6.6	6.3	6.5	---	---	---	6.5	6.1	6.3
6	8.3	7.9	8.1	6.5	6.1	6.3	---	---	---	6.6	6.0	6.3
7	8.2	7.2	7.8	6.6	6.2	6.4	---	---	---	6.9	6.3	6.6
8	7.3	6.8	7.0	6.5	6.1	6.4	---	---	---	6.8	6.5	6.7
9	7.3	7.0	7.1	6.4	5.9	6.2	---	---	---	6.7	6.3	6.5
10	7.3	6.8	7.0	6.7	6.2	6.4	---	---	---	6.3	5.9	6.2
11	7.2	6.6	6.9	6.5	6.1	6.3	---	---	---	6.8	6.0	6.4
12	7.1	6.0	6.6	6.5	6.2	6.3	---	---	---	6.5	6.1	6.3
13	6.7	4.3	5.5	6.4	6.1	6.3	---	---	---	6.5	6.1	6.3
14	6.1	4.3	4.9	6.4	6.1	6.3	---	---	---	6.6	6.2	6.4
15	5.7	4.5	5.1	6.2	5.9	6.1	6.4	6.1	6.2	6.7	6.3	6.5
16	5.9	3.8	5.2	6.5	5.9	6.2	6.3	6.1	6.2	6.9	6.3	6.6
17	---	---	---	7.0	6.3	6.7	6.7	6.1	6.4	6.9	6.5	6.7
18	---	---	---	6.9	6.4	6.6	6.5	6.2	6.3	7.1	6.6	6.8
19	---	---	---	6.6	6.1	6.3	6.3	6.1	6.2	7.2	6.8	7.0
20	---	---	---	6.4	5.9	6.2	6.1	5.7	5.8	7.2	6.8	6.9
21	---	---	---	6.8	6.1	6.5	6.0	5.8	5.9	7.0	6.8	6.9
22	---	---	---	6.7	6.2	6.5	6.3	5.9	6.1	7.2	6.6	6.9
23	---	---	---	6.9	6.2	6.7	6.7	6.1	6.4	---	---	---
24	---	---	---	6.8	6.5	6.7	6.5	6.2	6.3	---	---	---
25	---	---	---	6.5	6.1	6.3	6.6	6.2	6.4	---	---	---
26	---	---	---	6.5	6.2	6.4	6.5	6.3	6.4	---	---	---
27	6.1	5.7	5.9	6.8	6.4	6.6	6.5	6.3	6.4	6.4	6.0	6.1
28	6.4	5.4	5.9	6.7	6.3	6.5	7.1	6.5	6.8	6.9	6.4	6.6
29	6.1	5.1	5.6	6.7	6.2	6.5	7.0	6.5	6.7	7.2	6.8	6.9
30	6.1	5.7	5.9	6.3	5.8	6.1	6.6	5.8	6.5	---	---	---
31	---	---	---	---	---	---	6.7	6.3	6.5	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	87	72	85	84	80	82	87	63	73	71	57	66
2	88	84	86	86	83	84	86	70	83	97	55	73
3	89	82	86	88	82	85	85	71	81	96	63	74
4	87	82	85	89	84	86	77	63	70	102	95	101
5	86	79	83	88	85	86	93	67	78	102	99	100
6	86	80	83	87	81	86	84	63	70	102	98	100
7	85	79	83	88	79	85	90	65	79	101	94	98
8	83	81	82	90	78	81	90	73	83	99	82	89
9	84	80	82	89	80	87	89	74	83	86	71	79
10	82	80	81	91	82	88	92	88	91	98	70	79
11	86	82	84	90	85	87	93	84	90	87	69	78
12	86	83	84	88	85	87	93	84	90	---	---	---
13	86	83	84	89	85	87	90	72	80	---	---	---
14	85	80	83	89	85	87	93	76	82	---	---	---
15	85	81	84	92	86	89	90	80	84	---	---	---
16	85	80	82	93	88	90	86	60	69	---	---	---
17	82	79	80	93	90	91	96	78	91	---	---	---
18	80	77	78	94	82	92	78	62	68	---	---	---
19	80	77	78	96	91	94	84	63	73	---	---	---
20	80	77	78	99	84	95	84	62	72	---	---	---
21	81	76	78	89	85	88	93	70	85	---	---	---
22	81	78	79	89	72	83	94	92	93	---	---	---
23	81	78	80	74	45	56	95	90	93	---	---	---
24	81	78	79	66	31	44	93	81	89	---	---	---
25	81	78	79	91	32	51	91	61	80	---	---	---
26	80	76	78	87	62	79	72	59	64	---	---	---
27	79	76	77	91	60	80	66	61	63	---	---	---
28	81	77	79	91	81	85	98	62	80	---	---	---
29	80	78	79	86	77	81	93	84	88	---	---	---
30	80	78	79	83	63	75	95	86	90	---	---	---
31	82	78	80	---	---	---	92	69	85	---	---	---
MONTH	89	72	81	99	31	82	98	59	81	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	98	93	96	85	80	82	81	72	78
2	---	---	---	100	93	96	87	83	86	81	74	78
3	---	---	---	98	95	96	87	85	87	80	75	78
4	---	---	---	98	95	97	88	86	87	81	76	78
5	99	96	97	98	92	95	88	87	88	---	---	---
6	99	94	97	98	90	94	91	84	87	82	76	79
7	99	95	97	94	89	92	---	---	---	85	74	79
8	99	94	96	99	93	96	---	---	---	87	73	80
9	101	94	97	102	97	100	83	78	80	84	75	80
10	102	95	97	99	96	98	---	---	---	88	75	81
11	98	94	96	100	94	97	81	74	78	87	78	82
12	96	93	95	99	95	97	81	77	78	84	74	79
13	98	93	95	99	94	96	79	74	76	83	71	76
14	97	94	96	96	92	93	77	71	74	80	73	76
15	98	95	97	96	93	95	74	69	71	79	65	72
16	98	96	97	94	90	92	70	63	67	79	60	69
17	99	95	98	92	89	91	70	56	61	80	70	75
18	95	90	92	92	88	90	62	55	57	81	73	77
19	93	89	91	95	86	90	66	53	57	81	74	77
20	93	90	91	91	83	87	69	55	62	83	72	76
21	96	91	94	88	82	85	73	62	67	81	69	77
22	97	91	94	88	83	86	69	60	64	84	70	78
23	100	94	97	87	82	85	70	60	65	80	65	71
24	101	96	98	88	81	83	75	62	68	81	64	74
25	102	99	101	89	84	87	76	61	68	88	72	80
26	104	99	102	90	84	87	77	67	72	91	76	85
27	105	98	102	89	82	87	77	65	72	94	84	88
28	98	93	95	91	87	90	74	66	71	93	85	88
29	---	---	---	91	87	90	79	69	75	88	83	85
30	---	---	---	91	84	88	80	72	77	93	81	87
31	---	---	---	89	85	88	---	---	---	92	84	87
MONTH	---	---	---	102	81	92	---	---	---	---	---	---

0208102855 ROANOKE RIVER ABOVE SECONDARY ROAD 1100 NEAR GRABTOWN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	95	86	90	81	71	76	---	---	---	84	77	80
2	96	89	92	79	72	75	---	---	---	80	74	77
3	94	87	90	79	72	75	---	---	---	84	76	79
4	92	83	86	80	72	75	---	---	---	82	73	78
5	98	88	91	83	79	82	---	---	---	82	76	79
6	98	92	95	83	77	80	---	---	---	83	76	79
7	97	85	92	84	79	81	---	---	---	87	79	83
8	86	79	82	82	78	81	---	---	---	86	82	84
9	87	83	85	81	74	78	---	---	---	84	79	81
10	87	81	84	85	78	82	---	---	---	80	75	77
11	86	78	81	83	78	81	---	---	---	86	75	80
12	85	71	79	82	78	80	---	---	---	82	76	79
13	80	51	66	80	77	79	---	---	---	81	76	78
14	73	51	59	80	75	78	---	---	---	81	77	79
15	68	53	60	76	73	75	83	78	80	82	76	78
16	70	44	61	81	73	77	83	79	81	81	75	78
17	---	---	---	89	78	84	87	78	83	82	77	79
18	---	---	---	88	81	84	85	81	82	84	78	80
19	---	---	---	83	77	80	82	78	80	85	79	82
20	---	---	---	80	74	77	78	72	74	85	80	82
21	---	---	---	85	76	80	78	74	76	84	81	82
22	---	---	---	84	77	81	80	75	78	86	79	82
23	---	---	---	87	77	83	87	78	82	---	---	---
24	---	---	---	86	82	84	84	79	81	---	---	---
25	---	---	---	83	77	79	85	79	82	---	---	---
26	---	---	---	82	78	80	82	80	81	---	---	---
27	77	71	73	85	79	82	84	79	82	75	69	71
28	79	67	74	83	78	80	92	83	87	80	74	77
29	76	63	69	82	75	79	90	83	86	83	77	80
30	78	72	74	76	62	72	85	76	83	---	---	---
31	---	---	---	---	---	---	86	81	83	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

Gaging station and weir Tar River near Tar River, North Carolina.

02081054 ROANOKE RIVER AT WILLIAMSTON, NC

LOCATION.--Lat 35°51'40", long 77°02'20", 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 sea level. Satellite telemetry at station.

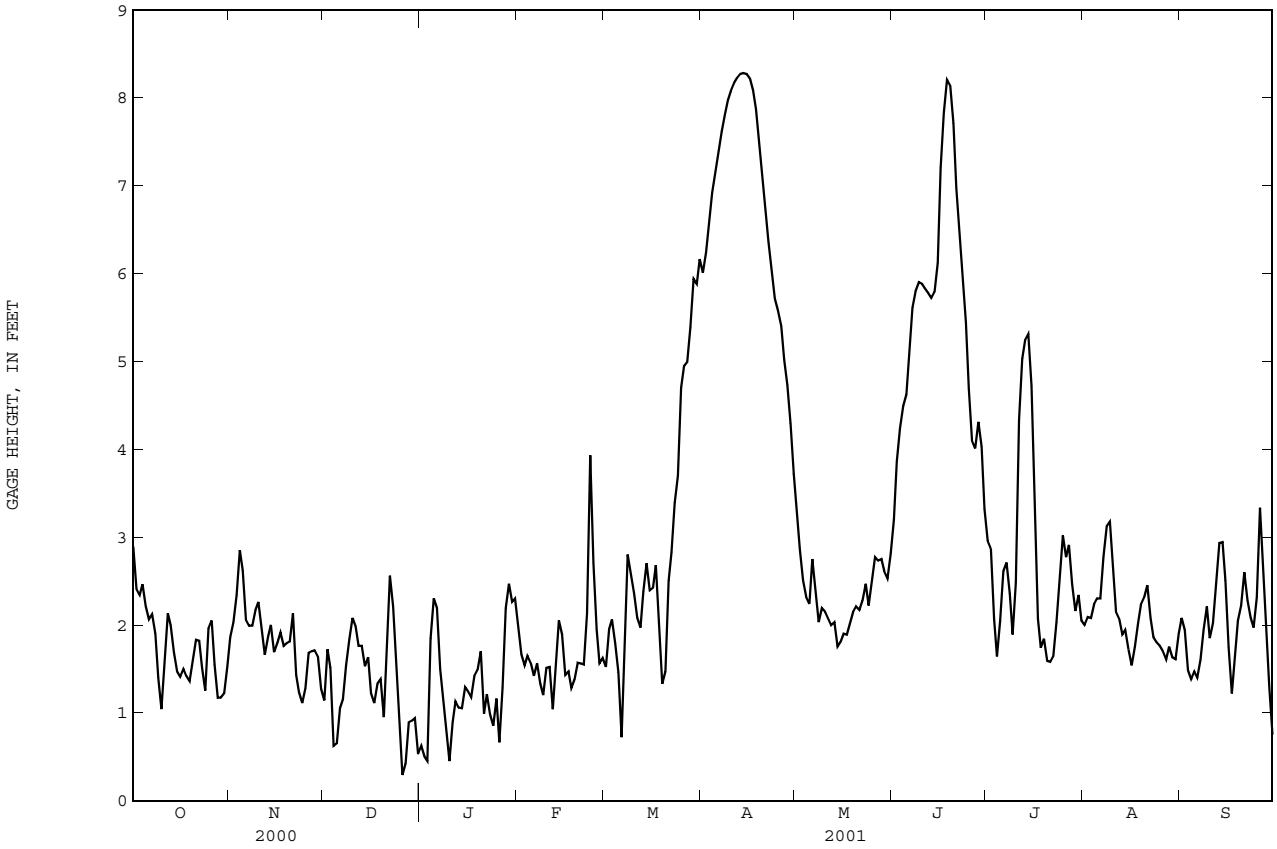
EXTREMES FOR PERIOD OF RECORD.--Maximum, 10.13 ft, Sept. 18, 1999; minimum, -0.35 ft, Jan. 4, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum, 8.31 ft, Apr. 15; minimum, 0.13 ft, Dec. 27, Jan. 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.89	1.86	1.14	.62	1.96	1.52	6.01	3.28	3.20	2.96	2.00	2.08
2	2.41	2.03	1.72	.50	1.66	1.95	6.24	2.86	3.86	2.87	2.09	1.94
3	2.34	2.34	1.51	.45	1.54	2.06	6.62	2.51	4.24	2.07	2.08	1.48
4	2.46	2.85	.62	1.84	1.65	1.79	6.92	2.32	4.49	1.64	2.24	1.38
5	2.21	2.62	.65	2.30	1.57	1.46	7.17	2.24	4.62	2.05	2.30	1.47
6	2.06	2.06	1.05	2.19	1.42	.72	7.40	2.75	5.14	2.61	2.30	1.40
7	2.12	1.99	1.15	1.50	1.56	1.81	7.62	2.41	5.61	2.71	2.78	1.60
8	1.90	1.99	1.54	1.15	1.33	2.80	7.81	2.03	5.80	2.36	3.12	1.95
9	1.40	2.17	1.83	.79	1.20	2.59	7.97	2.19	5.90	1.89	3.17	2.21
10	1.04	2.26	2.08	.45	1.51	2.36	8.08	2.15	5.88	2.48	2.70	1.85
11	1.64	1.94	1.98	.89	1.52	2.08	8.17	2.08	5.83	4.33	2.15	2.02
12	2.13	1.66	1.76	1.13	1.04	1.97	8.23	2.00	5.78	5.03	2.07	2.44
13	1.99	1.86	1.76	1.06	1.47	2.38	8.27	2.03	5.72	5.24	1.89	2.93
14	1.69	2.00	1.53	1.05	2.05	2.70	8.28	1.75	5.79	5.31	1.94	2.94
15	1.47	1.69	1.63	1.29	1.89	2.39	8.27	1.80	6.12	4.72	1.72	2.50
16	1.41	1.79	1.22	1.24	1.43	2.42	8.22	1.90	7.20	3.20	1.54	1.74
17	1.50	1.91	1.11	1.18	1.47	2.68	8.08	1.89	7.83	2.07	1.75	1.22
18	1.42	1.76	1.33	1.42	1.28	1.92	7.87	2.02	8.21	1.74	2.02	1.65
19	1.36	1.79	1.38	1.49	1.38	1.33	7.52	2.15	8.14	1.84	2.23	2.05
20	1.61	1.81	.95	1.70	1.57	1.47	7.12	2.21	7.71	1.59	2.31	2.22
21	1.83	2.13	1.82	.99	1.56	2.50	6.72	2.17	6.97	1.58	2.45	2.60
22	1.82	1.43	2.56	1.21	1.55	2.83	6.36	2.28	6.41	1.64	2.08	2.28
23	1.51	1.23	2.21	.98	2.13	3.39	6.03	2.47	5.95	2.03	1.86	2.08
24	1.25	1.11	1.43	.85	3.93	3.70	5.71	2.22	5.44	2.58	1.80	1.97
25	1.96	1.28	.83	1.16	2.70	4.70	5.57	2.49	4.69	3.02	1.76	2.31
26	2.05	1.68	.29	.66	1.95	4.94	5.40	2.77	4.10	2.77	1.70	3.33
27	1.55	1.70	.42	1.28	1.56	4.99	5.02	2.73	4.01	2.91	1.61	2.60
28	1.17	1.71	.89	2.19	1.62	5.39	4.73	2.75	4.31	2.46	1.75	1.99
29	1.17	1.64	.91	2.47	---	5.94	4.29	2.61	4.03	2.16	1.63	1.29
30	1.22	1.27	.94	2.26	---	5.88	3.72	2.53	3.32	2.34	1.61	.75
31	1.53	---	.53	2.30	---	6.16	---	2.81	---	2.05	1.90	---
MEAN	1.75	1.85	1.32	1.31	1.70	2.93	6.85	2.34	5.54	2.72	2.08	2.01
MAX	2.89	2.85	2.56	2.47	3.93	6.16	8.28	3.28	8.21	5.31	3.17	3.33
MIN	1.04	1.11	.29	.45	1.04	.72	3.72	1.75	3.20	1.58	1.54	.75

02081054 ROANOKE RIVER AT WILLIAMSTON, NC--Continued



0208108600 CONINE CREEK AT US HIGHWAY 17 NR WILLAMSTON, NC

LOCATION.--Lat 35°53'25", long 77°01'10", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, on bridge at U.S. Highway 17 and 3 mi northwest of Williamston.

DRAINAGE AREA.--8,940 mi^2.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

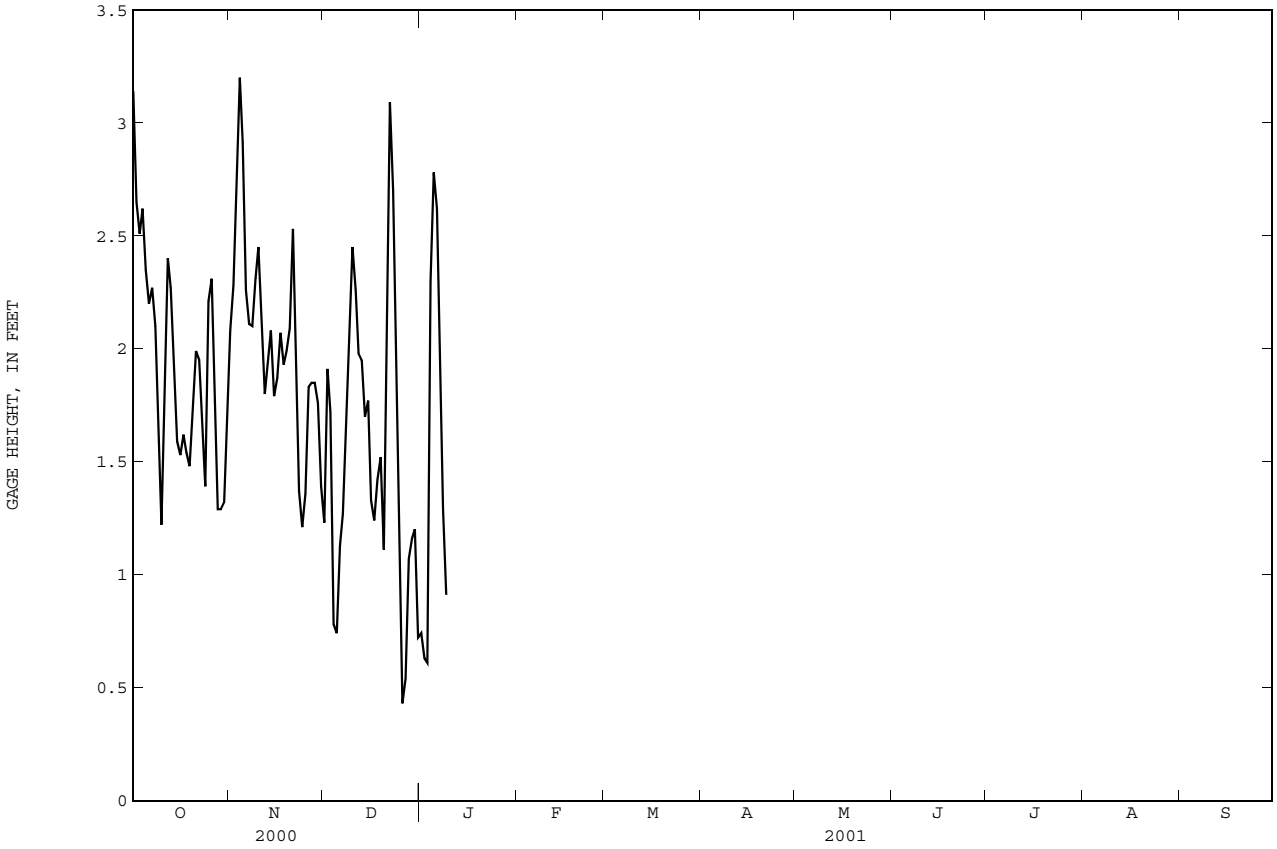
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, undetermined; minimum recorded gage height, 0.27 ft, Dec. 26, 27, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 3.28 ft, Nov. 4; minimum recorded gage height, 0.27 ft, Dec. 26, 27.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.14	2.08	1.23	.74	---	---	---	---	---	---	---	---
2	2.65	2.28	1.91	.63	---	---	---	---	---	---	---	---
3	2.51	2.64	1.72	.61	---	---	---	---	---	---	---	---
4	2.62	3.20	.78	2.30	---	---	---	---	---	---	---	---
5	2.35	2.91	.74	2.78	---	---	---	---	---	---	---	---
6	2.20	2.26	1.13	2.62	---	---	---	---	---	---	---	---
7	2.27	2.11	1.27	1.75	---	---	---	---	---	---	---	---
8	2.10	2.10	1.70	1.29	---	---	---	---	---	---	---	---
9	1.63	2.31	2.04	.91	---	---	---	---	---	---	---	---
10	1.22	2.45	2.45	---	---	---	---	---	---	---	---	---
11	1.83	2.15	2.26	---	---	---	---	---	---	---	---	---
12	2.40	1.80	1.98	---	---	---	---	---	---	---	---	---
13	2.27	1.94	1.95	---	---	---	---	---	---	---	---	---
14	1.88	2.08	1.70	---	---	---	---	---	---	---	---	---
15	1.59	1.79	1.77	---	---	---	---	---	---	---	---	---
16	1.53	1.87	1.33	---	---	---	---	---	---	---	---	---
17	1.62	2.07	1.24	---	---	---	---	---	---	---	---	---
18	1.54	1.93	1.42	---	---	---	---	---	---	---	---	---
19	1.48	1.99	1.52	---	---	---	---	---	---	---	---	---
20	1.72	2.09	1.11	---	---	---	---	---	---	---	---	---
21	1.99	2.53	2.17	---	---	---	---	---	---	---	---	---
22	1.95	1.74	3.09	---	---	---	---	---	---	---	---	---
23	1.64	1.37	2.70	---	---	---	---	---	---	---	---	---
24	1.39	1.21	1.74	---	---	---	---	---	---	---	---	---
25	2.21	1.36	1.01	---	---	---	---	---	---	---	---	---
26	2.31	1.83	.43	---	---	---	---	---	---	---	---	---
27	1.74	1.85	.54	---	---	---	---	---	---	---	---	---
28	1.29	1.85	1.07	---	---	---	---	---	---	---	---	---
29	1.29	1.76	1.16	---	---	---	---	---	---	---	---	---
30	1.32	1.39	1.20	---	---	---	---	---	---	---	---	---
31	1.65	---	.72	---	---	---	---	---	---	---	---	---
MEAN	1.91	2.03	1.52	---	---	---	---	---	---	---	---	---
MAX	3.14	3.20	3.09	---	---	---	---	---	---	---	---	---
MIN	1.22	1.21	.43	---	---	---	---	---	---	---	---	---

0208108600 CONINE CREEK AT US HIGHWAY 17 NR WILLAMSTON, NC--Continued



355326076565301 DEVILS GUT TRANSECT (SITE #1)

LOCATION.--Lat 35°53'27", long 76°56'52", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 7 mi south of Windsor and 8.1 mi north-northwest of Jamesville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

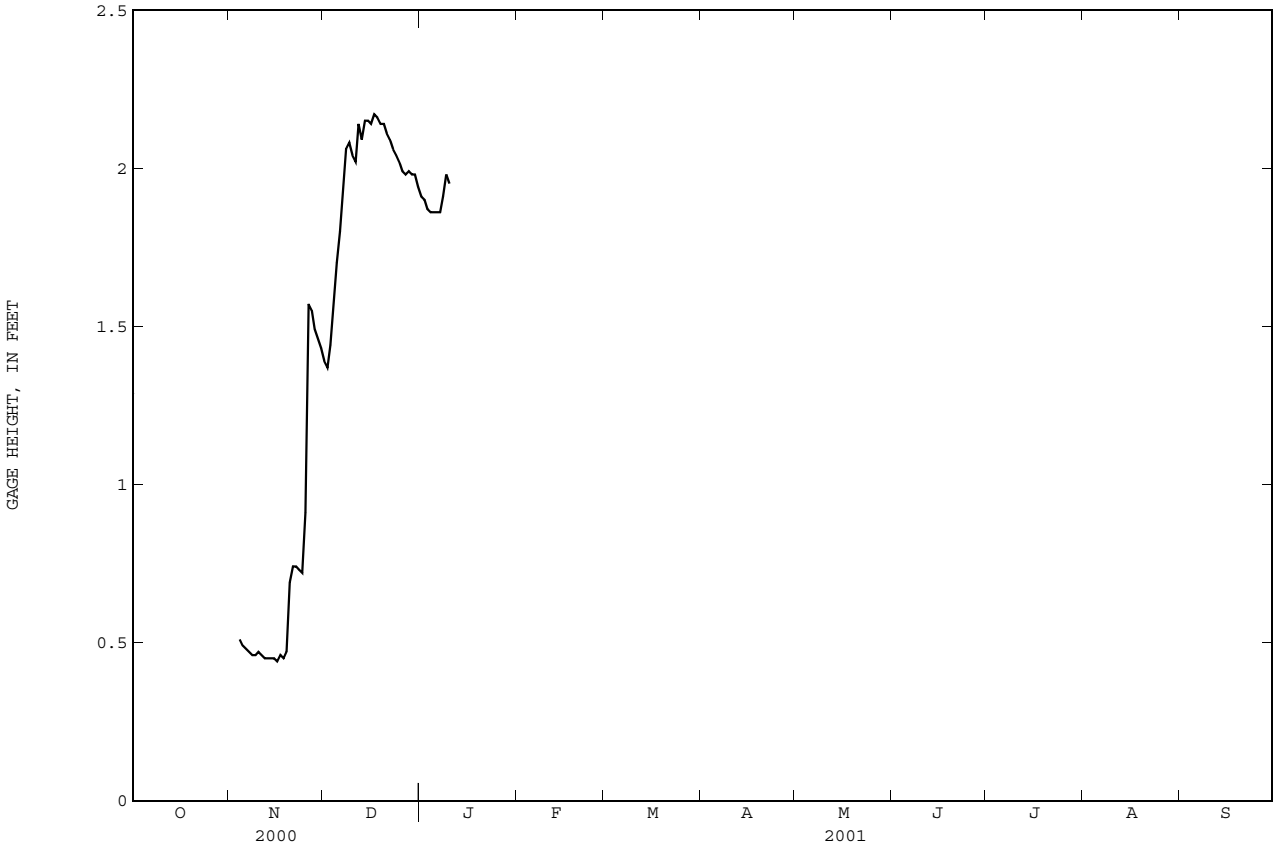
EXTREMES FOR PERIOD OF RECORD.--Maximum, 7.29 ft, Sept. 18, 19, 1999; minimum, -0.87 ft, Sept. 3, 4, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, undetermined; minimum, 0.44 ft, Nov. 13, 14, 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1.39	1.91	---	---	---	---	---	---	---	---
2	---	---	1.37	1.90	---	---	---	---	---	---	---	---
3	---	---	1.44	1.87	---	---	---	---	---	---	---	---
4	---	.51	1.56	1.86	---	---	---	---	---	---	---	---
5	---	.49	1.70	1.86	---	---	---	---	---	---	---	---
6	---	.48	1.80	1.86	---	---	---	---	---	---	---	---
7	---	.47	1.91	1.86	---	---	---	---	---	---	---	---
8	---	.46	2.06	1.91	---	---	---	---	---	---	---	---
9	---	.46	2.08	1.98	---	---	---	---	---	---	---	---
10	---	.47	2.04	1.95	---	---	---	---	---	---	---	---
11	---	.46	2.02	---	---	---	---	---	---	---	---	---
12	---	.45	2.14	---	---	---	---	---	---	---	---	---
13	---	.45	2.09	---	---	---	---	---	---	---	---	---
14	---	.45	2.15	---	---	---	---	---	---	---	---	---
15	---	.45	2.15	---	---	---	---	---	---	---	---	---
16	---	.44	2.14	---	---	---	---	---	---	---	---	---
17	---	.46	2.17	---	---	---	---	---	---	---	---	---
18	---	.45	2.16	---	---	---	---	---	---	---	---	---
19	---	.47	2.14	---	---	---	---	---	---	---	---	---
20	---	.69	2.14	---	---	---	---	---	---	---	---	---
21	---	.74	2.11	---	---	---	---	---	---	---	---	---
22	---	.74	2.09	---	---	---	---	---	---	---	---	---
23	---	.73	2.06	---	---	---	---	---	---	---	---	---
24	---	.72	2.04	---	---	---	---	---	---	---	---	---
25	---	.91	2.02	---	---	---	---	---	---	---	---	---
26	---	1.57	1.99	---	---	---	---	---	---	---	---	---
27	---	1.55	1.98	---	---	---	---	---	---	---	---	---
28	---	1.49	1.99	---	---	---	---	---	---	---	---	---
29	---	1.46	1.98	---	---	---	---	---	---	---	---	---
30	---	1.43	1.98	---	---	---	---	---	---	---	---	---
31	---	---	1.94	---	---	---	---	---	---	---	---	---
MEAN	---	---	1.96	---	---	---	---	---	---	---	---	---
MAX	---	---	2.17	---	---	---	---	---	---	---	---	---
MIN	---	---	1.37	---	---	---	---	---	---	---	---	---

355326076565301 DEVILS GUT TRANSECT (SITE #1)--Continued



355024076562301 DEVILS GUT TRANSECT (SITE #2)

LOCATION.--Lat 35°50'25", long 76°56'18", North American Datum 1983, Martin County, Hydrologic Unit 03010107, on Devils Gut approximately 3.15 mi upstream of confluence with Roanoke River and 3.1 mi north west of Jamesville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

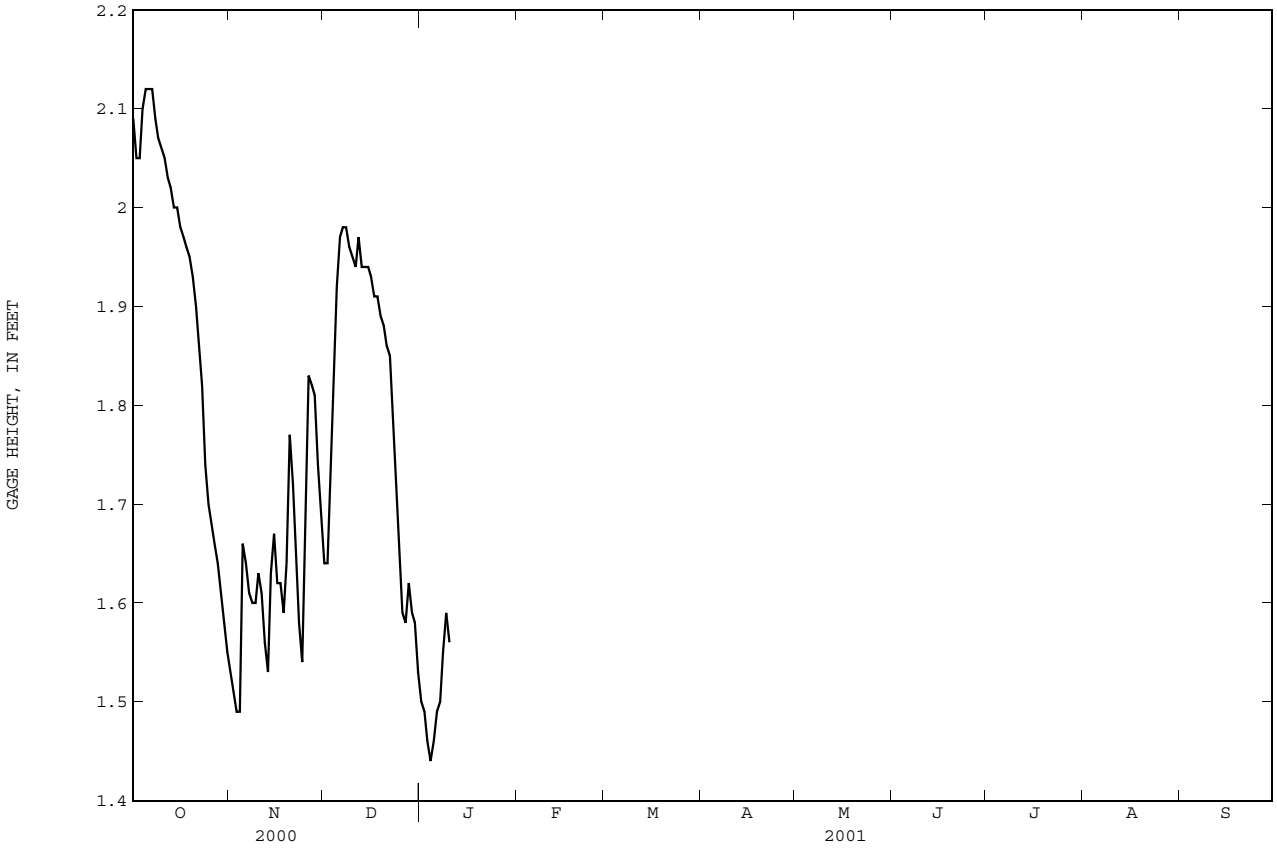
EXTREMES FOR PERIOD OF RECORD.--Maximum, 7.05 ft, Sept. 18, 19, 1999; minimum, 0.25 ft, July 10, 11, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 2.13 ft, Oct. 5, 6, 7; minimum, 1.41 ft, Jan. 4.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.09	1.53	1.64	1.50	---	---	---	---	---	---	---	---
2	2.05	1.51	1.64	1.49	---	---	---	---	---	---	---	---
3	2.05	1.49	1.70	1.46	---	---	---	---	---	---	---	---
4	2.10	1.49	1.80	1.44	---	---	---	---	---	---	---	---
5	2.12	1.66	1.92	1.46	---	---	---	---	---	---	---	---
6	2.12	1.64	1.97	1.49	---	---	---	---	---	---	---	---
7	2.12	1.61	1.98	1.50	---	---	---	---	---	---	---	---
8	2.09	1.60	1.98	1.55	---	---	---	---	---	---	---	---
9	2.07	1.60	1.96	1.59	---	---	---	---	---	---	---	---
10	2.06	1.63	1.95	1.56	---	---	---	---	---	---	---	---
11	2.05	1.61	1.94	---	---	---	---	---	---	---	---	---
12	2.03	1.56	1.97	---	---	---	---	---	---	---	---	---
13	2.02	1.53	1.94	---	---	---	---	---	---	---	---	---
14	2.00	1.63	1.94	---	---	---	---	---	---	---	---	---
15	2.00	1.67	1.94	---	---	---	---	---	---	---	---	---
16	1.98	1.62	1.93	---	---	---	---	---	---	---	---	---
17	1.97	1.62	1.91	---	---	---	---	---	---	---	---	---
18	1.96	1.59	1.91	---	---	---	---	---	---	---	---	---
19	1.95	1.64	1.89	---	---	---	---	---	---	---	---	---
20	1.93	1.77	1.88	---	---	---	---	---	---	---	---	---
21	1.90	1.72	1.86	---	---	---	---	---	---	---	---	---
22	1.86	1.64	1.85	---	---	---	---	---	---	---	---	---
23	1.82	1.58	1.78	---	---	---	---	---	---	---	---	---
24	1.74	1.54	1.72	---	---	---	---	---	---	---	---	---
25	1.70	1.65	1.65	---	---	---	---	---	---	---	---	---
26	1.68	1.83	1.59	---	---	---	---	---	---	---	---	---
27	1.66	1.82	1.58	---	---	---	---	---	---	---	---	---
28	1.64	1.81	1.62	---	---	---	---	---	---	---	---	---
29	1.61	1.74	1.59	---	---	---	---	---	---	---	---	---
30	1.58	1.69	1.58	---	---	---	---	---	---	---	---	---
31	1.55	---	1.53	---	---	---	---	---	---	---	---	---
MEAN	1.92	1.63	1.81	---	---	---	---	---	---	---	---	---
MAX	2.12	1.83	1.98	---	---	---	---	---	---	---	---	---
MIN	1.55	1.49	1.53	---	---	---	---	---	---	---	---	---

355024076562301 DEVILS GUT TRANSECT (SITE #2)--Continued



354900076554101 DEVILS GUT TRANSECT (SITE #3)

LOCATION.--Lat 35°49'03", long 76°55'28", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, approximately 1.85 mi west-northwest of Jamesville on U.S. Highway 64 and 0.3 mi north of U.S. Highway 64 on private dirt road.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

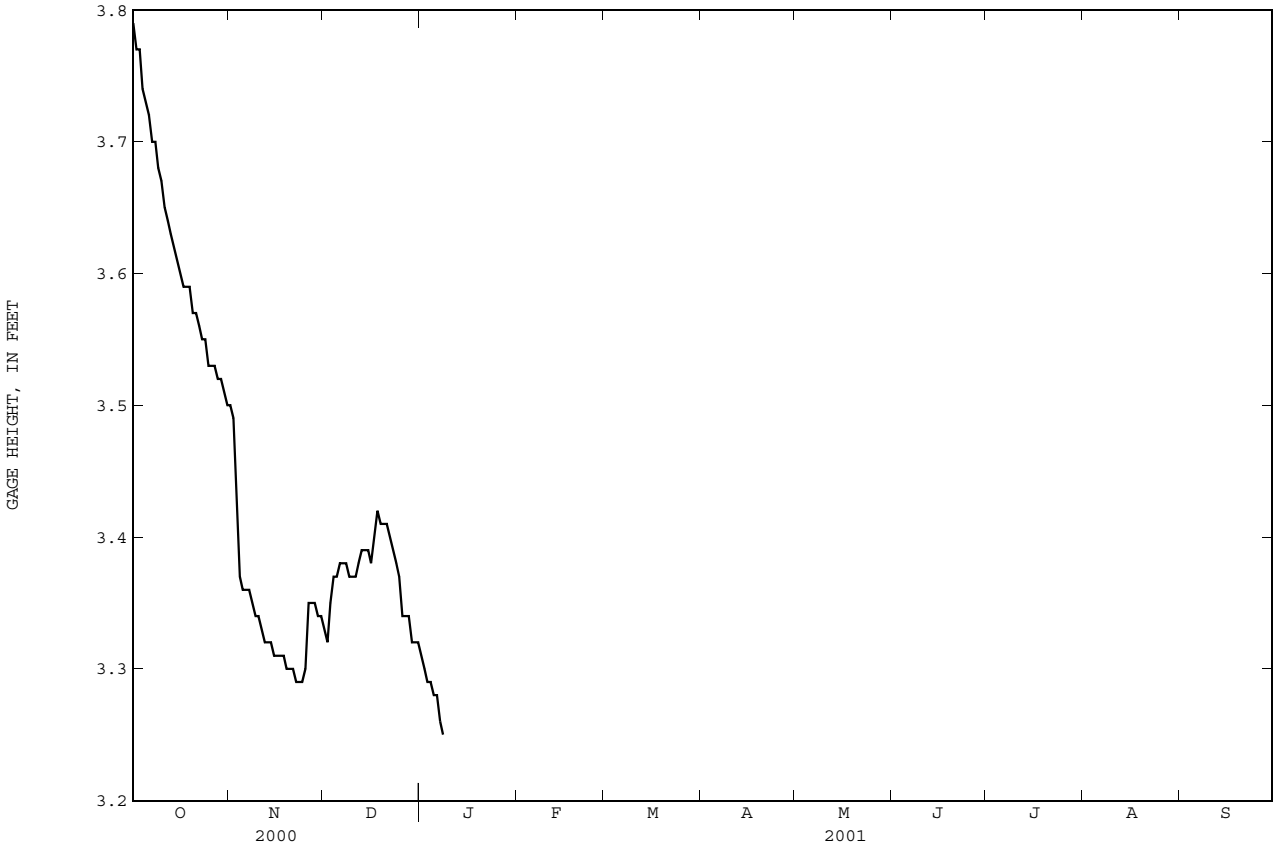
EXTREMES FOR PERIOD OF RECORD.--Maximum, 6.54 ft, Sept. 19, 1999; minimum, 1.73 ft, Aug. 29, 30, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum, 3.79 ft, Oct. 1; minimum, 3.25 ft, Jan. 8, 9.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.79	3.50	3.33	3.31	---	---	---	---	---	---	---	---
2	3.77	3.49	3.32	3.30	---	---	---	---	---	---	---	---
3	3.77	3.42	3.35	3.29	---	---	---	---	---	---	---	---
4	3.74	3.37	3.37	3.29	---	---	---	---	---	---	---	---
5	3.73	3.36	3.37	3.28	---	---	---	---	---	---	---	---
6	3.72	3.36	3.38	3.28	---	---	---	---	---	---	---	---
7	3.70	3.36	3.38	3.26	---	---	---	---	---	---	---	---
8	3.70	3.35	3.38	3.25	---	---	---	---	---	---	---	---
9	3.68	3.34	3.37	---	---	---	---	---	---	---	---	---
10	3.67	3.34	3.37	---	---	---	---	---	---	---	---	---
11	3.65	3.33	3.37	---	---	---	---	---	---	---	---	---
12	3.64	3.32	3.38	---	---	---	---	---	---	---	---	---
13	3.63	3.32	3.39	---	---	---	---	---	---	---	---	---
14	3.62	3.32	3.39	---	---	---	---	---	---	---	---	---
15	3.61	3.31	3.39	---	---	---	---	---	---	---	---	---
16	3.60	3.31	3.38	---	---	---	---	---	---	---	---	---
17	3.59	3.31	3.40	---	---	---	---	---	---	---	---	---
18	3.59	3.31	3.42	---	---	---	---	---	---	---	---	---
19	3.59	3.30	3.41	---	---	---	---	---	---	---	---	---
20	3.57	3.30	3.41	---	---	---	---	---	---	---	---	---
21	3.57	3.30	3.41	---	---	---	---	---	---	---	---	---
22	3.56	3.29	3.40	---	---	---	---	---	---	---	---	---
23	3.55	3.29	3.39	---	---	---	---	---	---	---	---	---
24	3.55	3.29	3.38	---	---	---	---	---	---	---	---	---
25	3.53	3.30	3.37	---	---	---	---	---	---	---	---	---
26	3.53	3.35	3.34	---	---	---	---	---	---	---	---	---
27	3.53	3.35	3.34	---	---	---	---	---	---	---	---	---
28	3.52	3.35	3.34	---	---	---	---	---	---	---	---	---
29	3.52	3.34	3.32	---	---	---	---	---	---	---	---	---
30	3.51	3.34	3.32	---	---	---	---	---	---	---	---	---
31	3.50	---	3.32	---	---	---	---	---	---	---	---	---
MEAN	3.62	3.34	3.37	---	---	---	---	---	---	---	---	---
MAX	3.79	3.50	3.42	---	---	---	---	---	---	---	---	---
MIN	3.50	3.29	3.32	---	---	---	---	---	---	---	---	---

354900076554101 DEVILS GUT TRANSECT (SITE #3)--Continued



0208108650 ROANOKE RIVER NR WOODARD, NC

LOCATION.--Lat 35°53'51", long 76°55'12", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, on left bank of river at private fishing pier, approximately 6.0 mi north-northwest of Jamesville.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

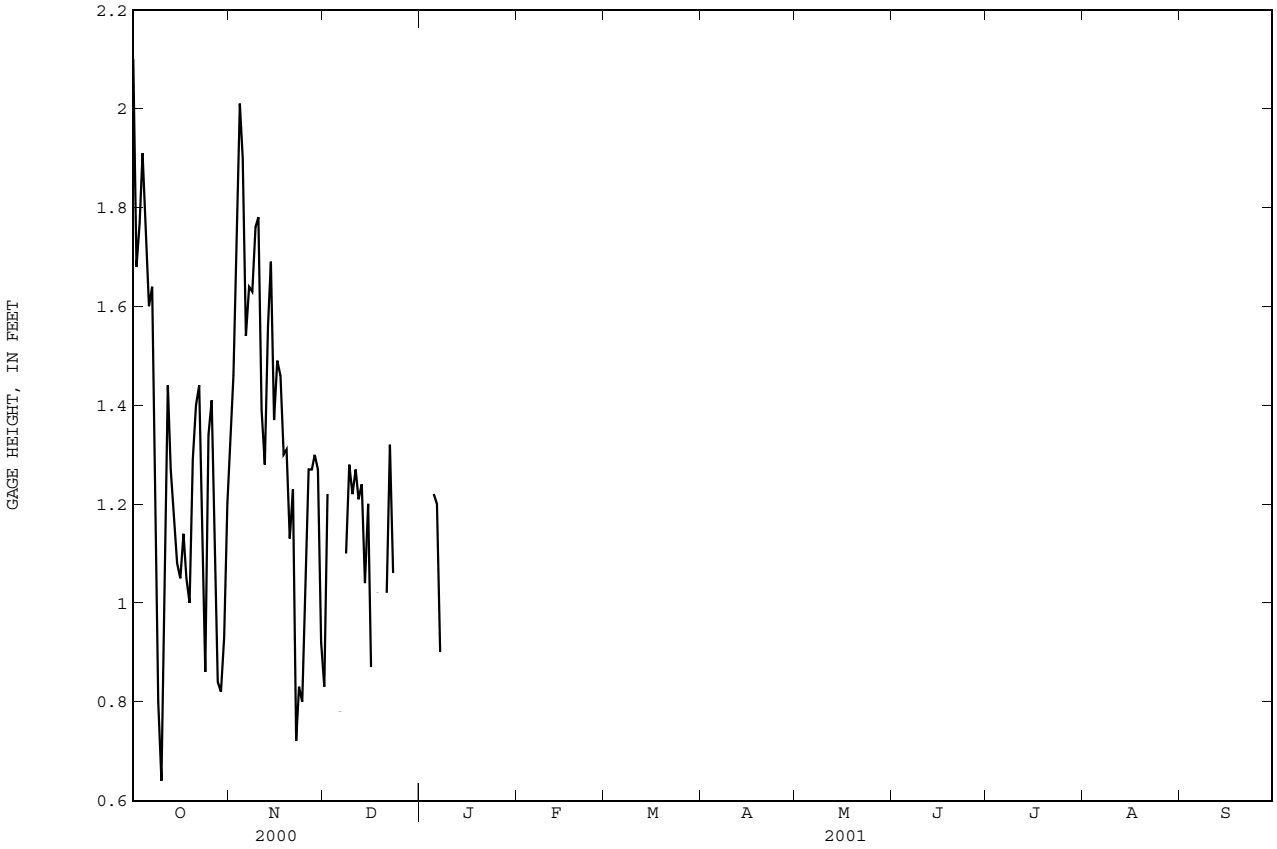
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 5.79 ft, Sept. 22, 23, 1996; minimum recorded gage height, -0.17 ft, Mar. 28, 1999.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 2.25 ft, Oct. 1; minimum recorded gage height, not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.10	1.34	.83	---	---	---	---	---	---	---	---	---
2	1.68	1.46	1.22	---	---	---	---	---	---	---	---	---
3	1.77	1.66	---	---	---	---	---	---	---	---	---	---
4	1.91	2.01	---	---	---	---	---	---	---	---	---	---
5	1.73	1.90	---	1.22	---	---	---	---	---	---	---	---
6	1.60	1.54	.78	1.20	---	---	---	---	---	---	---	---
7	1.64	1.64	---	.90	---	---	---	---	---	---	---	---
8	1.35	1.63	1.10	---	---	---	---	---	---	---	---	---
9	.80	1.76	1.28	---	---	---	---	---	---	---	---	---
10	.64	1.78	1.22	---	---	---	---	---	---	---	---	---
11	1.15	1.39	1.27	---	---	---	---	---	---	---	---	---
12	1.44	1.28	1.21	---	---	---	---	---	---	---	---	---
13	1.27	1.56	1.24	---	---	---	---	---	---	---	---	---
14	1.17	1.69	1.04	---	---	---	---	---	---	---	---	---
15	1.08	1.37	1.20	---	---	---	---	---	---	---	---	---
16	1.05	1.49	.87	---	---	---	---	---	---	---	---	---
17	1.14	1.46	---	---	---	---	---	---	---	---	---	---
18	1.05	1.30	1.02	---	---	---	---	---	---	---	---	---
19	1.00	1.31	---	---	---	---	---	---	---	---	---	---
20	1.29	1.13	---	---	---	---	---	---	---	---	---	---
21	1.40	1.23	1.02	---	---	---	---	---	---	---	---	---
22	1.44	.72	1.32	---	---	---	---	---	---	---	---	---
23	1.12	.83	1.06	---	---	---	---	---	---	---	---	---
24	.86	.80	---	---	---	---	---	---	---	---	---	---
25	1.34	.98	---	---	---	---	---	---	---	---	---	---
26	1.41	1.27	---	---	---	---	---	---	---	---	---	---
27	1.04	1.27	---	---	---	---	---	---	---	---	---	---
28	.84	1.30	---	---	---	---	---	---	---	---	---	---
29	.82	1.27	---	---	---	---	---	---	---	---	---	---
30	.93	.92	---	---	---	---	---	---	---	---	---	---
31	1.20	---	---	---	---	---	---	---	---	---	---	---
MEAN	1.27	1.38	---	---	---	---	---	---	---	---	---	---
MAX	2.10	2.01	---	---	---	---	---	---	---	---	---	---
MIN	.64	.72	---	---	---	---	---	---	---	---	---	---

0208108650 ROANOKE RIVER NR WOODARD, NC--Continued



02081094 ROANOKE RIVER AT JAMESVILLE, NC

LOCATION.--Lat 35°48'49", long 76°53'37", North American Datum of 1983, 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 District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

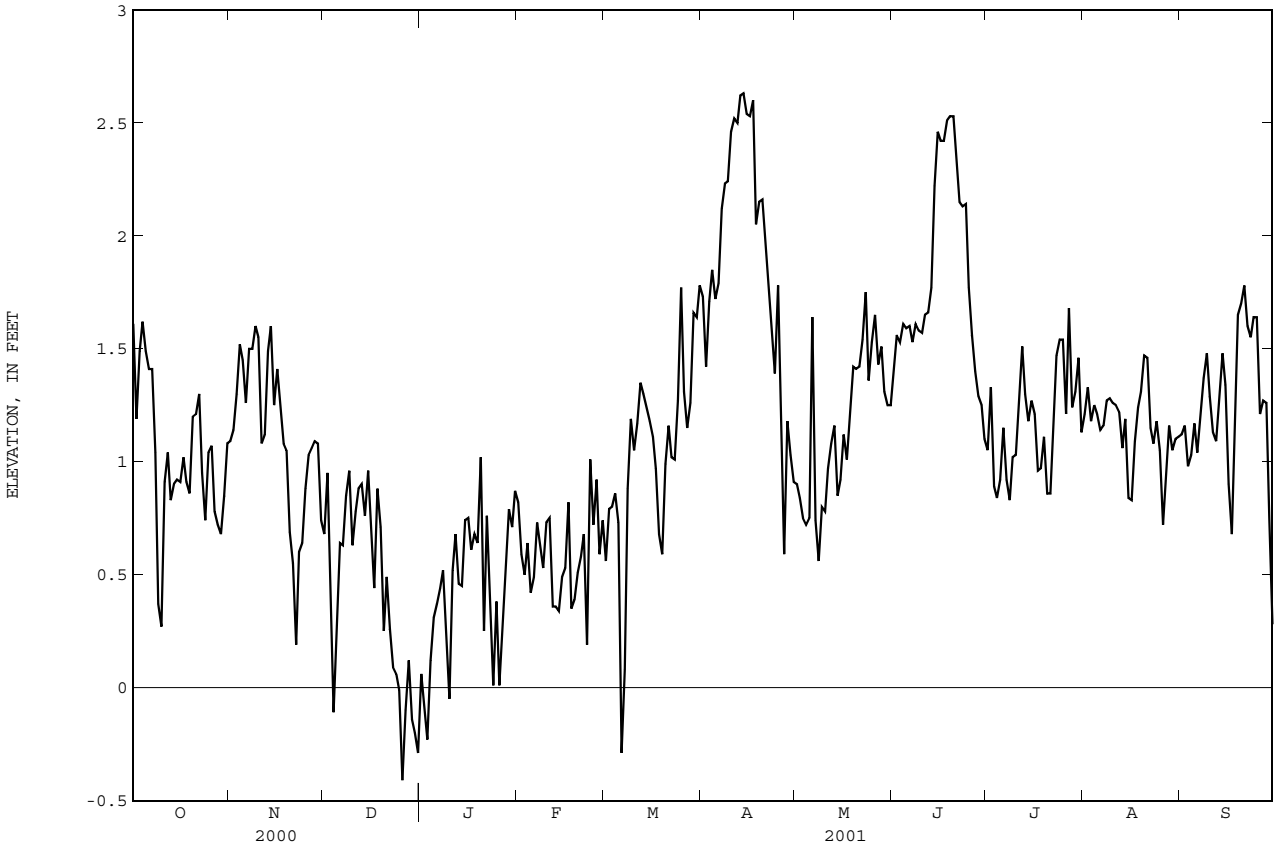
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.87 ft, Sept. 18, 19, 1999; minimum elevation, -1.14 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.73 ft, Apr. 17; minimum elevation, -0.88 ft, Mar. 6.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.61	1.09	.68	.06	.82	.56	1.73	.90	1.41	1.05	1.21	1.12
2	1.19	1.14	.95	-.08	.59	.79	1.42	.84	1.56	1.33	1.33	1.16
3	1.49	1.30	.57	-.23	.50	.80	1.71	.75	1.53	.89	1.18	.98
4	1.62	1.52	-.11	.12	.64	.86	1.85	.72	1.61	.84	1.25	1.03
5	1.49	1.45	.23	.31	.42	.73	1.72	.75	1.59	.92	1.21	1.17
6	1.41	1.26	.64	.37	.49	-.29	1.79	1.64	1.60	1.15	1.14	1.04
7	1.41	1.50	.63	.44	.73	.08	2.12	.74	1.53	.92	1.16	1.20
8	1.04	1.50	.85	.52	.63	.88	2.23	.56	1.61	.83	1.27	1.37
9	.37	1.60	.96	.19	.53	1.19	2.24	.80	1.58	1.02	1.28	1.48
10	.27	1.55	.63	-.05	.73	1.05	2.46	.78	1.57	1.03	1.26	1.29
11	.91	1.08	.78	.52	.75	1.17	2.52	.97	1.65	1.29	1.25	1.13
12	1.04	1.12	.88	.68	.36	1.35	2.50	1.08	1.66	1.51	1.22	1.09
13	.83	1.49	.90	.46	.36	1.30	2.62	1.16	1.77	1.30	1.06	1.29
14	.90	1.60	.76	.45	.34	1.24	2.63	.85	2.22	1.18	1.19	1.48
15	.92	1.25	.96	.74	.49	1.18	2.54	.92	2.46	1.27	.84	1.34
16	.91	1.41	.69	.75	.53	1.11	2.53	1.12	2.42	1.21	.83	.90
17	1.02	1.24	.44	.61	.82	.97	2.60	1.01	2.42	.96	1.09	.68
18	.91	1.08	.88	.68	.35	.68	2.05	1.23	2.51	.97	1.24	1.29
19	.86	1.05	.71	.64	.39	.59	2.15	1.42	2.53	1.11	1.31	1.65
20	1.20	.69	.25	1.02	.51	.99	2.16	1.41	2.53	.86	1.47	1.70
21	1.21	.55	.49	.25	.58	1.16	1.96	1.42	2.37	.86	1.46	1.78
22	1.30	.19	.26	.76	.68	1.02	1.79	1.54	2.15	1.11	1.15	1.60
23	.95	.60	.09	.38	.19	1.01	1.58	1.75	2.13	1.47	1.08	1.55
24	.74	.64	.06	.01	1.01	1.27	1.39	1.36	2.14	1.54	1.18	1.64
25	1.04	.88	-.01	.38	.72	1.77	1.78	1.53	1.77	1.54	1.05	1.64
26	1.07	1.03	-.41	.01	.92	1.31	1.24	1.65	1.56	1.21	.72	1.21
27	.78	1.06	-.10	.28	.59	1.15	.59	1.43	1.40	1.68	.95	1.27
28	.72	1.09	.12	.56	.74	1.26	1.18	1.51	1.29	1.24	1.16	1.26
29	.68	1.08	-.14	.79	---	1.66	1.03	1.31	1.25	1.31	1.05	.75
30	.85	.74	-.20	.71	---	1.64	.91	1.25	1.10	1.46	1.10	.28
31	1.08	---	-.29	.87	---	1.78	---	1.25	---	1.13	1.11	---
MEAN	1.03	1.13	.42	.43	.59	1.04	1.90	1.15	1.83	1.17	1.15	1.25
MAX	1.62	1.60	.96	1.02	1.01	1.78	2.63	1.75	2.53	1.68	1.47	1.78
MIN	.27	.19	-.41	-.23	.19	-.29	.59	.56	1.10	.83	.72	.28

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued



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 U.S. Fish and Wildlife Service 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	7.4, several days during period	5.6, May 3, 1998, September 18, 19, 1999
WATER TEMPERATURE, °C	30.8, August 2, 1999	2.2, January 5, 6, 2001
DISSOLVED OXYGEN, mg/L	14.3, January 8, 1999	2.5, September 1, 1998
DISSOLVED OXYGEN, PERCENT SATURATION,%	112, January 8, 1999	31, September 1, 1998

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	164, February 17	58, June 20
pH, standard units	7.4, March 10, 11, 12, May 30, 31, June 1	5.9, May 28
WATER TEMPERATURE, °C	29.6, August 13	2.2, January 5, 6
DISSOLVED OXYGEN, mg/L	12.0, January 31	3.1, June 21, 22, 23
DISSOLVED OXYGEN, PERCENT SATURATION,%	98, February 9	36, June 22

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	93	89	91	131	119	125	124	123	123	126	117	121
2	98	92	96	136	131	135	125	117	122	117	113	115
3	104	98	102	134	133	134	125	119	124	115	113	114
4	106	102	104	133	119	128	130	119	125	120	114	115
5	106	98	101	125	119	123	133	130	132	129	120	127
6	111	102	105	128	120	124	133	132	132	128	117	125
7	110	102	106	127	119	122	132	119	129	117	113	115
8	111	107	109	120	117	119	119	113	114	115	111	112
9	116	107	113	123	118	121	132	117	128	124	115	121
10	121	115	119	131	122	128	132	130	131	122	117	119
11	121	113	118	133	124	129	134	123	129	125	122	124
12	126	113	122	134	131	133	131	119	125	125	117	122
13	121	109	114	135	132	134	128	117	122	136	117	126
14	121	111	119	134	128	131	126	114	121	139	136	138
15	120	111	117	133	128	131	121	114	116	137	136	137
16	120	113	115	135	126	130	128	119	123	139	137	138
17	121	109	115	135	123	128	131	123	128	140	139	140
18	124	109	115	136	134	135	123	121	122	139	132	136
19	124	117	120	134	130	131	140	121	130	139	132	136
20	130	123	127	133	130	132	133	127	130	136	127	131
21	131	127	129	132	122	128	141	131	137	134	131	132
22	127	122	126	131	124	128	144	126	135	132	123	128
23	129	122	126	128	122	125	132	123	128	132	124	128
24	130	126	129	129	116	118	125	116	120	126	122	124
25	131	127	129	124	120	123	125	115	117	131	126	129
26	130	121	126	123	114	118	120	116	118	130	128	129
27	132	126	130	124	113	115	122	116	119	129	126	128
28	131	128	129	132	124	129	128	121	123	127	117	124
29	128	116	123	130	128	129	131	116	121	129	115	123
30	119	114	116	129	124	127	133	131	133	130	120	126
31	125	119	123	---	---	---	133	126	130	125	122	123
MONTH	132	89	117	136	113	127	144	113	125	140	111	126

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	128	124	126	125	122	123	137	121	124	131	130	131
2	127	121	123	141	123	135	122	118	119	135	131	133
3	129	124	127	142	132	137	120	111	117	133	132	133
4	130	126	128	147	136	142	111	107	109	134	132	133
5	138	124	130	146	134	138	112	108	110	137	133	135
6	148	131	133	148	133	138	111	111	111	138	135	136
7	133	128	130	134	127	130	113	110	111	138	136	137
8	138	132	135	141	126	134	112	111	111	138	135	136
9	132	124	127	142	139	140	112	111	112	139	136	136
10	135	126	132	141	118	126	113	111	112	137	134	135
11	137	129	133	120	118	118	112	111	112	134	133	133
12	136	129	133	132	120	124	112	111	111	133	131	132
13	144	130	138	137	129	133	114	112	113	134	132	132
14	144	133	138	138	125	129	115	114	114	136	132	134
15	144	131	139	142	130	136	115	115	115	137	133	135
16	144	130	137	150	129	141	117	115	116	139	136	137
17	164	127	134	134	121	124	118	117	117	138	133	136
18	134	123	126	139	126	133	119	116	117	146	132	133
19	136	127	130	142	130	137	126	119	123	133	129	130
20	142	127	135	135	133	134	128	126	127	132	129	129
21	142	137	140	134	123	127	129	121	128	130	123	127
22	140	131	135	141	124	130	125	122	124	123	121	122
23	131	122	126	143	131	139	126	125	126	122	117	120
24	135	123	129	133	119	125	127	126	126	117	115	116
25	144	124	136	130	118	122	128	126	128	115	112	113
26	124	120	121	127	116	121	127	127	127	112	111	112
27	122	120	121	127	118	122	130	126	127	115	112	114
28	128	121	125	129	119	123	128	126	128	114	110	112
29	---	---	---	130	121	124	129	128	128	111	108	109
30	---	---	---	136	120	123	133	128	129	108	106	107
31	---	---	---	127	121	124	---	---	---	107	105	105
MONTH	164	120	131	150	116	130	137	107	119	146	105	127

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	106	104	105	116	104	110	108	102	106	144	137	141
2	106	104	105	116	107	110	110	108	109	145	135	141
3	119	104	105	116	109	112	110	108	109	146	144	145
4	141	100	110	121	114	119	112	109	110	146	133	138
5	100	99	100	120	113	116	114	110	111	136	133	135
6	100	97	98	120	113	115	121	114	118	133	129	130
7	101	98	99	126	117	123	121	118	120	141	130	136
8	101	86	95	126	117	121	123	116	120	143	128	133
9	90	83	85	118	112	114	124	112	120	152	143	149
10	91	85	88	121	110	117	125	112	119	153	151	152
11	96	91	94	127	111	118	124	117	120	152	141	149
12	99	96	97	130	108	119	124	116	118	149	133	142
13	101	98	100	118	108	111	128	116	122	147	124	135
14	103	101	102	119	108	112	124	116	119	146	123	129
15	102	98	100	118	108	112	130	119	126	132	116	124
16	98	83	88	115	110	111	131	123	127	125	116	119
17	83	68	78	118	112	115	130	126	128	129	125	128
18	68	64	65	113	111	111	131	127	130	127	121	122
19	64	61	63	112	111	112	133	127	130	133	122	128
20	61	58	59	127	112	116	138	131	134	134	126	129
21	67	59	61	135	127	132	138	134	137	142	134	139
22	70	66	68	135	132	134	134	115	120	143	142	142
23	76	69	72	135	128	133	129	120	123	143	142	142
24	89	76	85	134	124	129	136	129	132	143	136	139
25	88	85	86	135	129	133	135	126	133	142	131	138
26	94	88	90	132	125	129	134	122	129	146	125	133
27	100	94	96	125	113	117	141	132	137	147	133	142
28	110	100	105	115	108	111	145	132	140	145	120	136
29	112	106	108	113	108	110	148	142	144	120	115	116
30	114	104	109	110	101	107	143	129	140	115	115	115
31	---	---	---	102	101	101	138	126	129	---	---	---
MONTH	141	58	91	135	101	117	148	102	125	153	115	135

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.6	6.6	6.6	6.9	6.8	6.8	6.8	6.7	6.8	7.0	7.0	7.0
2	6.6	6.5	6.6	6.9	6.9	6.9	6.8	6.8	6.8	7.0	7.0	7.0
3	6.7	6.6	6.7	6.9	6.9	6.9	6.8	6.8	6.8	7.0	7.0	7.0
4	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.8	6.8	7.0	7.0	7.0
5	6.7	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.8	7.1	7.0	7.0
6	6.8	6.7	6.7	6.9	6.9	6.9	6.8	6.7	6.8	7.1	7.1	7.1
7	6.8	6.8	6.8	6.9	6.8	6.8	6.8	6.7	6.7	7.1	7.1	7.1
8	6.9	6.8	6.8	6.8	6.8	6.8	6.8	6.7	6.7	7.1	7.1	7.1
9	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.8	6.8	7.1	7.0	7.0
10	7.0	6.9	6.9	6.8	6.7	6.8	6.8	6.8	6.8	7.0	7.0	7.0
11	6.9	6.9	6.9	6.8	6.7	6.7	6.8	6.8	6.8	7.0	7.0	7.0
12	7.0	6.9	7.0	6.8	6.7	6.8	6.9	6.8	6.8	7.0	7.0	7.0
13	7.0	6.9	6.9	6.8	6.7	6.7	6.9	6.8	6.8	7.0	7.0	7.0
14	6.9	6.9	6.9	6.7	6.7	6.7	6.9	6.8	6.8	7.0	7.0	7.0
15	6.9	6.9	6.9	6.7	6.7	6.7	6.9	6.8	6.9	7.0	7.0	7.0
16	6.9	6.8	6.9	6.7	6.7	6.7	6.9	6.8	6.9	7.0	6.9	7.0
17	6.9	6.8	6.9	6.8	6.7	6.8	6.9	6.7	6.8	7.0	6.9	7.0
18	6.9	6.8	6.9	6.8	6.8	6.8	6.8	6.7	6.8	7.0	7.0	7.0
19	6.9	6.9	6.9	6.8	6.8	6.8	6.8	6.7	6.8	7.0	7.0	7.0
20	6.9	6.8	6.9	6.9	6.8	6.8	6.9	6.8	6.9	7.1	7.0	7.0
21	6.9	6.9	6.9	6.9	6.8	6.8	6.9	6.8	6.9	7.0	7.0	7.0
22	6.9	6.9	6.9	6.9	6.8	6.9	6.9	6.9	6.9	7.0	6.9	7.0
23	6.9	6.9	6.9	6.9	6.9	6.9	7.0	6.9	6.9	7.1	7.0	7.0
24	6.9	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0	7.0	7.0	7.0
25	7.0	6.9	6.9	6.9	6.9	6.9	7.1	7.0	7.0	7.1	7.0	7.0
26	7.0	6.9	7.0	6.9	6.7	6.8	---	---	---	7.0	7.0	7.0
27	7.0	6.9	6.9	6.7	6.7	6.7	---	---	---	7.0	6.9	7.0
28	6.9	6.8	6.8	6.8	6.7	6.7	---	---	---	7.1	7.0	7.0
29	6.9	6.8	6.8	6.8	6.7	6.7	7.0	6.9	7.0	7.1	7.1	7.1
30	6.8	6.8	6.8	6.8	6.8	6.8	7.0	6.9	7.0	7.1	6.8	7.0
31	6.8	6.8	6.8	---	---	---	7.0	7.0	7.0	7.1	7.0	7.0
MONTH	7.0	6.5	6.8	6.9	6.7	6.8	---	---	---	7.1	6.8	7.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	7.0	7.0	7.2	7.1	7.1	7.1	7.0	7.0	6.7	6.7	6.7
2	7.1	7.0	7.0	7.2	7.1	7.1	7.0	6.9	7.0	6.7	6.5	6.7
3	7.0	7.0	7.0	7.1	7.1	7.1	7.0	6.8	7.0	6.7	6.6	6.7
4	7.0	7.0	7.0	7.1	7.1	7.1	7.0	7.0	7.0	6.8	6.7	6.7
5	7.1	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.0	6.8	6.8	6.8
6	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	6.8	6.8	6.8
7	7.1	7.1	7.1	7.3	7.1	7.2	7.0	6.9	7.0	6.8	6.8	6.8
8	7.1	7.1	7.1	7.3	7.3	7.3	6.9	6.7	6.8	6.8	6.8	6.8
9	7.1	7.1	7.1	7.3	7.3	7.3	6.8	6.7	6.7	6.9	6.8	6.9
10	7.1	7.0	7.1	7.4	7.3	7.3	6.7	6.6	6.7	6.9	6.9	6.9
11	7.1	7.0	7.0	7.4	7.3	7.4	6.6	6.6	6.6	6.9	6.9	6.9
12	7.1	7.0	7.0	7.4	7.3	7.3	6.6	6.6	6.6	6.9	6.9	6.9
13	7.0	7.0	7.0	7.3	7.2	7.3	6.6	6.6	6.6	7.0	6.9	6.9
14	7.1	7.0	7.0	7.3	7.2	7.2	6.6	6.6	6.6	7.0	6.9	7.0
15	7.1	7.0	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.0	7.0	7.0
16	7.2	7.0	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.0	6.9	7.0
17	7.2	7.1	7.2	7.2	7.1	7.2	6.6	6.5	6.6	7.0	7.0	7.0
18	7.2	7.1	7.1	7.2	7.2	7.2	6.6	6.5	6.6	7.0	6.9	7.0
19	7.2	7.1	7.1	7.2	7.2	7.2	6.6	6.6	6.6	7.1	7.0	7.1
20	7.1	7.1	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.2	7.1	7.1
21	7.1	7.1	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.1	7.1	7.1
22	7.1	7.0	7.0	7.1	7.1	7.1	6.6	6.6	6.6	7.1	7.1	7.1
23	7.0	7.0	7.0	7.2	7.1	7.1	6.6	6.6	6.6	7.1	7.1	7.1
24	7.1	7.0	7.1	7.2	7.1	7.1	6.7	6.6	6.6	7.2	7.1	7.2
25	7.1	7.0	7.1	7.1	7.1	7.1	6.6	6.6	6.6	7.2	7.2	7.2
26	7.1	7.1	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.3	7.2	7.2
27	7.2	7.0	7.1	7.2	7.2	7.2	6.6	6.6	6.6	7.3	7.2	7.2
28	7.2	7.1	7.1	7.2	7.1	7.2	6.6	6.6	6.6	7.2	5.9	6.7
29	---	---	---	7.2	7.1	7.1	6.7	6.6	6.6	7.3	7.1	7.3
30	---	---	---	7.1	7.1	7.1	6.7	6.7	6.7	7.4	7.2	7.3
31	---	---	---	7.1	7.1	7.1	---	---	---	7.4	7.3	7.4
MONTH	7.2	7.0	7.1	7.4	7.1	7.2	7.1	6.5	6.7	7.4	5.9	7.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	7.1	7.3	6.5	6.5	6.5	6.9	6.8	6.9	7.1	7.1	7.1
2	7.3	7.1	7.2	6.6	6.5	6.5	6.9	6.9	6.9	7.1	7.1	7.1
3	7.2	7.1	7.1	6.7	6.5	6.6	6.9	6.9	6.9	7.1	7.1	7.1
4	7.1	7.1	7.1	6.7	6.5	6.6	7.0	6.9	6.9	7.1	7.1	7.1
5	7.1	6.9	7.0	6.7	6.6	6.7	7.0	7.0	7.0	7.1	7.0	7.1
6	7.1	6.8	6.9	6.7	6.6	6.7	7.1	7.0	7.0	7.1	7.0	7.1
7	6.9	6.8	6.9	6.7	6.6	6.7	7.1	7.0	7.1	7.1	7.1	7.1
8	6.9	6.7	6.8	6.7	6.7	6.7	7.1	7.0	7.1	7.1	7.1	7.1
9	6.7	6.6	6.7	6.8	6.6	6.7	7.1	7.1	7.1	7.2	7.1	7.1
10	6.7	6.7	6.7	6.8	6.7	6.7	7.1	7.1	7.1	7.2	7.1	7.2
11	6.7	6.7	6.7	6.9	6.7	6.8	7.1	7.1	7.1	7.2	7.1	7.2
12	6.8	6.7	6.7	6.9	6.8	6.8	7.2	7.1	7.1	7.2	7.2	7.2
13	6.8	6.7	6.8	6.8	6.7	6.8	7.2	7.1	7.1	7.2	7.2	7.2
14	6.8	6.7	6.8	6.9	6.7	6.8	7.2	7.1	7.1	7.2	7.2	7.2
15	6.7	6.6	6.6	7.0	6.8	6.9	7.1	7.0	7.0	7.2	7.2	7.2
16	6.6	6.4	6.5	6.8	6.7	6.8	7.0	7.0	7.0	7.2	7.2	7.2
17	6.4	6.3	6.4	6.8	6.7	6.7	7.1	7.0	7.0	7.2	7.2	7.2
18	6.3	6.1	6.2	6.7	6.6	6.7	7.1	7.0	7.0	7.2	7.2	7.2
19	6.2	6.1	6.1	6.7	6.6	6.7	7.1	7.0	7.0	7.2	7.2	7.2
20	6.1	6.0	6.1	6.9	6.7	6.8	7.1	7.0	7.0	7.2	7.2	7.2
21	6.1	6.0	6.0	6.9	6.8	6.9	7.1	7.0	7.1	7.2	7.2	7.2
22	6.1	6.1	6.1	6.9	6.8	6.9	7.0	6.9	6.9	7.2	7.2	7.2
23	6.2	6.1	6.1	6.9	6.8	6.9	6.9	6.9	6.9	7.2	7.2	7.2
24	6.2	6.1	6.2	6.9	6.9	6.9	7.0	6.9	7.0	7.2	7.2	7.2
25	6.1	6.1	6.1	7.2	6.9	7.0	7.0	7.0	7.0	7.2	7.2	7.2
26	6.3	6.1	6.2	7.1	7.1	7.1	7.1	7.0	7.0	7.2	7.2	7.2
27	6.4	6.3	6.3	7.1	7.1	7.1	7.1	7.0	7.1	7.2	7.2	7.2
28	6.4	6.3	6.4	7.1	7.0	7.0	7.1	7.1	7.1	7.2	7.2	7.2
29	6.6	6.4	6.6	7.0	7.0	7.0	7.1	6.8	7.0	7.2	7.2	7.2
30	6.6	6.5	6.5	7.0	6.8	6.9	7.0	7.0	7.0	7.2	7.2	7.2
31	---	---	---	6.9	6.8	6.8	7.1	7.0	7.0	---	---	---
MONTH	7.4	6.0	6.6	7.2	6.5	6.8	7.2	6.8	7.0	7.2	7.0	7.2

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.5	19.9	20.1	17.1	16.6	16.8	9.8	9.6	9.7	3.5	3.3	3.4
2	20.6	19.8	20.1	16.7	15.9	16.2	9.7	9.3	9.5	3.5	3.3	3.4
3	21.0	20.4	20.7	15.9	15.2	15.4	9.3	8.0	8.6	3.3	2.9	3.1
4	21.2	20.8	21.1	15.8	15.0	15.4	8.0	7.5	7.7	3.0	2.6	2.7
5	21.8	21.2	21.4	15.9	15.6	15.7	7.5	6.9	7.1	2.6	2.2	2.3
6	22.4	21.7	22.0	15.7	15.4	15.6	7.0	6.4	6.8	2.8	2.2	2.5
7	22.4	22.1	22.3	15.8	15.5	15.6	6.4	6.1	6.2	2.9	2.4	2.6
8	22.4	21.4	21.8	16.0	15.8	15.9	6.1	5.8	5.9	3.1	2.9	3.0
9	21.4	20.6	20.9	16.3	15.8	16.0	5.9	5.5	5.7	3.1	3.0	3.0
10	20.7	19.7	20.1	16.5	16.2	16.4	6.5	5.7	6.0	3.3	2.9	3.0
11	19.7	18.8	19.2	16.2	15.8	15.9	7.3	6.5	6.9	3.5	3.2	3.4
12	18.9	18.1	18.3	15.9	15.6	15.7	7.8	7.3	7.6	3.8	3.5	3.7
13	18.1	17.4	17.6	16.0	15.6	15.8	7.7	7.3	7.5	4.5	3.8	4.2
14	18.0	17.1	17.5	16.0	15.6	15.9	7.9	7.6	7.8	4.8	4.5	4.6
15	18.3	17.6	17.9	15.6	14.9	15.2	7.9	7.7	7.8	5.4	4.8	5.1
16	18.5	18.3	18.4	14.9	14.3	14.6	7.8	7.7	7.7	5.8	5.3	5.5
17	18.8	18.3	18.5	14.3	13.6	14.0	8.6	7.8	8.3	6.2	5.7	5.9
18	19.0	18.8	18.9	13.6	12.9	13.2	8.4	7.9	8.1	6.6	6.1	6.3
19	19.1	18.6	18.8	12.9	12.0	12.5	8.0	7.6	7.9	6.9	6.5	6.7
20	19.0	18.6	18.8	12.0	11.6	11.8	7.6	7.4	7.5	7.3	6.9	7.1
21	19.1	18.6	18.9	11.6	11.0	11.3	7.4	7.1	7.2	7.1	6.8	6.9
22	19.4	18.8	19.1	11.0	10.2	10.5	7.1	6.0	6.7	6.8	6.3	6.4
23	19.2	18.7	18.9	10.2	9.9	10.0	6.0	5.3	5.5	6.4	6.0	6.1
24	18.7	18.3	18.5	10.0	9.6	9.7	5.5	5.2	5.4	6.1	5.8	6.0
25	18.5	18.1	18.3	9.8	9.5	9.6	5.5	4.7	5.0	6.0	5.5	5.8
26	18.6	18.2	18.3	10.0	9.7	9.9	4.7	4.2	4.4	5.5	5.1	5.2
27	18.5	18.1	18.4	9.8	9.5	9.6	4.6	4.5	4.5	5.2	4.9	5.0
28	18.5	18.2	18.3	9.5	9.2	9.3	4.5	3.9	4.2	5.1	4.6	4.9
29	18.3	17.7	18.0	9.5	9.1	9.3	3.9	3.4	3.6	5.3	4.9	5.1
30	17.7	17.3	17.4	9.8	9.5	9.6	3.5	3.3	3.4	6.0	5.0	5.4
31	17.3	17.1	17.2	---	---	---	3.5	3.1	3.3	6.2	5.8	6.0
MONTH	22.4	17.1	19.2	17.1	9.1	13.4	9.8	3.1	6.6	7.3	2.2	4.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	6.4	6.1	6.3	10.0	9.2	9.5	11.7	11.5	11.6	18.4	17.1	17.7
2	6.9	6.3	6.5	10.1	9.6	9.9	12.5	11.6	12.0	19.2	18.0	18.5
3	7.0	6.4	6.7	10.0	9.8	9.9	12.5	11.4	12.1	19.3	18.3	18.8
4	6.9	6.4	6.6	9.9	9.6	9.7	11.8	11.4	11.6	19.9	19.2	19.5
5	6.7	6.4	6.5	9.6	9.3	9.5	12.0	11.4	11.8	20.6	19.9	20.3
6	6.6	6.0	6.3	9.3	8.4	8.7	12.9	11.8	12.3	20.9	20.3	20.7
7	6.4	6.0	6.2	8.7	8.2	8.4	14.4	12.9	13.5	20.5	20.0	20.3
8	6.8	6.2	6.4	8.5	8.1	8.3	15.8	14.3	14.9	20.4	20.0	20.2
9	7.6	6.8	7.1	8.5	7.9	8.2	17.2	15.7	16.3	20.3	19.7	20.0
10	8.3	7.6	8.0	8.9	8.1	8.5	18.0	16.9	17.4	20.3	19.5	19.9
11	8.4	8.1	8.3	9.2	8.6	8.9	17.9	17.0	17.5	20.4	19.5	20.0
12	8.4	8.1	8.3	9.5	8.9	9.2	18.2	17.2	17.7	21.7	20.2	21.0
13	8.7	8.3	8.5	10.5	9.5	10.0	18.1	17.6	17.9	22.1	21.1	21.6
14	8.6	8.1	8.3	11.4	10.5	11.0	18.2	17.4	17.8	22.0	21.1	21.5
15	8.7	8.1	8.5	11.7	11.3	11.5	17.8	17.0	17.5	21.7	21.1	21.3
16	8.8	8.4	8.6	11.9	11.5	11.7	17.5	17.0	17.3	21.2	20.8	21.1
17	9.2	8.8	9.0	12.2	11.4	11.8	17.2	14.9	16.2	20.8	19.9	20.3
18	9.2	8.9	9.0	12.1	11.8	12.0	14.9	13.9	14.2	20.3	19.9	20.0
19	9.2	9.0	9.1	11.8	11.3	11.6	14.4	13.1	13.7	20.8	19.9	20.3
20	9.6	8.8	9.2	11.5	10.9	11.1	14.4	13.5	14.0	21.0	20.5	20.8
21	9.6	9.1	9.4	11.3	11.0	11.2	15.6	14.3	14.9	21.5	21.0	21.2
22	9.1	8.2	8.6	12.0	11.2	11.6	16.6	15.4	15.9	22.4	21.5	22.0
23	8.3	7.8	8.1	11.8	11.4	11.7	17.5	16.3	16.8	23.0	22.4	22.7
24	8.6	8.0	8.2	12.2	11.2	11.7	18.2	17.2	17.6	23.5	22.9	23.2
25	8.3	7.8	7.9	12.3	11.7	12.1	18.3	17.2	17.7	23.5	23.2	23.4
26	9.0	8.2	8.6	11.8	11.6	11.7	17.3	16.9	17.2	23.5	22.8	23.2
27	9.4	8.8	9.1	11.6	10.7	11.1	17.3	16.6	17.1	24.0	23.1	23.6
28	9.4	9.2	9.3	11.3	10.7	11.1	17.3	16.9	17.1	23.9	22.8	23.5
29	---	---	---	11.3	10.8	11.1	17.2	16.6	16.9	22.8	22.5	22.7
30	---	---	---	11.9	11.0	11.5	17.5	17.0	17.2	22.8	22.4	22.6
31	---	---	---	12.1	11.4	11.8	---	---	---	22.7	22.2	22.5
MONTH	9.6	6.0	8.0	12.3	7.9	10.5	18.3	11.4	15.5	24.0	17.1	21.1

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.0	22.4	22.7	27.4	26.5	26.9	25.3	24.6	24.9	27.9	27.7	27.8
2	23.7	22.7	23.1	27.4	27.0	27.2	25.3	24.8	25.0	28.0	27.5	27.8
3	23.8	23.0	23.4	27.5	26.9	27.2	25.6	24.8	25.1	28.0	27.7	27.8
4	23.4	22.9	23.1	27.3	26.7	27.0	26.3	25.4	25.7	27.8	27.1	27.5
5	23.7	22.8	23.2	27.2	26.5	26.8	27.1	26.0	26.5	27.4	26.9	27.1
6	23.9	23.5	23.7	27.3	26.8	27.0	27.7	26.7	27.1	27.4	26.8	27.0
7	24.1	23.6	23.9	27.6	26.7	27.1	28.1	27.1	27.6	27.2	26.7	26.9
8	24.1	23.3	23.7	27.3	27.0	27.2	28.6	27.7	28.1	27.0	26.7	26.9
9	23.9	22.9	23.4	27.4	26.9	27.1	28.8	28.0	28.4	27.1	26.7	26.9
10	24.6	23.8	24.1	27.9	27.3	27.5	29.2	28.3	28.7	27.3	26.8	27.0
11	24.6	24.0	24.2	28.1	27.3	27.7	28.9	28.5	28.6	27.3	27.0	27.2
12	24.6	23.7	24.1	28.1	27.7	27.9	29.5	28.6	29.0	27.1	26.5	26.8
13	24.7	24.3	24.5	27.7	26.7	27.2	29.6	29.2	29.4	26.9	26.3	26.5
14	24.7	24.0	24.3	26.8	26.4	26.6	29.3	28.6	28.9	26.6	25.9	26.2
15	24.0	23.8	23.9	26.7	25.9	26.2	29.0	28.5	28.7	25.9	25.1	25.3
16	24.0	23.4	23.7	26.4	25.6	26.0	28.9	28.4	28.6	25.1	24.3	24.6
17	23.6	23.1	23.3	26.5	25.9	26.2	28.8	28.3	28.6	24.5	23.9	24.2
18	23.6	23.0	23.3	26.6	26.2	26.4	28.6	28.4	28.6	24.3	23.7	24.0
19	23.6	23.0	23.3	26.7	26.4	26.5	28.7	28.2	28.4	23.8	23.4	23.6
20	23.9	23.2	23.5	26.9	26.6	26.7	28.6	28.4	28.5	23.8	23.5	23.6
21	24.4	23.5	23.9	27.2	26.9	27.0	28.4	27.9	28.0	23.8	23.3	23.6
22	24.8	23.9	24.3	27.1	26.7	26.9	28.0	27.3	27.5	24.4	23.8	24.0
23	25.1	24.5	24.8	27.0	26.7	26.8	28.0	27.3	27.7	24.7	24.2	24.4
24	25.1	24.8	25.0	26.9	26.6	26.8	28.0	27.4	27.6	24.8	24.5	24.6
25	25.1	24.3	24.7	27.6	26.7	27.1	27.7	27.2	27.4	24.6	24.3	24.4
26	25.1	24.5	24.8	27.6	27.3	27.4	27.6	27.1	27.4	24.4	23.8	24.1
27	25.6	25.0	25.3	27.3	26.3	26.6	27.8	27.2	27.5	24.1	23.2	23.5
28	26.8	25.5	26.2	26.4	25.5	25.7	27.6	27.3	27.5	23.3	22.5	22.8
29	27.1	26.2	26.6	25.6	25.5	25.6	27.5	27.3	27.4	22.5	21.9	22.1
30	26.8	26.5	26.7	25.5	25.2	25.3	27.9	27.2	27.5	21.9	21.3	21.5
31	---	---	---	25.2	24.8	25.1	27.9	27.5	27.7	---	---	---
MONTH	27.1	22.4	24.2	28.1	24.8	26.7	29.6	24.6	27.7	28.0	21.3	25.3

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.2	6.0	6.1	7.8	7.7	7.8	9.1	8.7	8.9	10.4	10.1	10.2
2	6.3	6.0	6.2	8.1	7.8	7.9	8.9	8.7	8.8	10.6	10.3	10.5
3	6.3	6.0	6.2	8.3	8.1	8.2	9.2	8.7	8.9	10.8	10.5	10.7
4	6.4	6.0	6.1	8.4	8.1	8.3	9.4	9.1	9.3	11.5	10.7	10.9
5	6.3	5.9	6.1	8.3	8.1	8.2	9.5	9.2	9.3	11.2	10.9	11.1
6	6.1	5.7	5.9	8.3	8.1	8.2	9.5	9.1	9.4	11.3	11.0	11.1
7	6.0	5.8	5.9	8.3	8.0	8.1	9.6	9.3	9.5	11.3	11.0	11.2
8	6.2	5.9	6.0	8.3	8.0	8.1	10.0	9.6	9.8	11.3	11.1	11.2
9	6.5	6.1	6.3	8.2	7.9	8.1	10.0	9.8	9.9	11.3	11.1	11.2
10	6.8	6.4	6.6	8.2	7.9	8.0	9.9	9.7	9.8	11.3	11.1	11.2
11	7.0	6.7	6.9	8.2	8.0	8.1	9.7	9.6	9.6	11.3	11.0	11.1
12	7.4	7.0	7.2	8.2	8.1	8.2	9.7	9.4	9.5	11.4	11.0	11.1
13	7.8	7.4	7.7	8.1	7.8	8.0	9.6	9.4	9.5	11.4	10.9	11.1
14	7.9	7.8	7.8	7.9	7.7	7.8	9.5	9.2	9.3	11.0	10.7	10.8
15	7.8	7.5	7.7	8.0	7.8	7.9	9.6	9.2	9.4	10.9	10.7	10.8
16	7.6	7.2	7.5	8.0	7.6	7.8	9.4	8.8	9.3	10.9	10.6	10.8
17	7.5	7.2	7.4	8.0	7.7	7.9	9.2	8.7	8.9	10.8	10.5	10.7
18	7.6	7.1	7.3	8.2	7.9	8.0	9.2	8.8	9.0	10.8	10.4	10.6
19	7.4	7.2	7.3	8.5	8.1	8.3	9.0	8.7	8.8	10.8	10.4	10.6
20	7.3	6.7	7.2	8.6	8.4	8.5	9.2	8.7	9.0	10.8	10.5	10.6
21	7.4	7.2	7.3	8.9	8.6	8.7	8.9	8.7	8.8	10.6	10.3	10.4
22	7.4	7.0	7.3	9.1	8.8	8.9	9.4	8.8	9.0	10.9	10.3	10.6
23	7.4	7.0	7.3	9.2	9.0	9.1	9.8	9.3	9.6	11.2	10.6	10.9
24	7.4	7.1	7.3	9.1	9.0	9.1	9.9	9.5	9.8	11.3	10.8	11.1
25	7.6	7.4	7.5	9.1	8.9	9.0	10.1	9.7	9.9	11.2	10.9	11.1
26	7.7	7.5	7.6	9.1	8.9	9.0	10.1	9.8	10.0	11.3	11.0	11.1
27	7.6	7.4	7.6	9.2	9.0	9.1	10.0	9.8	9.9	11.6	11.0	11.3
28	7.6	7.1	7.4	9.4	9.1	9.3	10.6	9.5	9.8	11.9	11.4	11.6
29	7.7	7.5	7.6	9.4	9.1	9.2	10.1	9.8	10.0	11.9	11.5	11.7
30	7.8	7.4	7.7	9.2	8.9	9.0	10.1	10.0	10.0	11.9	11.6	11.8
31	7.8	7.4	7.6	---	---	---	10.3	10.0	10.2	12.0	11.7	11.8
MONTH	7.9	5.7	7.0	9.4	7.6	8.4	10.6	8.7	9.4	12.0	10.1	11.0

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

OXYGEN DISSOLVED (MG/L), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.9	11.6	11.8	10.0	9.8	9.9	9.2	8.3	8.8	7.4	7.0	7.2
2	11.8	11.5	11.7	9.9	8.9	9.2	8.8	8.1	8.5	7.2	6.8	7.1
3	11.6	11.3	11.4	9.3	8.9	9.1	8.9	8.2	8.4	7.3	6.9	7.1
4	11.5	11.2	11.3	9.3	8.9	9.0	8.5	8.2	8.4	7.2	6.7	6.9
5	11.5	11.2	11.3	9.2	8.8	9.0	8.7	8.3	8.5	6.9	6.4	6.7
6	11.7	11.1	11.4	9.3	8.8	9.1	8.6	8.3	8.4	6.8	6.4	6.6
7	11.7	11.4	11.6	9.7	9.1	9.4	8.4	7.4	8.0	6.8	6.4	6.6
8	11.5	11.3	11.4	9.8	9.3	9.5	7.9	7.3	7.5	6.8	6.3	6.5
9	11.7	11.4	11.6	9.7	9.4	9.6	7.3	6.8	7.0	6.9	5.8	6.6
10	11.6	10.9	11.1	10.2	9.5	9.9	6.8	6.3	6.5	7.1	6.5	6.8
11	11.1	10.6	10.9	10.5	9.9	10.2	6.4	5.9	6.2	7.0	6.4	6.7
12	11.0	10.6	10.7	10.3	9.8	10.0	6.4	5.9	6.1	6.8	6.2	6.6
13	10.7	10.3	10.4	9.9	9.4	9.7	6.2	5.7	5.9	6.8	6.1	6.4
14	10.8	10.3	10.5	9.8	9.3	9.5	6.1	5.4	5.8	6.5	6.0	6.2
15	10.8	10.2	10.4	9.4	8.8	9.1	6.1	5.6	5.8	6.5	5.7	6.1
16	10.7	10.2	10.5	9.2	8.6	8.8	5.8	5.2	5.5	6.3	4.9	5.9
17	10.6	10.3	10.5	9.5	9.1	9.3	5.5	5.2	5.4	6.4	5.7	6.0
18	10.6	10.1	10.4	9.3	8.8	9.0	5.5	5.0	5.2	6.4	5.1	5.8
19	10.4	10.0	10.2	9.2	8.8	9.0	5.8	5.3	5.5	6.4	5.9	6.1
20	10.3	9.6	10.0	9.3	8.8	9.1	5.9	5.5	5.7	6.6	5.5	6.2
21	9.9	9.6	9.8	9.5	8.9	9.2	5.9	5.6	5.7	6.4	5.5	6.0
22	10.0	9.6	9.8	9.2	8.5	8.9	6.1	5.5	5.8	6.2	5.6	5.9
23	10.3	9.8	10.0	9.0	8.4	8.7	6.1	5.8	5.9	6.1	5.6	5.9
24	10.3	9.9	10.1	9.0	8.3	8.7	6.0	5.7	5.9	6.1	5.5	5.8
25	10.2	9.7	10.0	8.8	8.1	8.4	6.2	5.7	5.9	6.1	5.3	5.6
26	10.3	10.0	10.2	8.9	8.5	8.7	6.2	5.7	5.9	6.2	5.5	5.9
27	10.3	9.9	10.1	9.3	8.5	9.0	6.5	6.0	6.2	6.1	5.6	5.8
28	10.1	9.6	9.9	9.4	8.8	9.1	6.7	6.3	6.5	6.1	5.7	5.9
29	---	---	---	9.5	9.0	9.3	6.8	6.6	6.7	6.3	5.8	6.0
30	---	---	---	9.4	8.9	9.2	7.1	6.6	6.8	6.3	5.8	6.1
31	---	---	---	9.3	8.8	9.1	---	---	---	6.2	5.8	6.0
MONTH	11.9	9.6	10.7	10.5	8.1	9.2	9.2	5.0	6.6	7.4	4.9	6.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.1	5.9	6.0	4.6	4.3	4.4	5.6	5.2	5.4	5.4	5.1	5.2
2	6.2	5.9	6.1	4.7	4.3	4.5	5.6	5.4	5.5	5.4	5.1	5.3
3	6.2	5.9	6.1	4.7	4.5	4.6	5.9	5.5	5.7	5.4	5.0	5.2
4	6.3	5.9	6.1	4.7	4.3	4.5	6.1	5.8	5.9	5.3	4.8	5.1
5	5.9	5.6	5.7	4.8	4.5	4.6	6.3	6.0	6.1	5.2	4.2	4.8
6	6.3	5.7	5.9	5.1	4.6	4.8	6.4	6.0	6.2	5.2	4.3	4.9
7	6.0	5.7	5.9	5.2	5.0	5.1	6.7	6.0	6.2	5.2	4.2	4.8
8	5.8	5.1	5.5	5.2	5.0	5.1	6.8	5.8	6.3	5.3	4.8	5.0
9	5.1	4.8	4.9	5.1	4.8	5.0	6.4	5.9	6.1	5.3	4.7	5.0
10	5.1	4.9	5.0	5.1	4.7	4.9	6.2	5.5	6.1	5.3	4.8	5.1
11	5.2	4.9	5.0	5.5	4.9	5.2	6.4	5.9	6.1	5.2	4.7	5.0
12	5.2	4.9	5.1	5.5	5.1	5.3	6.5	6.0	6.2	5.2	4.7	4.9
13	5.3	5.0	5.1	5.5	5.2	5.4	---	---	---	5.4	4.8	5.1
14	5.3	5.0	5.1	5.8	5.4	5.6	---	---	---	5.6	4.8	5.1
15	5.1	4.8	4.9	5.8	5.6	5.7	---	---	---	5.8	5.0	5.4
16	5.1	4.6	4.8	5.7	5.3	5.6	5.3	4.9	5.1	6.0	5.2	5.6
17	4.7	3.9	4.3	5.4	5.2	5.3	5.4	4.9	5.1	5.9	4.5	5.4
18	3.9	3.3	3.6	5.6	5.2	5.3	5.3	5.0	5.1	5.3	4.5	5.0
19	3.4	3.2	3.3	5.5	5.1	5.4	5.3	5.0	5.2	5.4	4.7	5.0
20	3.4	3.2	3.3	5.8	5.4	5.6	5.3	4.8	5.1	5.4	4.8	5.1
21	3.3	3.1	3.2	5.9	5.3	5.6	5.4	4.9	5.2	---	---	---
22	3.3	3.1	3.2	5.9	5.3	5.6	5.3	4.7	4.9	---	---	---
23	3.3	3.1	3.2	5.9	5.4	5.7	4.9	4.6	4.8	---	---	---
24	3.5	3.2	3.4	6.1	5.8	5.9	5.0	4.7	4.8	---	---	---
25	3.6	3.4	3.5	6.2	5.8	6.0	5.4	4.9	5.1	---	---	---
26	4.0	3.4	3.7	6.1	5.7	5.8	5.5	5.2	5.3	---	---	---
27	4.1	3.9	4.0	6.0	5.6	5.8	5.7	5.1	5.3	---	---	---
28	4.6	4.1	4.4	5.8	5.6	5.7	5.6	5.1	5.4	---	---	---
29	4.8	4.5	4.6	5.8	5.6	5.7	5.4	5.1	5.3	---	---	---
30	4.6	4.4	4.4	5.7	5.2	5.5	5.3	4.9	5.2	---	---	---
31	---	---	---	5.5	5.0	5.2	5.5	5.1	5.3	---	---	---
MONTH	6.3	3.1	4.6	6.2	4.3	5.3	---	---	---	---	---	---

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	69	57	67	81	79	80	80	77	78	79	76	77
2	71	67	68	82	80	81	78	76	77	80	78	79
3	71	67	69	83	81	82	78	75	76	80	79	80
4	72	68	69	84	82	83	79	77	78	85	79	81
5	72	67	69	84	82	83	78	76	77	82	79	81
6	69	66	68	83	81	82	78	75	77	83	81	82
7	69	67	68	84	80	82	78	76	77	84	81	82
8	70	68	69	84	81	82	80	77	79	85	83	84
9	73	69	71	83	81	82	80	78	79	84	82	83
10	74	71	72	83	81	82	80	78	79	84	83	83
11	76	74	75	83	81	83	81	78	79	84	83	84
12	79	75	76	83	82	82	81	79	80	87	83	84
13	82	78	81	82	79	81	80	78	79	87	84	86
14	83	81	82	80	78	79	79	77	78	85	83	84
15	83	80	81	80	78	79	80	78	79	86	84	85
16	81	77	80	79	74	77	79	74	78	87	84	86
17	81	77	79	77	75	76	78	74	76	87	85	86
18	82	76	79	78	76	77	78	75	76	88	85	86
19	80	77	79	79	77	78	75	73	74	89	85	87
20	79	72	78	80	78	79	76	73	75	90	87	88
21	79	77	78	81	79	80	74	72	73	88	85	86
22	80	76	79	82	79	80	75	73	74	89	84	86
23	80	76	79	81	80	81	78	75	77	90	86	88
24	80	76	78	81	80	80	78	75	77	91	86	89
25	81	79	80	80	79	79	79	76	78	90	87	89
26	82	80	81	81	78	80	78	76	77	90	87	88
27	82	79	81	81	80	80	78	76	77	91	87	89
28	81	76	79	82	80	81	81	73	75	94	89	91
29	81	79	80	82	80	81	77	74	75	94	91	92
30	81	77	80	81	78	79	76	75	76	96	91	93
31	81	77	79	---	---	---	77	75	76	97	94	95
MONTH	83	57	76	84	74	80	81	72	77	97	76	86

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	97	94	95	88	85	87	85	76	81	78	73	76
2	97	95	96	87	79	81	82	75	79	79	72	76
3	95	92	94	82	79	80	83	77	78	79	74	76
4	94	91	92	82	78	80	78	76	77	79	74	76
5	93	91	92	81	77	79	81	77	78	76	71	74
6	95	90	92	80	77	78	80	77	79	76	72	73
7	95	92	94	83	78	80	80	70	77	75	71	73
8	95	92	93	83	79	81	78	71	74	75	70	72
9	98	94	96	83	79	81	74	69	71	76	64	73
10	97	92	94	88	81	84	71	65	68	77	72	75
11	94	90	93	91	85	88	67	62	65	76	71	74
12	94	90	91	90	85	87	68	62	65	76	71	74
13	92	88	89	88	84	86	66	60	62	78	69	73
14	91	88	90	88	85	87	65	57	61	75	68	71
15	92	88	89	86	81	84	64	58	61	74	65	68
16	92	87	90	85	79	81	60	54	57	71	56	67
17	92	89	91	88	84	86	58	52	55	71	63	67
18	92	88	90	86	81	84	54	48	51	71	56	64
19	91	87	89	85	81	83	57	51	54	72	65	68
20	90	85	87	85	80	83	58	53	56	74	62	69
21	86	84	85	87	81	84	59	55	57	72	63	68
22	86	82	84	85	79	82	62	56	58	71	64	68
23	88	83	85	83	78	80	63	59	61	71	65	69
24	88	84	86	84	78	81	64	60	62	71	65	68
25	87	82	84	81	75	78	65	60	63	72	63	66
26	90	86	88	82	79	81	65	59	61	73	64	69
27	89	86	88	85	78	82	68	62	64	72	66	69
28	88	84	86	86	80	83	69	66	67	73	67	70
29	---	---	---	87	81	84	70	68	69	73	68	70
30	---	---	---	87	82	85	73	68	71	73	67	70
31	---	---	---	86	81	84	---	---	---	72	68	70
MONTH	98	82	90	91	75	83	85	48	66	79	56	71

02081094 ROANOKE RIVER AT JAMESVILLE, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	71	69	70	59	54	56	68	62	65	69	64	67
2	74	70	71	59	55	57	69	65	67	70	65	67
3	74	70	72	60	57	58	72	67	69	69	64	67
4	73	69	71	59	54	57	76	70	73	67	60	65
5	70	65	67	60	56	58	80	74	76	65	53	61
6	75	68	70	65	57	61	81	76	78	66	54	61
7	72	68	70	67	63	65	85	75	79	65	53	60
8	69	60	66	66	63	64	87	75	81	67	60	63
9	60	56	58	64	61	63	83	75	78	66	58	63
10	62	58	60	65	60	62	82	73	79	67	61	64
11	61	59	60	71	62	66	83	76	78	66	59	63
12	63	58	61	70	65	68	85	78	81	65	59	62
13	64	60	62	70	66	68	---	---	---	67	60	64
14	63	60	61	73	67	70	---	---	---	70	59	64
15	61	57	59	72	69	71	---	---	---	71	61	66
16	60	55	57	71	66	69	69	64	66	72	63	67
17	55	46	51	68	64	66	70	63	66	71	54	64
18	46	39	43	69	64	66	68	65	67	63	54	59
19	40	38	39	69	64	67	69	64	67	64	55	59
20	40	37	39	73	68	70	69	62	65	64	56	60
21	39	37	38	75	67	70	69	63	67	---	---	---
22	40	36	38	74	67	71	68	60	63	---	---	---
23	40	37	38	74	68	71	63	59	61	---	---	---
24	43	39	41	76	72	74	63	59	61	---	---	---
25	43	41	42	79	73	76	69	62	65	---	---	---
26	48	41	44	77	72	74	70	66	68	---	---	---
27	50	48	49	75	69	72	72	64	68	---	---	---
28	58	50	54	73	69	70	76	64	69	---	---	---
29	59	56	58	72	69	70	74	64	67	---	---	---
30	58	54	56	70	63	68	68	63	66	---	---	---
31	---	---	---	66	61	64	70	65	67	---	---	---
MONTH	75	36	56	79	54	67	---	---	---	---	---	---

Water Quality monitor at Pamlico River at Highway 17, Washington, North Carolina.

355205076522501 COW CREEK TRANSECT (SITE #2)

LOCATION.--Lat 35°52'04", long 76°52'24", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, on Charleston Creek approximately 1.2 mi upstream of confluence with Broad Creek and 6.7 mi west of Plymouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

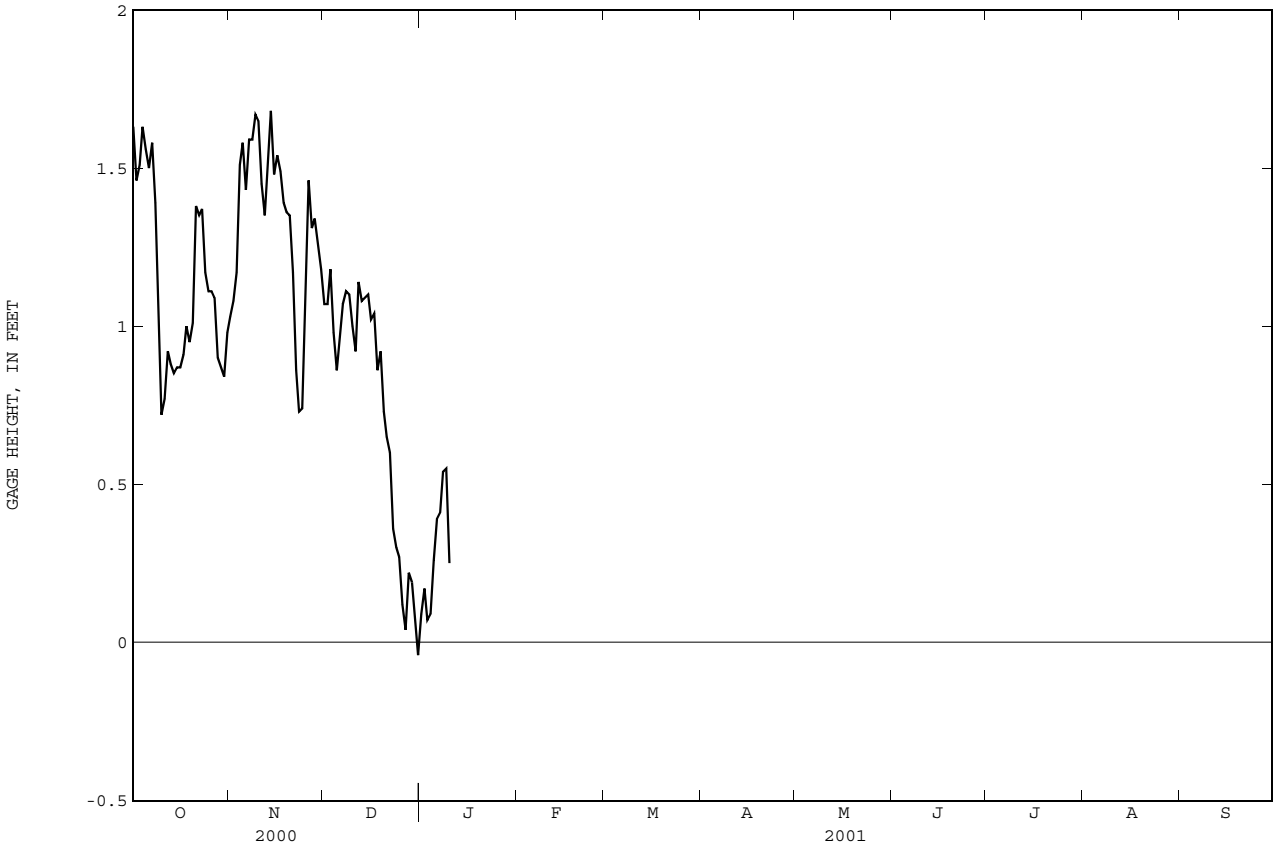
EXTREMES FOR PERIOD OF RECORD.--Maximum, 5.76 ft, Sept. 19, 1999; minimum, -0.08 ft, Dec. 31, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum, 1.94 ft, Oct. 7; minimum elevation, -0.08 ft, Dec. 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.63	1.03	1.07	.09	---	---	---	---	---	---	---	---
2	1.46	1.08	1.07	.17	---	---	---	---	---	---	---	---
3	1.51	1.17	1.18	.07	---	---	---	---	---	---	---	---
4	1.63	1.51	.98	.09	---	---	---	---	---	---	---	---
5	1.56	1.58	.86	.26	---	---	---	---	---	---	---	---
6	1.50	1.43	.98	.39	---	---	---	---	---	---	---	---
7	1.58	1.59	1.07	.41	---	---	---	---	---	---	---	---
8	1.39	1.59	1.11	.54	---	---	---	---	---	---	---	---
9	1.09	1.67	1.10	.55	---	---	---	---	---	---	---	---
10	.72	1.65	1.00	.25	---	---	---	---	---	---	---	---
11	.77	1.45	.92	---	---	---	---	---	---	---	---	---
12	.92	1.35	1.14	---	---	---	---	---	---	---	---	---
13	.88	1.51	1.08	---	---	---	---	---	---	---	---	---
14	.85	1.68	1.09	---	---	---	---	---	---	---	---	---
15	.87	1.48	1.10	---	---	---	---	---	---	---	---	---
16	.87	1.54	1.02	---	---	---	---	---	---	---	---	---
17	.91	1.49	1.04	---	---	---	---	---	---	---	---	---
18	1.00	1.39	.86	---	---	---	---	---	---	---	---	---
19	.95	1.36	.92	---	---	---	---	---	---	---	---	---
20	1.01	1.35	.73	---	---	---	---	---	---	---	---	---
21	1.38	1.17	.65	---	---	---	---	---	---	---	---	---
22	1.35	.86	.60	---	---	---	---	---	---	---	---	---
23	1.37	.73	.36	---	---	---	---	---	---	---	---	---
24	1.17	.74	.30	---	---	---	---	---	---	---	---	---
25	1.11	1.05	.27	---	---	---	---	---	---	---	---	---
26	1.11	1.46	.12	---	---	---	---	---	---	---	---	---
27	1.09	1.31	.04	---	---	---	---	---	---	---	---	---
28	.90	1.34	.22	---	---	---	---	---	---	---	---	---
29	.87	1.26	.19	---	---	---	---	---	---	---	---	---
30	.84	1.18	.09	---	---	---	---	---	---	---	---	---
31	.98	---	-.04	---	---	---	---	---	---	---	---	---
MEAN	1.14	1.33	.75	---	---	---	---	---	---	---	---	---
MAX	1.63	1.68	1.18	---	---	---	---	---	---	---	---	---
MIN	.72	.73	-.04	---	---	---	---	---	---	---	---	---

355205076522501 COW CREEK TRANSECT (SITE #2)--Continued



355149076504001 COW CREEK TRANSECT (SITE #3)

LOCATION.--Lat 35°51'50", long 76°50'39", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, on Cow Creek approximately 0.5 mi upstream of confluence with Broad Creek and 5.2 mi west of Plymouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

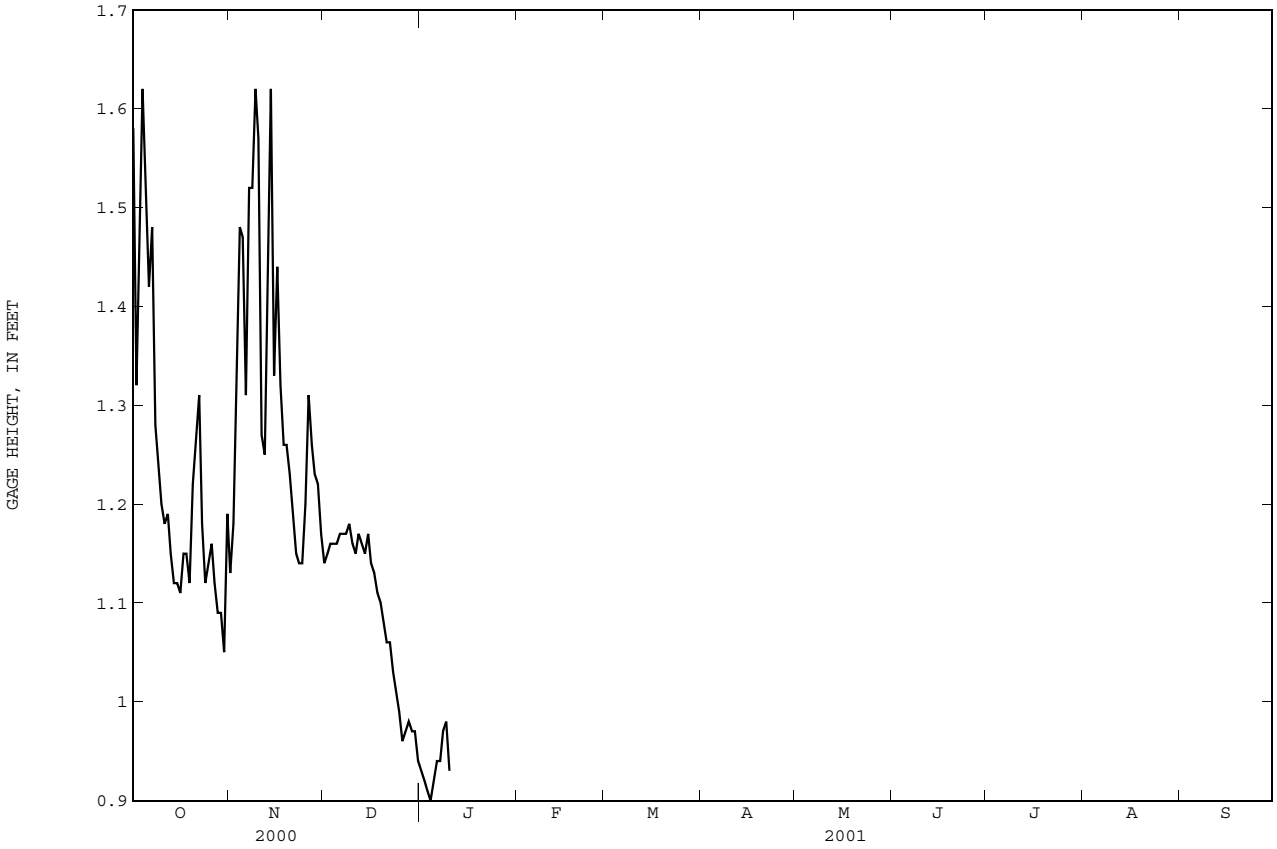
EXTREMES FOR PERIOD OF RECORD.--Maximum, 5.40 ft, Sept. 18, 19, 1999; minimum, 0.90 ft, Aug. 7, 1998 and Jan. 3, 4, 5, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum, 1.94 ft, Oct. 7; minimum elevation, 0.90 ft, Jan. 3, 4, 5.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.58	1.13	1.14	.93	---	---	---	---	---	---	---	---
2	1.32	1.18	1.15	.92	---	---	---	---	---	---	---	---
3	1.49	1.29	1.16	.91	---	---	---	---	---	---	---	---
4	1.62	1.48	1.16	.90	---	---	---	---	---	---	---	---
5	1.50	1.47	1.16	.92	---	---	---	---	---	---	---	---
6	1.42	1.31	1.17	.94	---	---	---	---	---	---	---	---
7	1.48	1.52	1.17	.94	---	---	---	---	---	---	---	---
8	1.28	1.52	1.17	.97	---	---	---	---	---	---	---	---
9	1.24	1.62	1.18	.98	---	---	---	---	---	---	---	---
10	1.20	1.57	1.16	.93	---	---	---	---	---	---	---	---
11	1.18	1.27	1.15	---	---	---	---	---	---	---	---	---
12	1.19	1.25	1.17	---	---	---	---	---	---	---	---	---
13	1.15	1.50	1.16	---	---	---	---	---	---	---	---	---
14	1.12	1.62	1.15	---	---	---	---	---	---	---	---	---
15	1.12	1.33	1.17	---	---	---	---	---	---	---	---	---
16	1.11	1.44	1.14	---	---	---	---	---	---	---	---	---
17	1.15	1.32	1.13	---	---	---	---	---	---	---	---	---
18	1.15	1.26	1.11	---	---	---	---	---	---	---	---	---
19	1.12	1.26	1.10	---	---	---	---	---	---	---	---	---
20	1.22	1.23	1.08	---	---	---	---	---	---	---	---	---
21	1.26	1.19	1.06	---	---	---	---	---	---	---	---	---
22	1.31	1.15	1.06	---	---	---	---	---	---	---	---	---
23	1.18	1.14	1.03	---	---	---	---	---	---	---	---	---
24	1.12	1.14	1.01	---	---	---	---	---	---	---	---	---
25	1.14	1.20	.99	---	---	---	---	---	---	---	---	---
26	1.16	1.31	.96	---	---	---	---	---	---	---	---	---
27	1.12	1.26	.97	---	---	---	---	---	---	---	---	---
28	1.09	1.23	.98	---	---	---	---	---	---	---	---	---
29	1.09	1.22	.97	---	---	---	---	---	---	---	---	---
30	1.05	1.17	.97	---	---	---	---	---	---	---	---	---
31	1.19	---	.94	---	---	---	---	---	---	---	---	---
MEAN	1.24	1.32	1.09	---	---	---	---	---	---	---	---	---
MAX	1.62	1.62	1.18	---	---	---	---	---	---	---	---	---
MIN	1.05	1.13	.94	---	---	---	---	---	---	---	---	---

355149076504001 COW CREEK TRANSECT (SITE #3)--Continued



355140076484201 COW CREEK TRANSECT (SITE #4)

LOCATION.--Lat 35°51'41", long 76°48'40", North American Datum of 1983, Martin County, Hydrologic Unit 03010107, on Highland Prong approximately 1.4 mi upstream of confluence with Roanoke River and 3.35 mi west of Plymouth.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 1996 to December 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

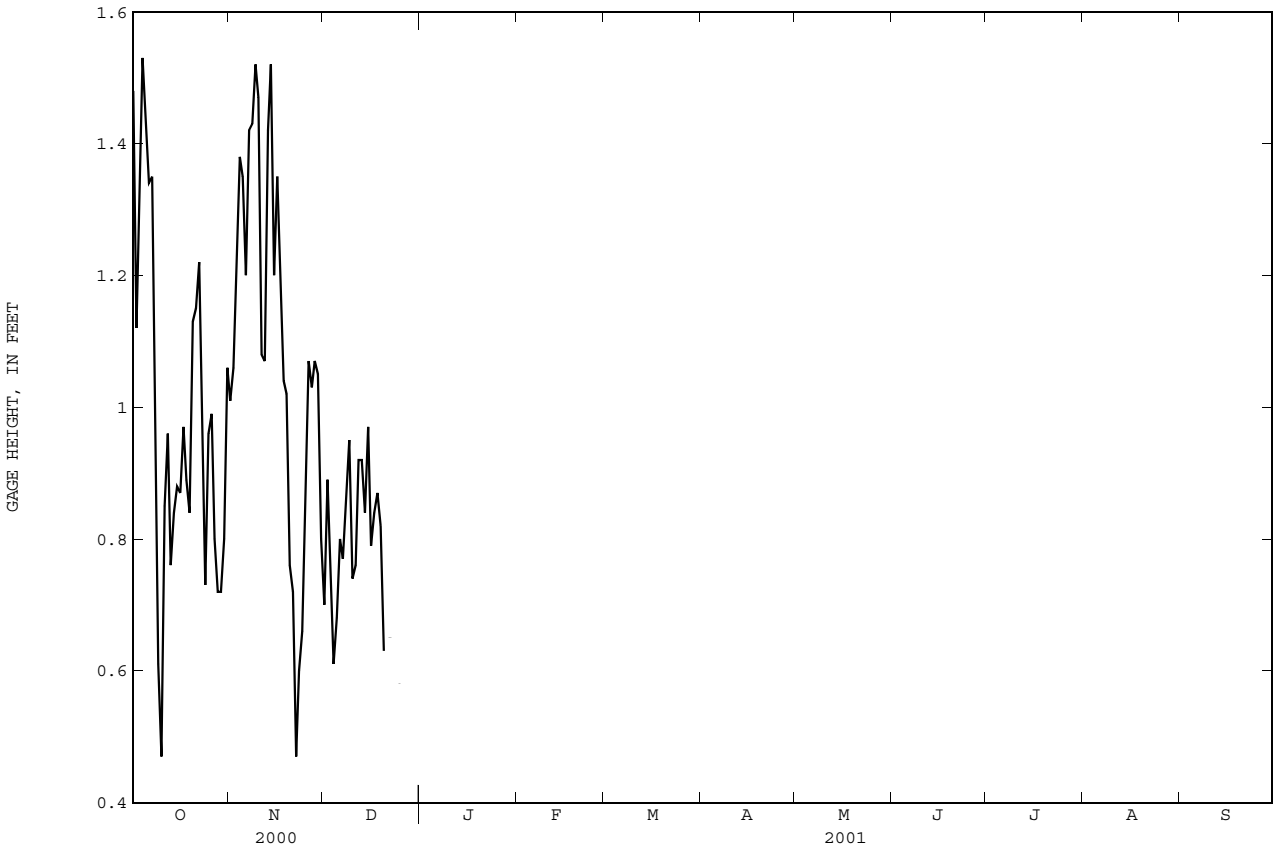
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded gage height, 4.67 ft, Sept. 16, 1999; minimum recorded gage height, 0.41 ft, Oct. 23, 24, 1998.

EXTREMES FOR CURRENT YEAR.--Maximum recorded gage height, 1.88 ft, Oct. 7; minimum recorded gage height, 0.45 ft, Oct. 10.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.48	1.01	.70	---	---	---	---	---	---	---	---	---
2	1.12	1.06	.89	---	---	---	---	---	---	---	---	---
3	1.40	1.19	.73	---	---	---	---	---	---	---	---	---
4	1.53	1.38	.61	---	---	---	---	---	---	---	---	---
5	1.42	1.35	.68	---	---	---	---	---	---	---	---	---
6	1.34	1.20	.80	---	---	---	---	---	---	---	---	---
7	1.35	1.42	.77	---	---	---	---	---	---	---	---	---
8	1.06	1.43	.86	---	---	---	---	---	---	---	---	---
9	.61	1.52	.95	---	---	---	---	---	---	---	---	---
10	.47	1.47	.74	---	---	---	---	---	---	---	---	---
11	.85	1.08	.76	---	---	---	---	---	---	---	---	---
12	.96	1.07	.92	---	---	---	---	---	---	---	---	---
13	.76	1.42	.92	---	---	---	---	---	---	---	---	---
14	.84	1.52	.84	---	---	---	---	---	---	---	---	---
15	.88	1.20	.97	---	---	---	---	---	---	---	---	---
16	.87	1.35	.79	---	---	---	---	---	---	---	---	---
17	.97	1.19	.84	---	---	---	---	---	---	---	---	---
18	.89	1.04	.87	---	---	---	---	---	---	---	---	---
19	.84	1.02	.82	---	---	---	---	---	---	---	---	---
20	1.13	.76	.63	---	---	---	---	---	---	---	---	---
21	1.15	.72	---	---	---	---	---	---	---	---	---	---
22	1.22	.47	.65	---	---	---	---	---	---	---	---	---
23	.96	.60	---	---	---	---	---	---	---	---	---	---
24	.73	.66	---	---	---	---	---	---	---	---	---	---
25	.96	.84	.58	---	---	---	---	---	---	---	---	---
26	.99	1.07	---	---	---	---	---	---	---	---	---	---
27	.80	1.03	---	---	---	---	---	---	---	---	---	---
28	.72	1.07	---	---	---	---	---	---	---	---	---	---
29	.72	1.05	---	---	---	---	---	---	---	---	---	---
30	.80	.80	---	---	---	---	---	---	---	---	---	---
31	1.06	---	---	---	---	---	---	---	---	---	---	---
MEAN	1.00	1.10	---	---	---	---	---	---	---	---	---	---
MAX	1.53	1.52	---	---	---	---	---	---	---	---	---	---
MIN	.47	.47	---	---	---	---	---	---	---	---	---	---

355140076484201 COW CREEK TRANSECT (SITE #4)--Continued



0208111310 CASHIE RIVER AT SECONDARY ROAD 1257 NEAR WINDSOR, NC

LOCATION.--Lat 36°02'51", long 76°59'07", 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 sea level, 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 periodically.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	2.1	38	e21	19	72	324	25	3.0	13	173	4.8
2	124	1.9	32	e21	18	63	485	20	46	9.0	92	5.3
3	84	1.7	30	e18	17	57	677	16	94	5.7	43	4.4
4	61	1.5	33	e17	15	66	590	12	51	4.0	21	3.7
5	45	2.4	36	e18	23	102	421	9.6	21	12	9.7	3.3
6	32	1.8	35	19	34	127	297	7.0	74	6.4	5.3	2.8
7	17	1.9	35	e19	40	131	213	5.5	154	4.1	3.9	2.3
8	11	2.1	37	22	38	118	158	4.3	161	2.9	2.5	1.7
9	7.0	2.2	40	26	40	98	123	3.4	139	2.6	1.7	1.5
10	5.0	2.6	40	27	40	79	97	2.7	110	2.0	1.2	1.3
11	4.9	2.2	41	25	35	67	76	1.0	77	1.2	5.0	29
12	4.6	2.0	42	25	32	59	64	.90	46	.80	6.7	8.1
13	4.2	2.1	40	24	31	52	53	1.2	25	.63	10	4.0
14	3.6	2.5	40	24	31	46	43	.56	16	.53	49	2.5
15	3.0	2.6	44	33	31	44	34	.39	42	.43	96	1.7
16	2.6	2.5	48	40	32	59	28	.42	1360	.31	66	1.3
17	2.2	2.6	51	37	44	73	22	.39	4000	.24	26	.94
18	1.8	2.4	53	30	71	74	22	.32	3280	.85	17	.79
19	1.6	3.1	52	27	81	72	19	.30	1700	1.5	60	.70
20	1.8	5.0	49	31	80	65	17	.25	898	.56	93	1.0
21	1.8	5.5	53	40	80	114	16	.31	517	.28	203	.97
22	1.9	5.8	54	41	81	278	15	.31	308	.30	162	.71
23	2.0	6.3	48	37	106	370	13	.49	245	.35	64	.57
24	2.1	6.4	e42	33	129	333	11	.24	460	.41	54	1.3
25	2.3	11	37	31	119	235	11	.18	384	.44	51	2.6
26	2.5	29	e34	28	113	166	13	1.3	180	.32	38	1.2
27	3.0	38	e31	25	101	124	11	3.3	94	173	23	.69
28	2.9	42	29	23	85	96	13	1.6	56	517	13	.51
29	3.1	46	27	21	---	87	20	1.9	35	358	8.8	.44
30	3.0	47	26	21	---	137	25	1.9	22	278	6.9	.37
31	2.5	---	e23	21	---	258	---	1.5	---	247	5.2	---
TOTAL	626.4	284.2	1220	825	1566	3722	3911	124.26	14598.0	1643.85	1410.9	90.49
MEAN	20.2	9.47	39.4	26.6	55.9	120	130	4.01	487	53.0	45.5	3.02
MAX	183	47	54	41	129	370	677	25	4000	517	203	29
MIN	1.6	1.5	23	17	15	44	11	.18	3.0	.24	1.2	.37
CFSM	.19	.09	.36	.25	.52	1.11	1.21	.04	4.51	.49	.42	.03
IN.	.22	.10	.42	.28	.54	1.28	1.35	.04	5.03	.57	.49	.03

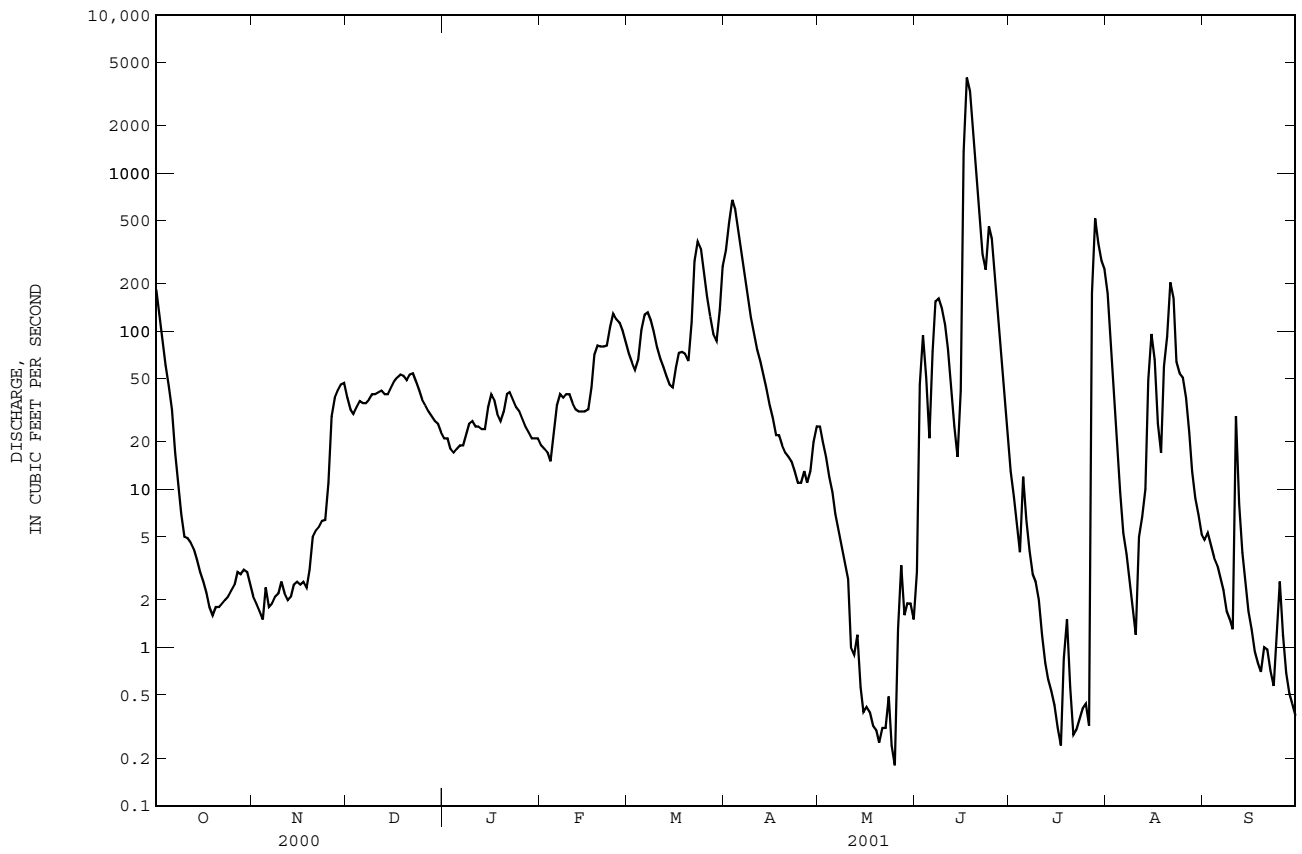
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	77.2	37.6	80.0	192	206	237	130	56.2	74.0	31.7	77.1	172
MAX	614	158	254	509	651	663	326	321	487	102	488	1838
(WY)	2000	1993	1990	1993	1998	1989	1989	1989	2001	1991	1992	1999
MIN	.000	.065	1.70	26.6	55.9	58.3	5.25	1.07	.010	.000	.009	.000
(WY)	1995	1995	1995	2001	2001	1988	1995	1994	1994	1994	1993	1994

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	31092.26		30022.10			
ANNUAL MEAN	85.0		82.3		116	
HIGHEST ANNUAL MEAN					208	1999
LOWEST ANNUAL MEAN					57.1	1988
HIGHEST DAILY MEAN	1500	Jan 31	4000	Jun 17	14500	Sep 17 1999
LOWEST DAILY MEAN	.23	Jun 27	.18	May 25	.00	Jul 30 1987
ANNUAL SEVEN-DAY MINIMUM	1.2	Jun 13	.30	May 19	.00	Oct 8 1987
MAXIMUM PEAK FLOW			4210	Jun 17	15700*	Sep 16 1999
MAXIMUM PEAK STAGE			12.07	Jun 17	18.52*	Sep 16 1999
INSTANTANEOUS LOW FLOW			.12	May 25	.00*	Jul 29 1987
ANNUAL RUNOFF (CFSM)	.79		.76		1.07	
ANNUAL RUNOFF (INCHES)	10.71		10.34		14.55	
10 PERCENT EXCEEDS	213		145		275	
50 PERCENT EXCEEDS	35		23		28	
90 PERCENT EXCEEDS	2.1		.96		.07	

e Estimated.
* See REMARKS.

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



0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC

LOCATION.--Lat 35°54'43", long 76°49'03", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, on pier at San Souci ferry near State Road 1500 and 9.5 mi southeast of Windsor.

DRAINAGE AREA.--293 mi^2.

PERIOD OF RECORD.--October 1990 to September 1993, August 1996 to January 2001 (discontinued). Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

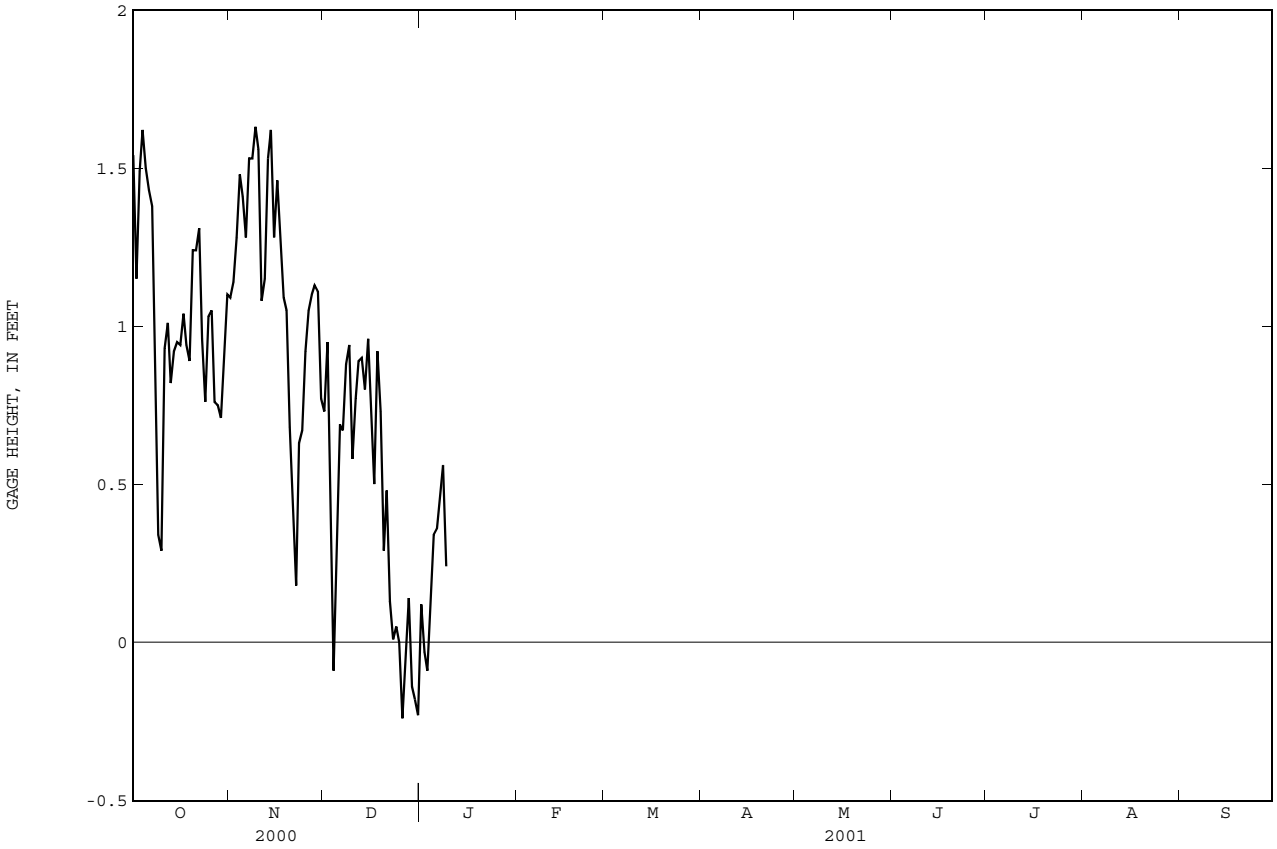
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 5.65 ft, Sept. 17, 18, 1999; minimum elevation, -0.78 ft, Dec. 31, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1.90 ft, Oct. 7; minimum elevation, -0.78 ft, Dec. 31.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.54	1.09	.73	.12	---	---	---	---	---	---	---	---
2	1.15	1.14	.95	-.03	---	---	---	---	---	---	---	---
3	1.49	1.28	.53	-.09	---	---	---	---	---	---	---	---
4	1.62	1.48	-.09	.11	---	---	---	---	---	---	---	---
5	1.50	1.41	.29	.34	---	---	---	---	---	---	---	---
6	1.43	1.28	.69	.36	---	---	---	---	---	---	---	---
7	1.38	1.53	.67	.46	---	---	---	---	---	---	---	---
8	1.01	1.53	.88	.56	---	---	---	---	---	---	---	---
9	.34	1.63	.94	.24	---	---	---	---	---	---	---	---
10	.29	1.56	.58	---	---	---	---	---	---	---	---	---
11	.93	1.08	.77	---	---	---	---	---	---	---	---	---
12	1.01	1.15	.89	---	---	---	---	---	---	---	---	---
13	.82	1.53	.90	---	---	---	---	---	---	---	---	---
14	.92	1.62	.80	---	---	---	---	---	---	---	---	---
15	.95	1.28	.96	---	---	---	---	---	---	---	---	---
16	.94	1.46	.73	---	---	---	---	---	---	---	---	---
17	1.04	1.26	.50	---	---	---	---	---	---	---	---	---
18	.94	1.09	.92	---	---	---	---	---	---	---	---	---
19	.89	1.05	.73	---	---	---	---	---	---	---	---	---
20	1.24	.68	.29	---	---	---	---	---	---	---	---	---
21	1.24	.48	.48	---	---	---	---	---	---	---	---	---
22	1.31	.18	.13	---	---	---	---	---	---	---	---	---
23	.96	.63	.01	---	---	---	---	---	---	---	---	---
24	.76	.67	.05	---	---	---	---	---	---	---	---	---
25	1.03	.92	.00	---	---	---	---	---	---	---	---	---
26	1.05	1.05	-.24	---	---	---	---	---	---	---	---	---
27	.76	1.10	-.04	---	---	---	---	---	---	---	---	---
28	.75	1.13	.14	---	---	---	---	---	---	---	---	---
29	.71	1.11	-.14	---	---	---	---	---	---	---	---	---
30	.89	.77	-.18	---	---	---	---	---	---	---	---	---
31	1.10	---	-.23	---	---	---	---	---	---	---	---	---
MEAN	1.03	1.14	.44	---	---	---	---	---	---	---	---	---
MAX	1.62	1.63	.96	---	---	---	---	---	---	---	---	---
MIN	.29	.18	-.24	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC--Continued



02081138 WELCH CREEK ABOVE SEO NEAR PLYMOUTH, NC

LOCATION.--Lat 35°49'45", long 76°47'06", Washington County, Hydrologic Unit 03010107, at bridge on U.S. Highway 64, 3.0 mi upstream from mouth, and 1.0 mi west of Plymouth.

DRAINAGE AREA.--42 mi^2.

TIDAL-ELEVATION RECORDS

PERIOD OF RECORD.--April 2001 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

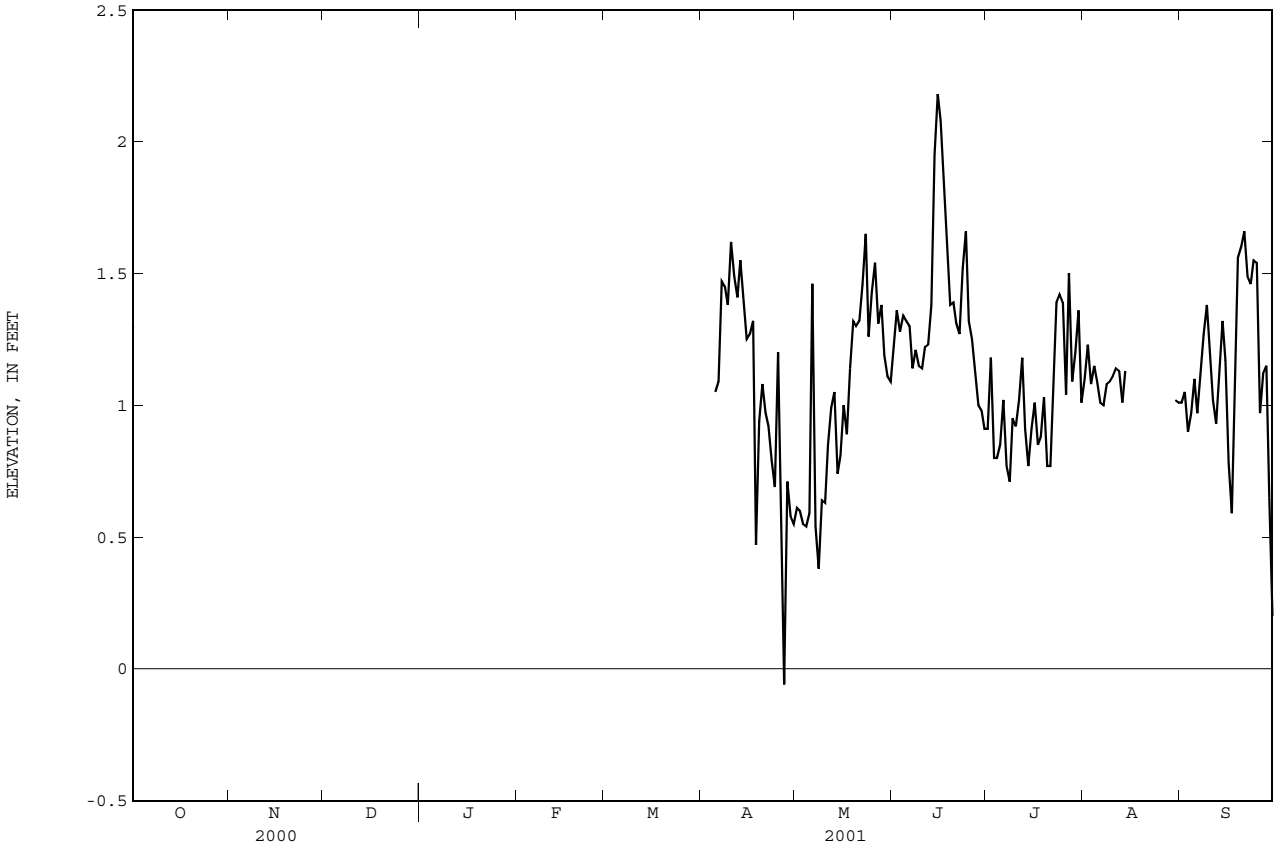
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2.30 ft, June 15, 2001; minimum elevation, -0.31 ft, Apr. 27, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.30 ft, June 15; minimum elevation, -0.31 ft, Apr. 6.

ELEVATION, IN FEET, WATER YEAR APRIL 2001 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.61	1.23	.91	1.10	1.01
2	---	---	---	---	---	---	---	.60	1.36	1.18	1.23	1.05
3	---	---	---	---	---	---	---	.55	1.28	.80	1.08	.90
4	---	---	---	---	---	---	---	.54	1.34	.80	1.15	.97
5	---	---	---	---	---	---	1.05	.59	1.32	.85	1.09	1.10
6	---	---	---	---	---	---	1.09	1.46	1.30	1.02	1.01	.97
7	---	---	---	---	---	---	1.47	.54	1.14	.77	1.00	1.12
8	---	---	---	---	---	---	1.45	.38	1.21	.71	1.08	1.27
9	---	---	---	---	---	---	1.38	.64	1.15	.95	1.09	1.38
10	---	---	---	---	---	---	1.62	.63	1.14	.92	1.11	1.21
11	---	---	---	---	---	---	1.49	.85	1.22	1.02	1.14	1.02
12	---	---	---	---	---	---	1.41	.99	1.23	1.18	1.13	.93
13	---	---	---	---	---	---	1.55	1.05	1.38	.91	1.01	1.11
14	---	---	---	---	---	---	1.41	.74	1.95	.77	1.13	1.32
15	---	---	---	---	---	---	1.25	.81	2.18	.91	---	1.17
16	---	---	---	---	---	---	1.27	1.00	2.08	1.01	---	.78
17	---	---	---	---	---	---	1.32	.89	1.81	.85	---	.59
18	---	---	---	---	---	---	.47	1.14	1.60	.88	---	1.21
19	---	---	---	---	---	---	.94	1.32	1.38	1.03	---	1.56
20	---	---	---	---	---	---	1.08	1.30	1.39	.77	---	1.60
21	---	---	---	---	---	---	.97	1.32	1.31	.77	---	1.66
22	---	---	---	---	---	---	.92	1.46	1.27	1.03	---	1.49
23	---	---	---	---	---	---	.79	1.65	1.52	1.39	---	1.46
24	---	---	---	---	---	---	.69	1.26	1.66	1.42	---	1.55
25	---	---	---	---	---	---	1.20	1.43	1.32	1.39	---	1.54
26	---	---	---	---	---	---	.55	1.54	1.25	1.04	---	.97
27	---	---	---	---	---	---	-.06	1.31	1.13	1.50	---	1.12
28	---	---	---	---	---	---	.71	1.38	1.00	1.09	---	1.15
29	---	---	---	---	---	---	.58	1.19	.98	1.20	---	.65
30	---	---	---	---	---	---	.55	1.11	.91	1.36	1.02	.20
31	---	---	---	---	---	---	---	1.09	---	1.01	1.01	---
MEAN	---	---	---	---	---	---	---	1.01	1.37	1.01	---	1.14
MAX	---	---	---	---	---	---	---	1.65	2.18	1.50	---	1.66
MIN	---	---	---	---	---	---	---	.38	.91	.71	---	.20

02081138 WELCH CREEK ABOVE SEO NEAR PLYMOUTH, NC--Continued



0208114055 ROANOKE RIVER AT PLYMOUTH, NC

LOCATION.--Lat 35°53'00", long 76°45'18", North American Datum, 1983, Washington County, Hydrologic Unit 03010107, at pier on right bank, 250 ft upstream of city boat ramp, approximately 8 mi upstream from mouth, at Plymouth.

DRAINAGE AREA.--9,350 mi^2.

PERIOD OF RECORD.--August 1996 to current year. Records from August 1996 to September 1997 are unpublished and available in the USGS District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level.

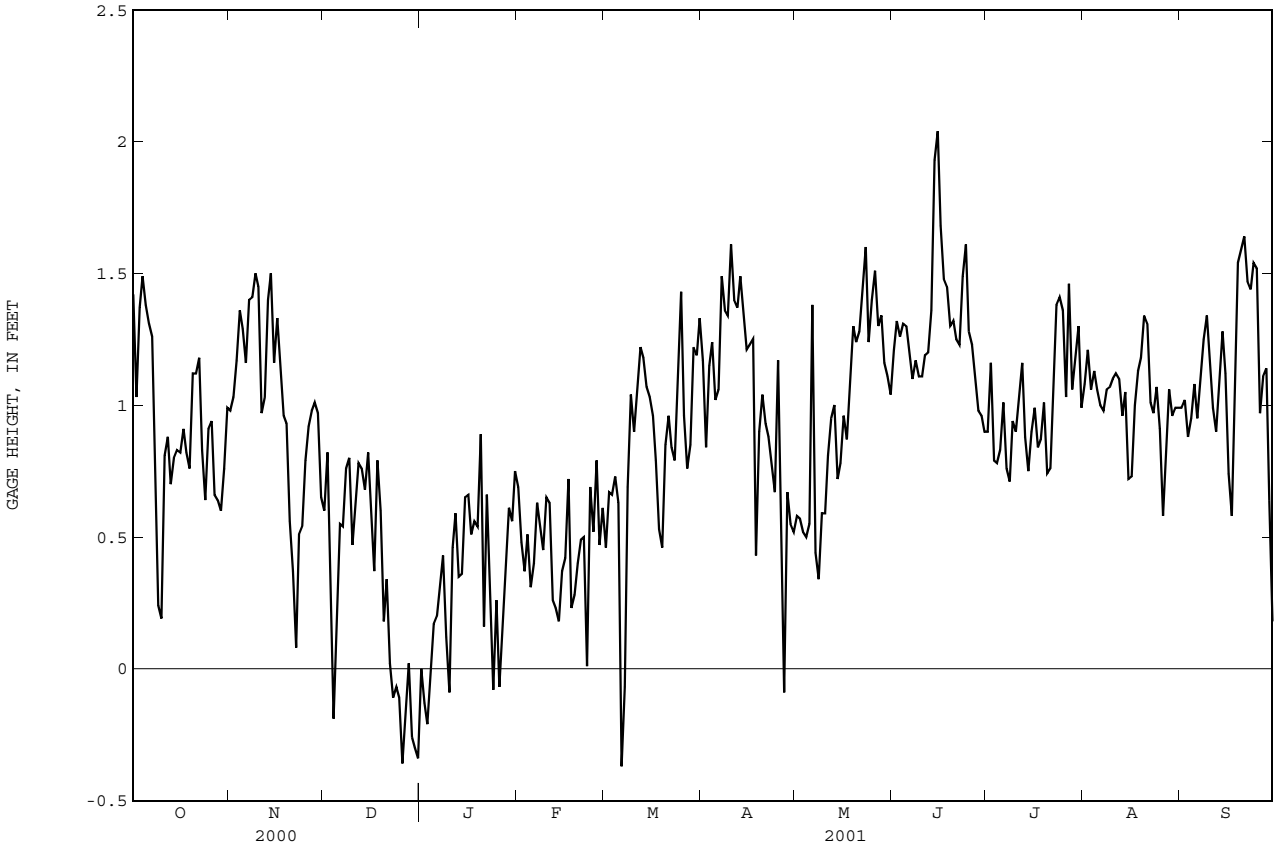
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 4.71 ft, Sept. 16, 1999; minimum elevation, -1.22 ft, Jan. 25, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.17 ft, June 15; minimum elevation, -0.91 ft, Mar. 6.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.42	.98	.60	.00	.69	.46	1.17	.58	1.21	.90	1.08	.99
2	1.03	1.03	.82	-.13	.48	.67	.84	.57	1.32	1.16	1.21	1.02
3	1.37	1.17	.42	-.21	.37	.66	1.15	.52	1.26	.79	1.06	.88
4	1.49	1.36	-.19	-.02	.51	.73	1.24	.50	1.31	.78	1.13	.95
5	1.38	1.29	.17	.17	.31	.63	1.02	.55	1.30	.83	1.06	1.08
6	1.31	1.16	.55	.20	.40	-.37	1.06	1.38	1.19	1.01	1.00	.95
7	1.26	1.40	.54	.33	.63	-.07	1.49	.44	1.10	.76	.98	1.10
8	.90	1.41	.76	.43	.53	.69	1.36	.34	1.17	.71	1.06	1.25
9	.24	1.50	.80	.12	.45	1.04	1.34	.59	1.11	.94	1.07	1.34
10	.19	1.45	.47	-.09	.65	.90	1.61	.59	1.11	.90	1.10	1.18
11	.81	.97	.64	.46	.63	1.06	1.40	.81	1.19	1.02	1.12	.99
12	.88	1.03	.78	.59	.26	1.22	1.37	.95	1.20	1.16	1.10	.90
13	.70	1.40	.76	.35	.23	1.18	1.49	1.00	1.36	.88	.96	1.08
14	.80	1.50	.68	.36	.18	1.07	1.36	.72	1.93	.75	1.05	1.28
15	.83	1.16	.82	.65	.37	1.03	1.21	.78	2.04	.90	.72	1.12
16	.82	1.33	.59	.66	.42	.96	1.23	.96	1.68	.99	.73	.74
17	.91	1.14	.37	.51	.72	.79	1.25	.87	1.48	.84	1.00	.58
18	.82	.96	.79	.56	.23	.53	.43	1.11	1.45	.87	1.13	1.20
19	.76	.93	.60	.54	.28	.46	.90	1.30	1.30	1.01	1.18	1.54
20	1.12	.56	.18	.89	.40	.85	1.04	1.24	1.32	.74	1.34	1.59
21	1.12	.37	.34	.16	.49	.96	.93	1.28	1.25	.76	1.31	1.64
22	1.18	.08	.02	.66	.50	.84	.88	1.44	1.23	1.01	1.01	1.47
23	.83	.51	-.11	.27	.01	.79	.77	1.60	1.49	1.38	.97	1.44
24	.64	.54	-.07	-.08	.69	1.04	.67	1.24	1.61	1.41	1.07	1.54
25	.91	.79	-.11	.26	.52	1.43	1.17	1.40	1.28	1.36	.91	1.52
26	.94	.92	-.36	-.07	.79	.96	.52	1.51	1.23	1.03	.58	.97
27	.66	.98	-.17	.20	.47	.76	-.09	1.30	1.10	1.46	.85	1.11
28	.64	1.01	.02	.40	.61	.85	.67	1.34	.98	1.06	1.06	1.14
29	.60	.97	-.26	.61	---	1.22	.55	1.16	.96	1.17	.96	.64
30	.76	.65	-.30	.56	---	1.19	.52	1.11	.90	1.30	.99	.18
31	.99	---	-.34	.75	---	1.33	---	1.04	---	.99	.99	---
MEAN	.91	1.02	.32	.33	.46	.83	1.02	.97	1.30	1.00	1.03	1.11
MAX	1.49	1.50	.82	.89	.79	1.43	1.61	1.60	2.04	1.46	1.34	1.64
MIN	.19	.08	-.36	-.21	.01	-.37	-.09	.34	.90	.71	.58	.18

0208114055 ROANOKE RIVER AT PLYMOUTH, NC--Continued



0208114150 ROANOKE RIVER AT NC 45 NR WESTOVER, NC

LOCATION.--Lat 35°54'54", long 76°43'22", North American Datum of 1983, Bertie County, Hydrologic Unit 03010107, 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 District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

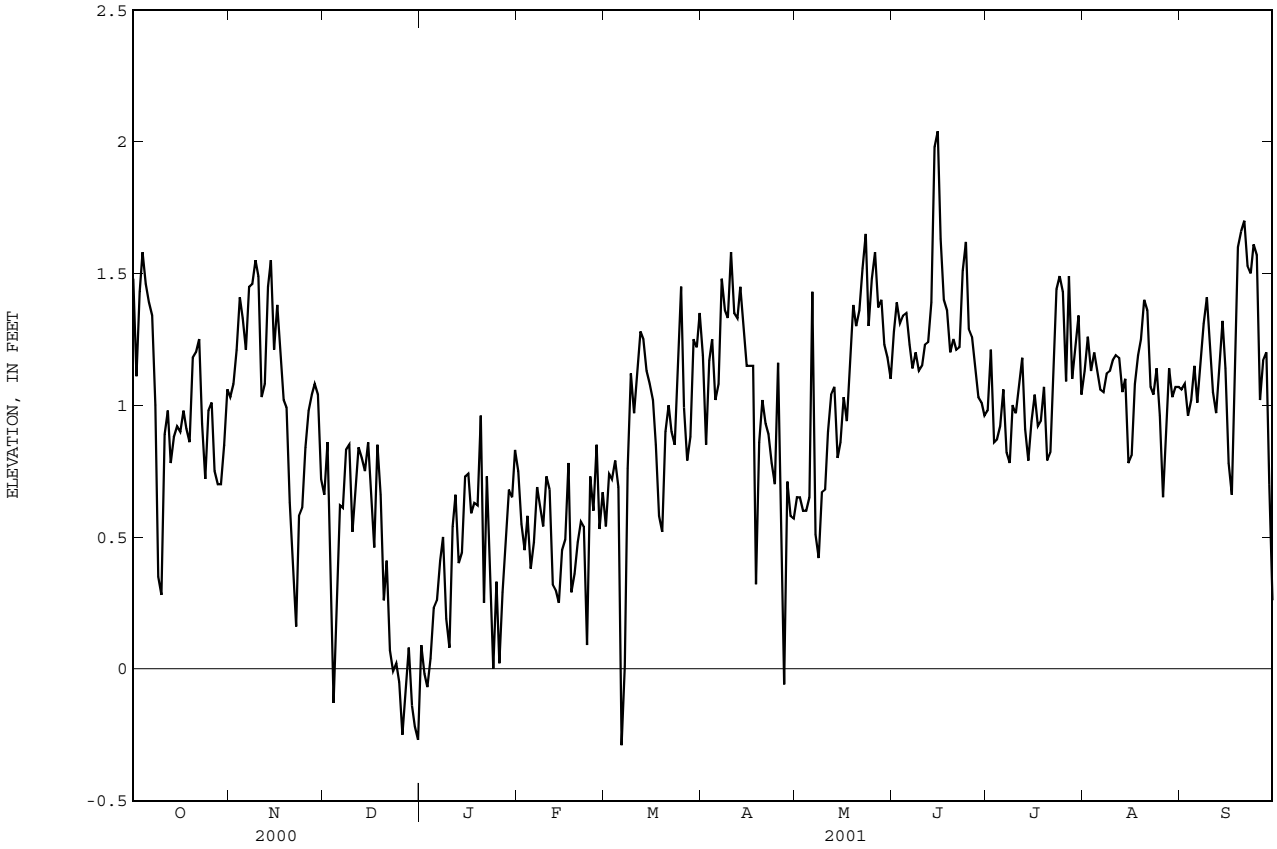
EXTREMES FOR PERIOD OF RECORD.--Maximum recorded elevation, 4.68 ft, Sept. 16, 1999; minimum recorded elevation, -1.20 ft, Sept. 1, 1993.

EXTREMES FOR CURRENT YEAR.--Maximum recorded elevation, 2.19 ft, June 14, 15; minimum recorded elevation, -0.73 ft, Mar. 6.

ELEVATION, IN FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.48	1.03	.66	.09	.75	.54	1.19	.65	1.28	.98	1.13	1.06
2	1.11	1.08	.86	-.02	.55	.74	.85	.65	1.39	1.21	1.26	1.08
3	1.43	1.21	.46	-.07	.45	.72	1.17	.60	1.31	.86	1.13	.96
4	1.58	1.41	-.13	.04	.58	.79	1.25	.60	1.34	.87	1.20	1.02
5	1.46	1.33	.24	.23	.38	.69	1.02	.65	1.35	.92	1.13	1.15
6	1.39	1.21	.62	.26	.48	-.29	1.08	1.43	1.23	1.06	1.06	1.01
7	1.34	1.45	.61	.41	.69	.01	1.48	.51	1.14	.82	1.05	1.16
8	1.00	1.46	.83	.50	.61	.76	1.36	.42	1.20	.78	1.12	1.31
9	.35	1.55	.85	.19	.54	1.12	1.33	.67	1.13	1.00	1.13	1.41
10	.28	1.49	.52	.08	.73	.97	1.58	.68	1.15	.97	1.17	1.24
11	.89	1.03	.70	.54	.68	1.13	1.35	.90	1.23	1.08	1.19	1.05
12	.98	1.08	.84	.66	.32	1.28	1.33	1.04	1.24	1.18	1.18	.97
13	.78	1.45	.80	.40	.30	1.25	1.45	1.07	1.39	.91	1.05	1.14
14	.88	1.55	.75	.44	.25	1.13	1.29	.80	1.98	.79	1.10	1.32
15	.92	1.21	.86	.73	.45	1.08	1.15	.86	2.04	.94	.78	1.14
16	.90	1.38	.66	.74	.49	1.02	1.15	1.03	1.63	1.04	.81	.78
17	.98	1.20	.46	.59	.78	.85	1.15	.94	1.40	.92	1.08	.66
18	.91	1.02	.85	.63	.29	.58	.32	1.18	1.36	.94	1.19	1.27
19	.86	.99	.66	.62	.36	.52	.86	1.38	1.20	1.07	1.25	1.60
20	1.18	.63	.26	.96	.48	.90	1.02	1.30	1.25	.79	1.40	1.66
21	1.20	.43	.41	.25	.56	1.00	.93	1.36	1.21	.82	1.36	1.70
22	1.25	.16	.07	.73	.54	.90	.89	1.52	1.22	1.08	1.07	1.53
23	.93	.58	-.01	.32	.09	.85	.78	1.65	1.51	1.44	1.04	1.50
24	.72	.61	.02	.00	.73	1.11	.70	1.30	1.62	1.49	1.14	1.61
25	.98	.84	-.05	.33	.60	1.45	1.16	1.48	1.29	1.43	.96	1.57
26	1.01	.98	-.25	.02	.85	.99	.50	1.58	1.26	1.09	.65	1.02
27	.75	1.04	-.09	.29	.53	.79	-.06	1.37	1.14	1.49	.93	1.17
28	.70	1.08	.08	.47	.67	.88	.71	1.40	1.03	1.10	1.14	1.20
29	.70	1.04	-.14	.68	---	1.25	.58	1.23	1.01	1.23	1.03	.70
30	.85	.72	-.22	.65	---	1.22	.57	1.18	.96	1.34	1.07	.26
31	1.06	---	-.27	.83	---	1.35	---	1.10	---	1.04	1.07	---
TOTAL	30.85	32.24	11.91	12.59	14.73	27.58	30.14	32.53	39.49	32.68	33.87	35.25
MEAN	1.00	1.07	.38	.41	.53	.89	1.00	1.05	1.32	1.05	1.09	1.17
MAX	1.58	1.55	.86	.96	.85	1.45	1.58	1.65	2.04	1.49	1.40	1.70
MIN	.28	.16	-.27	-.07	.09	-.29	-.06	.42	.96	.78	.65	.26

0208114150 ROANOKE RIVER AT NC 45 NR WESTOVER, NC--Continued



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 U.S. Fish and Wildlife Service 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. Dissolved oxygen, minimum extremes are reported only as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported only as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	318, September 6, 2001	73, June 20, 21, 2001
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	10,900, July 3, 1999	48, September 21, 1999
pH (TOP), standard units	7.9, July 18, 2000	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	30.7, August 17, 2001	2.7, January 7, 2001
WATER TEMPERATURE (BOTTOM), °C	31.0, July 30, 1998, August 2, 1999	2.8, January 7, 2001
DISSOLVED OXYGEN (TOP), mg/L	12.3, January 6, 7, 2001	3.2, August 24, 2001
DISSOLVED OXYGEN (BOTTOM), mg/L	14.0, January 6, 7, 2001	<1.0, on several days during period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	112, July 18, 2000	42, August 21, 24, 2001
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	115, November 30, 1999	< 10, on several days during period

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

EXTREMES FOR CURRENT WATER YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE (TOP), microsiemens	318, September 6	73, June 20, 21
SPECIFIC CONDUCTANCE (BOTTOM), microsiemens	3960, August 14	76, June 20, 21
pH (TOP), standard units	7.6, November 26	6.0, June 19, 21, 22
pH (BOTTOM), standard units	7.4, February 4, 22, March 1	6.0, June 20, 21
WATER TEMPERATURE (TOP), C	30.7, August 17	2.7, January 7
WATER TEMPERATURE (BOTTOM), C	29.8, August 10	2.8, January 7
DISSOLVED OXYGEN (TOP), mg/L	12.3, January 6, 7	3.2, August 24
DISSOLVED OXYGEN (BOTTOM), mg/L	14.0, January 6, 7	1.2, August 14
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	104, July 10	42, August 21, 24
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	106, January 7	15, August 14

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	158	122	134	262	190	229	179	131	155	---	---	---
2	148	118	130	215	169	191	253	132	169	---	---	---
3	144	124	132	186	161	171	238	155	182	---	---	---
4	177	138	154	182	163	172	189	153	168	---	---	---
5	160	145	151	178	155	168	172	162	168	---	---	---
6	159	147	153	162	149	156	229	168	192	---	---	---
7	203	146	165	163	131	150	262	207	237	---	---	---
8	186	140	149	200	131	176	225	176	196	---	---	---
9	188	142	158	184	171	179	221	162	189	---	---	---
10	174	146	159	189	169	183	183	117	140	---	---	---
11	191	162	170	195	141	168	125	105	114	219	196	206
12	201	161	185	161	141	152	171	117	149	297	196	247
13	170	153	158	182	161	176	251	146	194	---	---	---
14	181	162	168	209	179	191	207	162	189	221	186	202
15	183	170	178	226	177	202	219	157	188	230	191	207
16	191	165	176	181	169	175	190	152	165	221	200	209
17	195	174	187	209	170	195	177	103	148	232	208	218
18	200	180	191	196	165	177	170	104	137	230	187	217
19	193	155	165	185	163	170	236	104	168	221	181	197
20	195	154	179	198	152	167	190	158	176	211	186	194
21	252	181	224	196	144	160	230	156	185	232	175	190
22	220	171	201	159	143	150	178	148	161	245	142	178
23	236	177	210	182	151	166	191	148	157	252	176	215
24	231	180	207	186	157	175	170	146	156	213	180	197
25	225	186	203	189	112	155	194	157	174	206	180	196
26	205	166	186	213	126	187	217	174	197	215	171	191
27	195	165	186	203	150	165	227	192	208	223	179	192
28	---	---	---	202	172	186	232	181	213	250	180	208
29	229	172	192	201	161	183	202	145	166	194	174	182
30	243	198	220	165	146	154	201	142	159	189	164	171
31	236	185	219	---	---	---	---	---	---	235	153	185
MONTH	---	---	---	262	112	174	---	---	---	---	---	---

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	223	152	182	251	147	177	148	135	139	156	148	151
2	196	168	177	204	161	172	145	133	138	168	150	155
3	211	168	189	187	153	164	141	134	136	168	152	158
4	210	148	189	191	149	170	144	132	137	168	156	162
5	219	157	189	199	160	180	145	133	136	173	161	166
6	226	166	186	231	164	188	144	138	141	214	138	161
7	215	178	202	238	156	182	145	130	142	230	147	164
8	---	---	---	235	168	185	---	---	---	188	145	166
9	---	---	---	188	162	170	144	138	140	215	170	185
10	---	---	---	223	175	188	172	131	142	229	163	190
11	---	---	---	207	182	196	155	134	138	206	186	196
12	---	---	---	237	173	210	141	135	137	212	186	196
13	---	---	---	229	173	200	140	136	138	237	193	209
14	206	155	171	218	165	184	139	135	136	206	180	190
15	177	156	164	243	162	187	138	133	137	225	179	193
16	185	164	177	216	170	190	139	134	136	215	159	194
17	196	163	173	196	175	184	144	129	136	234	158	196
18	219	162	185	234	165	180	136	133	134	208	178	192
19	195	160	174	202	139	181	141	131	138	207	192	201
20	192	160	175	208	129	161	145	141	142	255	185	214
21	190	158	174	---	---	---	149	143	145	214	176	190
22	221	125	177	197	149	168	152	145	149	205	180	195
23	220	163	181	173	152	160	156	142	152	232	193	203
24	200	149	172	184	156	165	148	132	144	221	161	184
25	164	148	157	212	140	158	160	134	145	211	168	190
26	194	157	168	157	139	142	149	130	143	203	180	190
27	223	163	179	157	137	142	160	131	145	217	172	184
28	186	160	173	153	138	144	171	147	161	222	159	179
29	---	---	---	150	139	144	160	140	150	211	166	185
30	---	---	---	147	139	142	156	146	151	199	168	182
31	---	---	---	153	134	140	---	---	---	272	146	184
MONTH	---	---	---	---	---	---	---	---	---	272	138	184

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	147	126	132	125	118	122	156	136	149	251	182	213
2	130	124	125	126	118	121	159	120	146	252	192	223
3	127	124	125	148	119	134	167	138	151	227	195	208
4	137	123	127	140	123	130	160	149	155	249	194	219
5	148	136	141	149	127	132	169	150	158	254	188	234
6	171	126	135	143	124	130	168	156	160	318	198	281
7	135	122	131	145	127	138	169	149	160	303	215	266
8	140	129	133	141	131	137	175	152	165	290	205	263
9	141	119	128	178	140	155	173	156	163	265	182	224
10	124	117	120	169	143	157	175	155	164	223	188	207
11	124	117	121	158	121	138	---	---	---	235	188	209
12	128	119	124	124	113	119	---	---	---	227	183	206
13	143	121	129	135	109	121	---	---	---	224	187	204
14	173	112	140	118	108	112	---	---	---	203	177	191
15	175	127	143	120	109	115	189	165	174	213	152	190
16	127	111	119	123	110	116	184	166	174	241	160	185
17	112	98	102	128	119	122	207	164	179	240	181	204
18	99	81	89	136	116	125	244	196	211	196	173	178
19	81	77	79	144	127	133	317	173	208	254	174	202
20	77	73	75	145	126	135	306	181	207	308	253	281
21	77	73	74	136	124	130	215	166	188	306	207	251
22	83	76	79	142	115	134	180	159	168	249	177	202
23	88	81	84	139	126	133	187	171	176	218	169	195
24	94	86	89	178	137	156	205	168	183	248	202	215
25	101	94	99	188	149	160	217	165	193	308	215	253
26	110	99	102	161	140	149	228	161	187	298	177	211
27	111	100	104	182	138	150	197	173	189	195	168	180
28	107	100	104	190	143	154	207	188	194	211	172	187
29	118	106	111	159	143	149	223	196	206	226	195	205
30	121	114	118	157	137	148	228	185	206	241	204	216
31	---	---	---	178	136	144	222	180	193	---	---	---
MONTH	175	73	113	190	108	135	---	---	---	318	152	217

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	262	189	230	183	138	162	226	169	185
2	---	---	---	215	173	195	251	139	174	266	226	253
3	139	121	127	187	164	175	236	163	188	263	190	229
4	178	128	157	188	166	176	190	160	174	244	194	225
5	160	143	152	182	158	172	180	168	175	206	163	175
6	157	151	154	165	154	159	224	175	197	182	162	172
7	207	150	167	166	134	157	260	220	247	194	167	180
8	189	144	152	206	136	183	245	187	203	202	186	194
9	192	145	162	190	180	187	223	171	197	223	184	199
10	174	149	156	193	180	187	193	130	152	228	192	207
11	185	160	170	199	146	173	136	117	127	219	196	209
12	206	166	188	166	146	157	182	130	160	307	195	254
13	179	157	165	186	165	179	268	176	205	---	---	---
14	179	170	175	213	184	195	214	180	204	228	196	210
15	188	172	184	230	183	208	232	168	199	240	197	215
16	199	167	180	188	174	181	206	164	178	240	207	218
17	214	185	196	214	176	200	186	117	159	241	220	227
18	221	178	201	202	173	183	182	90	123	244	196	228
19	199	153	165	191	170	177	170	89	130	237	188	211
20	185	148	173	204	159	173	142	123	135	225	198	207
21	242	177	221	202	152	167	172	123	143	246	188	206
22	238	188	201	164	151	157	147	119	127	260	160	196
23	232	177	211	189	159	174	150	120	126	267	194	234
24	234	190	209	193	168	182	136	119	127	238	202	220
25	226	186	204	194	125	157	206	128	185	226	200	217
26	206	168	187	226	131	193	236	191	212	238	194	214
27	198	166	187	213	156	170	239	208	224	247	201	216
28	---	---	---	204	176	186	242	195	226	274	203	234
29	232	175	192	202	166	186	211	157	182	220	199	208
30	244	199	221	169	152	159	207	157	172	220	190	199
31	237	187	221	---	---	---	210	192	202	264	181	218
MONTH	---	---	---	262	125	179	268	89	175	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	258	181	215	---	---	---	---	---	---	168	159	163
2	229	199	209	---	---	---	---	---	---	182	161	168
3	244	203	222	---	---	---	---	---	---	177	163	171
4	258	201	228	---	---	---	---	---	---	179	169	173
5	259	193	228	---	---	---	---	---	---	181	170	174
6	260	201	220	---	---	---	145	139	142	211	147	170
7	256	216	240	---	---	---	147	132	143	234	155	170
8	---	---	---	---	---	---	---	---	---	197	167	174
9	---	---	---	---	---	---	145	140	142	215	173	189
10	---	---	---	---	---	---	173	136	143	220	168	192
11	---	---	---	---	---	---	156	136	139	209	187	203
12	---	---	---	---	---	---	141	135	138	215	190	198
13	---	---	---	---	---	---	140	136	138	258	194	214
14	253	204	222	---	---	---	140	136	138	209	180	193
15	227	206	214	---	---	---	138	136	137	226	176	193
16	236	214	228	---	---	---	140	135	137	215	178	197
17	252	214	226	---	---	---	145	135	138	231	151	195
18	270	215	240	---	---	---	137	134	135	201	180	192
19	252	214	231	---	---	---	141	137	139	207	189	200
20	252	222	234	---	---	---	144	140	142	241	179	211
21	248	216	230	---	---	---	148	142	144	206	173	189
22	277	195	236	---	---	---	152	146	148	196	179	185
23	---	---	---	---	---	---	156	141	151	226	184	194
24	---	---	---	---	---	---	147	142	144	219	159	178
25	---	---	---	---	---	---	162	141	146	197	161	183
26	---	---	---	---	---	---	149	141	145	198	174	185
27	---	---	---	---	---	---	162	144	148	198	168	178
28	---	---	---	---	---	---	173	158	164	217	157	174
29	---	---	---	---	---	---	169	151	160	194	164	180
30	---	---	---	---	---	---	170	158	164	193	166	178
31	---	---	---	---	---	---	---	---	---	281	147	181
MONTH	---	---	---	---	---	---	---	---	---	281	147	185

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

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	147	124	131	123	116	120	158	124	151	1540	206	941
2	128	122	123	125	115	119	162	122	150	262	192	235
3	124	122	123	149	118	136	168	138	151	242	201	218
4	136	121	125	147	133	141	161	151	158	235	200	219
5	143	133	137	148	135	140	172	149	160	1310	235	530
6	168	122	132	151	133	138	167	157	161	338	256	301
7	133	119	128	153	135	145	171	149	161	332	271	286
8	137	127	130	147	139	144	178	159	167	303	264	280
9	138	116	126	185	147	161	175	159	165	287	218	242
10	121	116	118	175	150	166	175	158	167	226	199	216
11	123	116	120	169	130	146	---	---	---	244	198	219
12	127	120	124	132	122	127	---	---	---	235	195	213
13	145	123	130	143	119	130	---	---	---	231	194	212
14	172	116	145	127	117	123	---	---	---	211	184	198
15	174	127	143	128	119	124	2150	166	398	220	165	198
16	127	113	120	131	120	125	182	168	176	233	168	194
17	114	100	104	135	128	131	1930	169	785	229	191	219
18	101	84	91	142	124	131	3050	791	2340	191	183	187
19	84	80	82	151	134	140	3060	1310	2890	331	186	213
20	80	76	78	156	133	142	2960	673	2590	312	255	283
21	80	76	77	144	132	138	2880	176	901	309	213	258
22	84	79	82	148	133	143	192	169	179	256	191	205
23	89	82	85	139	133	137	204	183	191	218	162	193
24	94	87	89	184	139	161	216	179	195	1490	202	451
25	103	94	100	197	154	166	232	174	205	1620	300	1110
26	112	99	103	166	148	155	243	171	201	300	172	210
27	112	101	105	188	146	155	207	184	200	190	160	173
28	108	100	104	190	147	158	1000	197	411	207	166	183
29	117	106	111	163	146	153	1470	1000	1270	225	193	203
30	118	112	116	166	137	149	1650	858	1450	240	202	214
31	---	---	---	176	138	145	1680	587	1500	---	---	---
MONTH	174	76	113	197	115	142	---	---	---	1620	160	293

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	6.4	6.4	7.3	7.2	7.2	7.2	7.1	7.2	7.0	6.9	7.0
2	6.6	6.4	6.5	7.2	7.1	7.2	7.4	7.1	7.2	7.1	7.0	7.0
3	6.6	6.5	6.6	7.2	7.1	7.1	7.4	7.3	7.3	7.1	6.9	7.0
4	6.7	6.6	6.6	7.2	7.1	7.1	7.3	7.1	7.2	7.1	6.9	7.0
5	6.7	6.6	6.6	7.2	7.1	7.1	7.2	7.1	7.1	7.1	7.0	7.0
6	6.7	6.6	6.6	7.1	7.0	7.1	7.2	7.1	7.2	7.0	6.9	7.0
7	6.8	6.6	6.7	7.2	7.0	7.2	7.3	7.2	7.2	7.0	6.9	7.0
8	6.8	6.6	6.7	7.2	7.1	7.2	7.2	7.1	7.1	7.1	7.0	7.0
9	6.8	6.7	6.7	7.2	7.1	7.2	7.2	7.1	7.2	7.1	7.0	7.0
10	6.8	6.7	6.7	7.2	7.1	7.2	7.2	7.0	7.1	7.0	6.9	7.0
11	6.9	6.7	6.8	7.2	7.1	7.2	7.1	7.0	7.0	7.1	7.0	7.0
12	6.9	6.8	6.8	7.2	7.1	7.2	7.2	7.0	7.1	7.2	7.0	7.1
13	6.9	6.8	6.8	7.2	7.1	7.2	7.3	7.1	7.2	---	---	---
14	6.9	6.8	6.8	7.3	7.1	7.3	7.2	7.1	7.2	7.1	7.0	7.1
15	7.0	6.9	6.9	7.4	7.2	7.3	7.3	7.1	7.2	7.1	7.0	7.0
16	7.0	6.9	6.9	7.3	7.2	7.2	7.2	7.1	7.2	7.1	6.9	7.0
17	7.0	6.9	7.0	7.3	7.2	7.3	7.2	7.1	7.1	7.0	6.8	6.9
18	7.0	6.9	7.0	7.3	7.2	7.2	7.2	7.0	7.0	6.9	6.8	6.9
19	7.0	6.8	6.9	7.3	7.2	7.3	7.2	6.9	7.1	6.9	6.8	6.9
20	6.9	6.8	6.9	7.4	7.2	7.3	7.1	7.1	7.1	6.9	6.8	6.9
21	7.0	6.9	6.9	7.5	7.2	7.4	7.2	7.0	7.1	7.0	6.9	6.9
22	6.9	6.8	6.9	7.4	7.3	7.4	7.1	7.0	7.0	7.0	6.8	6.9
23	7.0	6.9	6.9	7.5	7.4	7.5	7.2	7.0	7.1	7.1	7.0	7.0
24	7.0	6.9	6.9	7.5	7.5	7.5	7.1	7.0	7.0	7.1	6.9	7.0
25	7.0	6.9	6.9	7.5	7.3	7.4	7.2	7.0	7.1	7.1	6.9	7.0
26	7.0	6.9	7.0	7.6	7.4	7.5	7.2	7.1	7.2	7.1	7.0	7.0
27	7.1	6.9	7.0	7.5	7.3	7.4	7.2	7.1	7.1	7.1	6.9	7.0
28	---	---	---	7.4	7.3	7.3	7.2	7.1	7.2	7.1	6.9	7.0
29	7.1	7.0	7.1	7.3	7.2	7.3	7.2	7.0	7.1	6.9	6.8	6.9
30	7.2	7.1	7.1	7.3	7.2	7.2	7.1	7.0	7.0	7.0	6.9	6.9
31	7.2	7.1	7.2	---	---	---	7.1	7.0	7.1	7.1	6.9	7.0
MONTH	---	---	---	7.6	7.0	7.3	7.4	6.9	7.1	---	---	---

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.1	6.9	7.0	7.2	7.0	7.1	6.9	6.8	6.8	7.2	7.1	7.2
2	7.1	7.0	7.0	7.1	6.9	7.0	6.8	6.7	6.8	7.3	7.2	7.2
3	7.1	6.9	7.0	6.9	6.9	6.9	6.8	6.7	6.7	7.3	7.3	7.3
4	7.1	6.9	7.0	6.9	6.8	6.9	6.8	6.7	6.8	7.3	7.0	7.1
5	7.1	7.0	7.0	6.9	6.8	6.9	7.1	6.8	6.8	7.0	6.9	7.0
6	7.1	6.9	7.0	7.0	6.8	6.9	6.8	6.8	6.8	7.2	7.0	7.0
7	7.1	7.0	7.0	7.1	6.9	7.0	6.9	6.8	6.8	7.2	7.0	7.1
8	---	---	---	7.1	6.9	7.0	---	---	---	7.1	7.0	7.0
9	---	---	---	7.0	6.9	7.0	6.7	6.6	6.7	7.1	7.0	7.0
10	---	---	---	7.0	7.0	7.0	6.8	6.6	6.6	7.1	6.9	7.0
11	---	---	---	7.1	6.9	7.0	6.8	6.6	6.6	7.0	6.9	7.0
12	---	---	---	7.1	7.0	7.0	6.7	6.6	6.6	7.0	7.0	7.0
13	---	---	---	7.2	7.1	7.1	6.7	6.5	6.6	7.1	7.0	7.0
14	6.9	6.8	6.8	7.1	7.0	7.1	6.7	6.5	6.6	7.0	6.9	7.0
15	6.9	6.8	6.8	7.0	6.9	7.0	6.7	6.7	6.7	7.0	6.9	7.0
16	6.9	6.8	6.9	7.0	6.8	6.9	6.8	6.7	6.7	7.0	6.9	6.9
17	6.9	6.8	6.9	6.9	6.8	6.8	6.7	6.6	6.7	7.0	6.8	6.9
18	7.0	6.8	6.9	6.9	6.8	6.8	6.8	6.6	6.8	7.0	6.8	6.9
19	6.9	6.8	6.8	7.0	6.9	6.9	6.8	6.8	6.8	7.0	6.9	6.9
20	7.0	6.7	6.8	7.0	6.8	6.9	6.9	6.8	6.8	7.0	6.9	6.9
21	6.9	6.8	6.8	---	---	---	6.9	6.8	6.9	6.9	6.8	6.9
22	6.9	6.8	6.8	7.0	6.9	6.9	7.0	6.9	7.0	6.9	6.8	6.9
23	7.0	6.7	6.8	7.0	6.9	6.9	7.1	7.0	7.0	6.9	6.8	6.8
24	7.0	6.9	7.0	6.9	6.8	6.9	7.1	7.0	7.0	6.9	6.7	6.8
25	7.0	6.9	7.0	7.0	6.8	6.9	7.2	6.9	7.1	6.8	6.7	6.8
26	7.1	7.0	7.0	6.9	6.8	6.8	7.2	7.1	7.1	6.8	6.7	6.8
27	7.1	7.0	7.0	6.9	6.9	6.9	7.2	7.1	7.1	6.8	6.7	6.7
28	7.1	7.0	7.0	7.0	6.9	7.0	7.2	7.1	7.1	6.8	6.7	6.7
29	---	---	---	7.0	7.0	7.0	7.2	7.2	7.2	6.8	6.7	6.8
30	---	---	---	7.0	6.8	7.0	7.2	7.2	7.2	6.8	6.7	6.7
31	---	---	---	6.9	6.8	6.9	---	---	---	6.9	6.7	6.8
MONTH	---	---	---	---	---	---	---	---	---	7.3	6.7	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	6.7	6.7	6.7	6.6	6.6	6.9	6.7	6.8	7.0	6.8	6.9
2	6.8	6.7	6.7	6.7	6.6	6.7	6.8	6.7	6.7	7.0	6.9	6.9
3	6.8	6.7	6.7	6.8	6.7	6.7	6.8	6.7	6.7	7.0	6.9	6.9
4	6.7	6.6	6.7	6.9	6.8	6.8	6.8	6.7	6.7	7.0	6.8	6.9
5	6.8	6.7	6.7	7.0	6.8	6.9	6.9	6.7	6.8	7.0	6.8	6.9
6	6.8	6.6	6.6	7.0	6.8	6.9	7.1	6.7	6.8	7.1	6.9	7.0
7	6.6	6.6	6.6	6.9	6.7	6.8	6.9	6.8	6.8	7.1	6.9	7.0
8	6.7	6.6	6.6	6.9	6.7	6.8	6.9	6.8	6.9	7.1	6.9	7.0
9	6.6	6.4	6.5	6.9	6.8	6.8	7.1	6.9	6.9	7.1	6.9	7.0
10	6.4	6.4	6.4	7.2	6.8	6.9	7.1	7.0	7.1	7.0	6.9	6.9
11	6.5	6.2	6.4	6.9	6.7	6.8	---	---	---	7.0	6.9	6.9
12	6.5	6.4	6.5	6.8	6.7	6.8	---	---	---	7.1	6.9	7.0
13	6.5	6.4	6.4	6.8	6.7	6.7	---	---	---	7.0	6.9	7.0
14	6.7	6.4	6.6	6.7	6.6	6.7	---	---	---	7.1	7.0	7.0
15	6.8	6.6	6.7	6.7	6.7	6.7	7.2	7.1	7.1	7.2	7.1	7.1
16	6.6	6.4	6.5	6.8	6.7	6.7	7.1	7.0	7.0	7.2	7.1	7.1
17	6.4	6.3	6.3	6.9	6.7	6.7	7.3	7.0	7.1	7.2	6.9	7.0
18	6.3	6.1	6.2	6.9	6.7	6.7	7.1	7.0	7.0	7.0	6.9	6.9
19	6.2	6.0	6.1	6.8	6.6	6.7	7.0	7.0	7.0	---	---	---
20	6.2	6.1	6.1	6.8	6.5	6.6	7.0	6.9	7.0	7.2	7.1	7.2
21	6.1	6.0	6.1	6.9	6.5	6.6	7.0	6.9	7.0	7.2	7.0	7.1
22	6.2	6.0	6.1	6.9	6.6	6.7	7.0	6.8	6.9	7.1	6.9	7.0
23	6.2	6.1	6.1	7.1	6.6	6.8	6.9	6.9	6.9	7.1	6.9	7.0
24	6.2	6.1	6.1	6.9	6.6	6.7	6.9	6.9	6.9	7.1	7.0	7.1
25	6.3	6.1	6.3	6.8	6.6	6.8	7.0	6.8	6.9	7.2	7.1	7.1
26	6.3	6.2	6.3	6.8	6.6	6.7	6.9	6.8	6.9	7.2	7.0	7.1
27	6.3	6.2	6.3	6.9	6.6	6.7	7.0	6.8	6.9	7.1	7.0	7.0
28	6.3	6.2	6.3	6.9	6.7	6.8	7.0	6.8	6.9	7.1	7.0	7.1
29	6.4	6.3	6.3	6.8	6.7	6.7	6.9	6.8	6.9	7.2	7.1	7.1
30	6.6	6.4	6.5	6.7	6.6	6.7	6.8	6.8	6.8	7.2	7.1	7.2
31	---	---	---	6.8	6.6	6.7	6.9	6.8	6.8	---	---	---
MONTH	6.8	6.0	6.4	7.2	6.5	6.7	---	---	---	---	---	---

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.6	6.5	6.6	7.2	7.1	7.2	7.1	6.9	7.0	7.2	7.1	7.1
2	6.7	6.3	6.6	7.2	7.1	7.1	7.2	6.9	7.0	7.2	7.2	7.2
3	6.6	6.5	6.6	7.2	7.1	7.1	7.2	7.1	7.1	7.2	7.0	7.1
4	6.7	6.6	6.7	7.1	7.1	7.1	7.1	6.9	7.0	7.2	7.1	7.2
5	6.7	6.7	6.7	7.2	7.1	7.1	7.0	6.9	7.0	7.2	7.1	7.1
6	6.7	6.6	6.7	7.1	7.0	7.1	7.1	6.9	7.0	7.2	7.1	7.1
7	6.9	6.6	6.7	7.1	7.0	7.1	7.1	7.0	7.1	7.2	7.1	7.1
8	6.9	6.8	6.8	7.1	7.0	7.1	7.1	7.0	7.0	7.2	7.1	7.1
9	6.9	6.8	6.8	7.1	7.1	7.1	7.1	6.9	7.0	7.2	7.1	7.1
10	6.9	6.8	6.8	7.2	7.1	7.1	7.0	6.8	6.9	7.2	7.1	7.2
11	6.9	6.8	6.9	7.2	7.1	7.1	6.8	6.8	6.8	7.2	7.1	7.2
12	7.0	6.9	6.9	7.1	7.0	7.1	7.0	6.8	6.9	7.2	7.1	7.2
13	6.9	6.9	6.9	7.1	7.1	7.1	7.2	7.0	7.1	---	---	---
14	7.0	6.9	7.0	7.2	7.1	7.1	7.1	7.0	7.1	7.1	7.0	7.1
15	7.0	6.9	7.0	7.2	7.1	7.1	7.2	7.0	7.1	7.1	7.0	7.1
16	7.0	6.9	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
17	7.1	7.0	7.0	7.2	7.1	7.1	7.2	7.0	7.1	7.1	7.0	7.0
18	7.1	6.9	7.0	7.1	7.1	7.1	7.2	7.1	7.2	7.0	7.0	7.0
19	7.0	6.8	6.9	7.1	7.1	7.1	7.3	7.1	7.2	7.0	6.9	7.0
20	6.9	6.8	6.9	7.2	7.1	7.1	7.2	7.2	7.2	7.0	6.9	7.0
21	7.0	6.8	6.9	7.2	7.0	7.1	7.3	7.1	7.2	---	---	---
22	6.9	6.8	6.9	7.2	7.1	7.1	7.2	7.1	7.1	7.1	6.9	6.9
23	6.9	6.9	6.9	7.2	7.1	7.2	7.3	7.1	7.2	7.2	7.1	7.1
24	6.9	6.8	6.9	7.3	7.2	7.2	7.2	7.1	7.1	7.1	7.0	7.0
25	6.9	6.8	6.9	7.3	7.1	7.2	7.2	7.1	7.2	7.2	7.1	7.2
26	6.9	6.8	6.9	7.3	7.1	7.3	7.3	7.2	7.2	7.2	7.1	7.2
27	7.1	6.9	7.0	7.3	7.0	7.2	7.2	7.2	7.2	7.3	7.2	7.2
28	---	---	---	7.2	7.1	7.1	7.2	7.2	7.2	7.3	7.1	7.2
29	7.2	7.1	7.1	7.2	7.1	7.1	7.2	7.1	7.2	7.2	7.1	7.1
30	7.2	7.1	7.1	7.1	7.0	7.0	7.2	7.0	7.1	7.2	7.1	7.2
31	7.2	7.1	7.1	---	---	---	7.2	7.1	7.1	7.3	7.1	7.2
MONTH	---	---	---	7.3	7.0	7.1	7.3	6.8	7.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.1	7.2	7.4	7.2	7.3	7.0	7.0	7.0	6.5	6.5	6.5
2	7.2	7.1	7.2	7.3	7.2	7.2	7.0	6.9	6.9	6.5	6.5	6.5
3	7.3	7.1	7.2	7.2	7.2	7.2	6.9	6.9	6.9	6.5	6.5	6.5
4	7.4	7.2	7.3	7.2	7.0	7.1	7.0	6.9	6.9	6.7	6.5	6.6
5	7.3	7.2	7.3	7.1	7.0	7.1	7.0	6.8	6.9	6.7	6.6	6.6
6	7.3	7.2	7.2	7.2	7.1	7.1	6.8	6.8	6.8	6.7	6.5	6.6
7	7.3	7.2	7.3	7.3	7.1	7.2	6.8	6.7	6.7	6.7	6.4	6.5
8	---	---	---	7.3	7.1	7.2	---	---	---	6.5	6.3	6.4
9	---	---	---	7.2	7.1	7.1	6.5	6.4	6.5	6.5	6.2	6.4
10	---	---	---	7.2	7.1	7.2	6.5	6.4	6.4	6.4	6.2	6.3
11	---	---	---	7.2	7.1	7.1	6.5	6.3	6.4	6.6	6.4	6.5
12	---	---	---	7.3	7.1	7.2	6.4	6.3	6.3	6.7	6.5	6.6
13	---	---	---	7.3	7.2	7.2	6.4	6.3	6.3	6.7	6.5	6.6
14	7.3	7.2	7.2	7.3	7.1	7.2	6.3	6.3	6.3	6.7	6.5	6.6
15	7.2	7.1	7.1	7.2	7.0	7.1	6.4	6.3	6.3	6.7	6.4	6.6
16	7.2	7.1	7.2	7.1	7.0	7.1	6.4	6.3	6.3	6.6	6.4	6.5
17	7.3	7.1	7.2	7.0	7.0	7.0	6.4	6.3	6.4	6.6	6.5	6.5
18	7.3	7.2	7.2	7.1	7.0	7.0	6.4	6.3	6.4	6.5	6.5	6.5
19	7.3	7.2	7.2	7.2	7.1	7.1	6.4	6.4	6.4	6.6	6.5	6.5
20	7.3	7.1	7.2	7.2	7.0	7.1	6.4	6.4	6.4	6.6	6.5	6.6
21	7.3	7.2	7.2	---	---	---	6.4	6.4	6.4	6.6	6.5	6.6
22	7.4	7.2	7.3	7.1	7.0	7.0	6.4	6.4	6.4	6.7	6.6	6.6
23	7.3	7.2	7.2	7.0	6.9	7.0	6.4	6.4	6.4	6.8	6.5	6.6
24	7.3	7.2	7.2	7.0	6.9	6.9	6.4	6.4	6.4	6.8	6.5	6.6
25	7.3	7.2	7.2	7.1	6.9	7.0	6.4	6.4	6.4	6.7	6.6	6.6
26	7.3	7.2	7.2	7.0	6.9	6.9	6.5	6.4	6.5	6.7	6.7	6.7
27	7.3	7.2	7.2	7.0	7.0	7.0	6.5	6.4	6.5	6.8	6.6	6.7
28	7.3	7.2	7.3	7.1	7.0	7.0	6.5	6.5	6.5	6.8	6.6	6.7
29	---	---	---	7.1	7.0	7.1	6.5	6.5	6.5	6.7	6.6	6.7
30	---	---	---	7.1	7.0	7.1	6.5	6.5	6.5	6.7	6.6	6.6
31	---	---	---	7.1	7.0	7.0	---	---	---	6.8	6.6	6.7
MONTH	---	---	---	---	---	---	---	---	---	6.8	6.2	6.6

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

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.6	6.5	6.6	6.6	6.5	6.6	6.6	6.5	6.6	6.7	6.6	6.6
2	6.7	6.5	6.6	6.7	6.6	6.6	6.6	6.5	6.6	6.7	6.5	6.6
3	6.7	6.6	6.6	6.6	6.5	6.6	6.6	6.5	6.6	6.6	6.5	6.6
4	6.7	6.6	6.6	6.7	6.6	6.6	6.7	6.5	6.6	6.6	6.5	6.5
5	6.7	6.6	6.6	6.8	6.6	6.7	6.7	6.6	6.6	6.7	6.6	6.6
6	6.7	6.5	6.6	6.8	6.6	6.6	6.7	6.6	6.7	6.8	6.7	6.7
7	6.6	6.4	6.5	6.7	6.6	6.6	6.8	6.7	6.8	6.8	6.6	6.7
8	6.5	6.5	6.5	6.8	6.7	6.7	6.8	6.7	6.8	6.7	6.5	6.6
9	6.5	6.3	6.4	6.8	6.6	6.7	7.0	6.8	6.9	6.7	6.5	6.6
10	6.3	6.3	6.3	6.8	6.7	6.7	7.0	6.9	7.0	6.6	6.5	6.6
11	6.4	6.3	6.4	6.8	6.5	6.6	---	---	---	6.6	6.5	6.5
12	6.5	6.4	6.5	6.6	6.5	6.6	---	---	---	6.6	6.5	6.6
13	6.6	6.5	6.5	6.6	6.6	6.6	---	---	---	6.7	6.6	6.6
14	6.7	6.5	6.6	6.6	6.5	6.6	---	---	---	6.7	6.6	6.6
15	6.7	6.5	6.6	6.6	6.6	6.6	7.2	7.0	7.1	6.8	6.7	6.7
16	6.5	6.4	6.4	6.6	6.4	6.5	7.1	6.9	7.0	6.8	6.7	6.8
17	6.4	6.2	6.3	6.5	6.4	6.5	7.1	6.6	6.8	6.8	6.6	6.7
18	6.2	6.1	6.2	6.5	6.4	6.5	7.0	6.7	6.7	6.7	6.5	6.6
19	6.1	6.1	6.1	6.5	6.4	6.4	6.9	6.6	6.7	---	---	---
20	6.1	6.0	6.0	6.5	6.4	6.4	6.9	6.6	6.7	7.2	7.1	7.1
21	6.1	6.0	6.0	6.5	6.3	6.4	6.9	6.7	6.7	7.2	7.0	7.0
22	6.1	6.1	6.1	6.4	6.3	6.3	6.7	6.6	6.6	7.1	6.9	7.0
23	6.2	6.1	6.1	6.3	6.2	6.2	6.7	6.6	6.7	7.0	6.9	6.9
24	6.2	6.1	6.2	6.5	6.2	6.4	6.8	6.6	6.7	7.0	6.7	6.9
25	6.2	6.2	6.2	6.5	6.3	6.4	6.8	6.6	6.7	7.1	6.7	6.8
26	6.3	6.2	6.3	6.4	6.3	6.4	6.8	6.5	6.6	7.1	6.9	7.0
27	6.3	6.2	6.3	6.9	6.2	6.5	6.7	6.6	6.6	7.0	6.9	6.9
28	6.3	6.3	6.3	6.8	6.4	6.5	6.7	6.5	6.6	7.1	6.9	7.0
29	6.4	6.3	6.4	6.6	6.5	6.6	6.7	6.7	6.7	7.1	7.0	7.0
30	6.6	6.4	6.5	6.6	6.5	6.5	6.7	6.6	6.7	7.2	7.0	7.1
31	---	---	---	6.6	6.3	6.5	6.7	6.6	6.6	---	---	---
MONTH	6.7	6.0	6.4	6.9	6.2	6.5	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.1	20.7	20.9	17.6	16.7	17.1	10.2	9.5	9.9	3.6	3.2	3.5
2	21.9	20.6	21.0	17.1	16.6	16.8	9.6	9.1	9.4	3.7	3.2	3.5
3	23.1	20.7	21.1	17.1	16.3	16.6	9.2	7.8	8.4	3.9	3.2	3.4
4	22.7	20.8	21.6	17.0	16.4	16.6	7.9	7.4	7.7	3.8	3.1	3.5
5	22.9	21.5	22.1	16.5	15.8	16.2	7.8	7.3	7.5	3.6	3.1	3.3
6	23.6	22.0	22.6	16.1	15.2	15.5	7.7	7.2	7.5	3.3	2.8	3.0
7	23.0	22.1	22.6	15.9	15.4	15.6	8.1	7.4	7.7	3.4	2.7	3.0
8	22.7	20.5	21.3	17.1	15.7	16.0	8.1	7.4	7.7	3.7	3.1	3.4
9	20.8	19.8	20.2	17.1	16.0	16.6	7.9	6.7	7.4	4.0	3.4	3.6
10	20.0	19.0	19.4	17.1	16.6	16.9	6.7	6.3	6.6	3.8	3.1	3.4
11	20.3	18.8	19.2	17.1	16.3	16.6	6.5	6.3	6.3	4.4	3.1	3.7
12	20.3	19.1	19.6	16.3	15.6	15.8	7.4	6.4	6.9	4.9	3.9	4.4
13	20.0	19.2	19.6	16.4	15.4	15.7	7.6	6.9	7.2	---	---	---
14	20.0	18.8	19.2	15.8	15.4	15.7	9.2	7.6	8.4	5.6	4.8	5.1
15	19.7	18.4	18.8	15.5	14.9	15.2	8.8	8.3	8.5	6.6	5.5	6.0
16	19.9	18.7	19.0	15.0	14.3	14.5	8.9	8.3	8.5	7.0	6.0	6.3
17	19.8	18.9	19.3	14.8	14.3	14.6	10.1	8.9	9.4	7.0	6.3	6.5
18	19.8	19.3	19.5	14.6	13.7	14.1	9.4	8.6	8.9	6.8	6.6	6.6
19	20.2	19.3	19.6	13.9	12.9	13.5	8.9	8.3	8.6	8.0	6.7	7.1
20	20.4	19.1	19.4	12.9	12.3	12.7	8.5	7.5	8.0	8.0	7.7	7.8
21	20.8	19.3	19.7	12.3	11.1	11.8	8.1	7.3	7.6	8.1	7.6	7.9
22	20.1	19.4	19.6	11.1	10.2	10.6	7.6	7.0	7.3	7.7	7.0	7.4
23	19.7	18.9	19.2	10.4	9.9	10.1	7.0	6.0	6.5	7.6	6.8	7.1
24	19.2	18.3	18.8	10.3	9.8	10.0	6.1	5.4	5.9	7.9	6.4	6.9
25	19.5	18.6	19.0	10.1	9.3	9.8	5.5	4.8	5.1	7.1	6.6	6.9
26	19.2	18.5	18.9	11.1	9.8	10.6	4.9	4.2	4.6	6.7	5.9	6.3
27	19.2	18.5	18.8	11.0	10.3	10.7	4.9	4.6	4.8	6.7	6.0	6.3
28	---	---	---	11.2	10.4	10.8	5.2	4.7	4.9	6.6	5.9	6.4
29	18.7	17.8	18.3	10.9	10.4	10.6	4.7	4.3	4.5	6.0	5.7	5.8
30	18.3	17.5	17.8	10.6	10.1	10.3	4.8	4.0	4.5	6.9	5.7	6.1
31	17.5	17.1	17.3	---	---	---	4.1	3.4	3.8	7.8	6.6	7.1
MONTH	---	---	---	17.6	9.3	13.9	10.2	3.4	7.1	---	---	---

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

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.5	6.9	7.1	10.5	9.4	9.8	12.4	11.9	12.1	19.6	17.7	18.4
2	7.3	6.8	7.1	10.7	9.5	10.0	12.4	11.6	12.0	20.1	18.3	18.9
3	7.3	6.5	6.8	10.3	9.8	10.1	12.6	12.2	12.4	20.5	19.0	19.5
4	7.0	6.4	6.7	10.5	10.1	10.4	12.6	11.9	12.3	21.9	19.8	20.4
5	7.8	6.9	7.3	10.6	10.2	10.4	13.0	11.7	12.2	21.9	20.0	20.8
6	8.2	7.1	7.5	10.3	9.1	9.6	13.3	12.1	12.6	21.5	20.5	20.9
7	8.1	7.1	7.7	9.4	8.1	8.8	14.5	13.0	13.7	20.9	19.6	20.1
8	---	---	---	10.0	8.7	9.1	---	---	---	21.7	20.0	20.6
9	---	---	---	10.3	9.0	9.5	17.6	15.7	16.5	22.0	20.9	21.2
10	---	---	---	10.1	9.1	9.4	18.5	17.0	17.7	23.0	20.7	21.2
11	---	---	---	10.3	8.8	9.5	18.4	17.5	18.0	23.3	20.9	21.7
12	---	---	---	10.5	9.3	9.8	18.9	18.0	18.4	23.4	21.3	22.1
13	---	---	---	12.4	10.2	11.3	19.0	18.5	18.6	22.9	21.6	22.1
14	9.1	8.6	8.7	12.2	11.2	11.7	18.9	18.2	18.5	23.2	21.3	21.9
15	10.3	9.1	9.8	11.9	11.5	11.7	18.6	17.9	18.2	22.4	21.6	21.9
16	11.1	9.8	10.3	12.6	11.6	12.1	18.0	17.7	17.9	21.9	21.1	21.5
17	10.6	10.1	10.4	13.5	12.1	12.7	17.7	15.8	16.9	21.5	20.8	21.1
18	10.3	9.4	9.8	12.9	12.5	12.7	15.8	14.1	14.7	22.5	20.6	21.1
19	9.8	8.9	9.3	13.2	11.9	12.5	14.7	13.9	14.1	22.4	21.1	21.5
20	10.5	8.8	9.6	12.5	10.8	11.8	14.8	14.0	14.3	23.2	21.8	22.3
21	11.3	9.7	10.5	---	---	---	15.8	14.3	15.0	22.9	21.9	22.4
22	10.6	9.2	9.8	12.5	11.7	12.1	17.2	15.5	16.2	23.6	22.0	22.7
23	10.2	8.9	9.3	13.1	11.8	12.3	18.1	16.6	17.3	23.8	22.8	23.1
24	9.2	8.6	8.8	13.4	12.3	12.7	18.9	17.5	18.1	25.7	22.9	23.4
25	9.6	8.5	8.9	12.6	11.9	12.3	18.6	17.5	18.0	24.6	22.9	23.7
26	10.9	9.6	10.0	12.5	11.7	11.9	17.5	16.9	17.3	24.5	23.7	24.2
27	10.6	9.6	10.0	12.2	11.3	11.7	18.2	17.0	17.6	24.8	23.9	24.4
28	10.1	9.5	9.9	11.9	11.1	11.5	18.4	17.5	17.8	24.5	23.6	23.9
29	---	---	---	11.8	11.3	11.5	18.3	17.3	17.7	23.8	23.3	23.5
30	---	---	---	13.0	11.6	12.1	18.2	17.0	17.6	24.2	23.2	23.5
31	---	---	---	12.8	12.2	12.5	---	---	---	24.2	23.0	23.3
MONTH	---	---	---	---	---	---	---	---	---	25.7	17.7	21.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.3	22.9	23.1	28.7	27.5	28.0	26.9	25.5	26.0	28.0	27.4	27.6
2	24.0	22.7	23.2	28.0	27.0	27.4	27.1	25.7	26.2	28.7	27.2	27.7
3	24.7	23.2	23.8	27.9	26.7	27.0	28.4	25.9	26.5	28.2	27.4	27.7
4	24.4	23.7	24.0	28.0	26.7	27.3	27.8	25.8	26.6	28.2	27.5	27.8
5	25.3	23.7	24.1	28.9	27.2	27.8	28.8	26.1	26.7	27.9	27.2	27.5
6	24.4	23.6	24.0	28.9	27.6	27.9	29.9	26.3	26.9	28.4	27.4	27.7
7	24.9	24.2	24.5	28.3	26.9	27.4	29.2	27.1	27.8	28.3	27.1	27.6
8	24.6	24.1	24.4	27.5	26.7	27.0	29.5	28.0	28.5	28.1	27.2	27.6
9	24.7	23.8	24.2	27.9	26.7	27.0	29.9	28.6	29.1	28.3	27.3	27.6
10	24.7	23.6	24.1	29.6	27.5	28.0	30.1	29.0	29.5	28.9	27.1	27.6
11	25.3	24.5	24.8	29.2	28.0	28.5	---	---	---	28.0	27.2	27.5
12	25.3	24.6	25.0	28.8	27.8	28.3	---	---	---	28.1	27.1	27.5
13	25.3	24.7	24.9	28.4	27.2	27.9	---	---	---	27.2	26.9	27.1
14	25.1	24.8	25.0	27.5	26.7	27.1	---	---	---	27.0	25.7	26.6
15	24.8	24.1	24.5	27.5	26.5	27.0	30.0	28.7	29.2	25.7	24.5	25.1
16	24.5	23.8	24.1	28.1	26.8	27.1	29.5	28.8	29.0	24.6	23.6	24.1
17	24.1	23.7	23.9	28.7	26.4	27.1	30.7	28.9	29.7	25.0	23.7	24.1
18	24.2	23.4	23.8	27.3	26.5	26.8	29.7	29.0	29.3	25.0	24.2	24.3
19	24.2	23.5	23.8	26.9	26.5	26.7	29.7	28.6	29.0	25.3	24.4	24.7
20	24.4	23.5	23.9	27.4	25.9	26.5	28.9	28.1	28.5	25.2	24.9	25.0
21	24.7	23.9	24.3	27.2	25.8	26.4	29.2	28.0	28.3	26.0	24.7	24.9
22	25.2	24.3	24.8	27.9	26.2	26.8	29.4	28.3	28.6	25.7	24.5	24.8
23	25.2	24.8	24.9	28.3	27.0	27.6	29.6	28.3	28.8	26.2	24.7	25.0
24	25.5	24.9	25.2	28.3	27.1	27.7	28.7	28.1	28.3	25.4	24.8	25.0
25	25.8	25.0	25.3	28.9	27.7	28.1	28.5	27.5	27.9	25.2	24.6	24.8
26	26.7	24.9	25.3	28.0	27.5	27.7	28.1	27.3	27.6	24.9	23.9	24.2
27	26.0	25.3	25.5	27.5	26.7	27.1	28.9	27.0	27.8	24.6	23.2	23.8
28	27.0	25.9	26.3	27.0	26.2	26.6	29.2	27.5	28.0	23.9	23.1	23.5
29	27.8	26.5	27.0	26.5	26.2	26.3	28.4	27.9	28.1	23.5	22.6	23.0
30	29.0	27.2	27.8	26.2	25.4	25.8	29.1	27.6	27.9	22.6	21.3	21.7
31	---	---	---	27.0	25.2	25.7	28.9	27.5	28.1	---	---	---
MONTH	29.0	22.7	24.6	29.6	25.2	27.2	---	---	---	28.9	21.3	25.8

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

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.1	20.6	20.8	17.3	16.6	16.9	10.2	9.6	9.9	3.8	3.3	3.6
2	20.9	20.5	20.7	16.9	16.2	16.6	9.6	9.1	9.5	3.9	3.5	3.7
3	20.9	20.5	20.7	16.8	16.0	16.4	9.2	7.8	8.5	3.8	3.2	3.6
4	21.8	20.6	21.0	16.7	16.3	16.4	7.9	7.5	7.7	4.0	3.2	3.6
5	22.3	21.3	21.6	16.4	15.7	16.1	7.8	7.3	7.5	3.7	3.2	3.4
6	22.4	21.9	22.0	15.7	15.0	15.4	7.8	7.2	7.5	3.4	2.9	3.1
7	22.8	22.0	22.3	15.7	15.3	15.5	7.9	7.4	7.6	3.6	2.8	3.1
8	22.6	20.4	21.2	15.9	15.6	15.7	7.9	7.4	7.7	3.8	3.2	3.5
9	20.7	19.6	20.0	16.7	15.9	16.1	7.9	6.8	7.4	4.1	3.5	3.8
10	19.7	18.6	19.0	17.1	16.6	16.7	6.8	6.4	6.7	3.9	3.2	3.5
11	19.3	18.5	18.8	17.0	16.1	16.5	6.5	6.2	6.4	4.1	3.3	3.8
12	19.8	19.0	19.3	16.2	15.4	15.7	7.3	6.4	6.9	4.9	4.1	4.4
13	19.7	18.9	19.3	15.6	15.2	15.4	7.7	6.9	7.3	---	---	---
14	19.0	18.6	18.9	15.7	15.4	15.6	8.8	7.6	8.3	5.3	4.9	5.1
15	18.9	18.2	18.5	15.4	14.8	15.0	8.8	8.3	8.6	6.0	5.3	5.7
16	18.8	18.5	18.6	14.9	14.1	14.4	8.9	8.4	8.5	6.5	5.8	6.2
17	19.1	18.6	18.7	14.6	14.2	14.5	10.1	8.9	9.5	6.7	6.3	6.5
18	19.3	19.0	19.2	14.5	13.5	13.9	9.5	8.6	8.8	6.8	6.6	6.7
19	19.5	19.1	19.2	13.9	12.9	13.4	9.0	8.4	8.6	7.5	6.7	7.0
20	19.3	18.9	19.1	12.9	12.2	12.6	8.6	7.6	8.0	8.1	7.5	7.8
21	19.8	19.1	19.3	12.2	10.9	11.7	8.0	7.2	7.6	8.2	7.6	7.9
22	19.7	19.2	19.4	10.9	10.1	10.5	7.6	7.1	7.4	7.7	7.0	7.4
23	19.6	18.8	19.1	10.2	9.7	10.0	7.1	6.1	6.5	7.7	6.8	7.1
24	18.9	18.2	18.4	10.2	9.5	9.9	6.2	5.5	5.9	7.2	6.4	6.7
25	19.1	18.4	18.7	10.0	9.2	9.7	5.6	4.8	5.1	7.1	6.6	6.9
26	19.0	18.5	18.7	11.0	9.6	10.5	5.0	4.3	4.7	6.6	5.9	6.2
27	19.0	18.5	18.7	10.9	10.2	10.6	5.0	4.7	4.9	6.7	6.0	6.3
28	---	---	---	10.9	10.4	10.6	5.3	4.8	5.0	6.7	5.9	6.4
29	18.6	17.7	18.1	10.8	10.4	10.7	4.9	4.2	4.5	5.9	5.8	5.8
30	17.9	16.9	17.5	10.7	10.1	10.3	4.9	4.1	4.6	7.0	5.7	6.1
31	17.5	17.0	17.2	---	---	---	4.2	3.5	3.9	7.7	6.6	7.1
MONTH	---	---	---	17.3	9.2	13.8	10.2	3.5	7.1	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	6.9	7.1	10.0	9.3	9.6	12.3	11.8	12.1	18.9	17.6	18.1
2	7.2	6.8	7.1	10.3	9.5	9.8	12.3	11.6	11.9	19.1	18.2	18.5
3	7.1	6.4	6.8	10.3	9.8	10.0	12.6	12.2	12.4	19.7	18.9	19.2
4	7.0	6.5	6.8	10.5	9.8	10.3	12.5	11.9	12.3	20.6	19.6	20.0
5	7.6	6.9	7.2	10.6	10.2	10.4	12.7	11.7	12.1	20.6	20.1	20.3
6	7.9	7.1	7.4	10.3	9.1	9.5	13.0	12.1	12.5	21.0	20.3	20.8
7	8.1	7.1	7.6	9.4	8.1	8.7	14.4	13.0	13.6	20.7	19.6	20.1
8	---	---	---	9.3	8.5	8.8	---	---	---	21.0	20.0	20.3
9	---	---	---	9.6	8.9	9.2	17.3	15.6	16.4	21.2	20.6	21.0
10	---	---	---	9.4	9.1	9.2	18.3	17.0	17.6	21.2	20.6	20.9
11	---	---	---	9.8	8.8	9.3	18.3	17.5	17.9	22.2	20.9	21.2
12	---	---	---	10.4	9.2	9.6	18.7	18.0	18.3	22.1	21.2	21.5
13	---	---	---	12.2	10.2	11.0	18.8	18.5	18.6	22.2	21.6	21.9
14	9.1	8.6	8.8	11.9	11.1	11.6	18.7	18.2	18.4	22.3	21.3	21.7
15	10.0	9.1	9.7	11.9	11.4	11.7	18.4	17.9	18.2	22.1	21.6	21.8
16	10.6	9.8	10.1	12.6	11.6	12.0	18.0	17.7	17.9	21.9	21.2	21.5
17	10.5	10.1	10.4	13.0	12.0	12.5	17.7	15.8	16.9	21.6	20.9	21.2
18	10.4	9.3	9.8	12.9	12.4	12.7	15.8	14.0	14.7	21.1	20.6	20.8
19	9.5	8.8	9.2	12.7	11.9	12.2	14.4	13.9	14.1	21.3	21.0	21.2
20	10.2	8.8	9.4	12.5	10.9	11.7	14.6	14.0	14.3	22.3	21.3	21.9
21	11.0	9.7	10.3	---	---	---	15.6	14.3	15.0	22.7	22.0	22.3
22	10.7	9.3	9.8	12.4	11.7	12.0	16.9	15.5	16.1	23.2	22.0	22.4
23	9.4	8.1	9.0	12.6	11.7	12.1	18.0	16.6	17.2	23.2	22.2	22.8
24	8.9	8.5	8.7	13.1	12.2	12.6	18.7	17.5	18.1	23.3	22.9	23.0
25	9.4	8.4	8.8	12.6	11.9	12.3	18.7	17.4	18.0	24.5	22.9	23.4
26	10.3	9.4	9.8	12.2	11.6	11.8	17.5	16.7	17.2	24.5	23.7	24.2
27	10.2	9.6	9.7	12.0	11.0	11.6	18.0	16.9	17.5	24.7	23.9	24.3
28	10.0	9.5	9.8	11.7	10.9	11.4	18.0	17.4	17.7	24.7	23.7	24.0
29	---	---	---	11.7	11.3	11.4	17.9	17.3	17.6	23.8	23.4	23.6
30	---	---	---	12.6	11.6	12.0	17.8	16.9	17.4	23.7	23.2	23.4
31	---	---	---	12.7	12.2	12.4	---	---	---	23.7	22.8	23.2
MONTH	---	---	---	---	---	---	---	---	---	24.7	17.6	21.6

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

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.4	23.0	23.2	28.1	27.4	27.7	26.0	25.5	25.7	27.7	26.4	27.0
2	23.5	22.8	23.2	28.0	26.8	27.4	26.1	25.7	25.9	27.9	27.1	27.4
3	24.2	23.2	23.7	27.2	26.6	26.9	26.1	25.8	26.0	27.8	27.3	27.5
4	24.4	23.8	24.1	27.7	26.8	27.0	26.8	25.8	26.2	27.7	27.4	27.5
5	24.2	23.8	23.9	28.1	27.2	27.5	26.8	26.1	26.4	27.7	26.6	27.2
6	24.4	23.7	24.0	28.0	27.6	27.8	27.0	26.3	26.6	27.9	27.2	27.5
7	24.7	24.3	24.5	27.7	26.9	27.3	27.9	27.0	27.4	27.9	27.0	27.3
8	24.8	24.2	24.5	27.5	26.8	27.1	28.8	27.8	28.3	27.7	27.1	27.3
9	24.5	23.9	24.2	27.2	26.6	26.9	29.4	28.6	28.9	27.6	27.3	27.4
10	24.8	23.6	24.1	28.1	27.2	27.7	29.8	29.0	29.4	27.4	27.0	27.1
11	25.1	24.5	24.8	28.9	28.0	28.4	---	---	---	27.9	27.1	27.4
12	25.0	24.6	24.8	28.7	27.9	28.3	---	---	---	27.7	26.9	27.2
13	25.1	24.6	24.8	28.5	27.4	28.0	---	---	---	27.2	26.8	27.0
14	25.1	24.7	24.9	27.4	26.7	27.1	---	---	---	27.0	25.8	26.6
15	24.7	24.1	24.5	27.3	26.6	27.0	29.1	27.9	28.8	25.8	24.5	25.0
16	24.3	23.7	24.0	27.2	26.8	27.0	29.1	28.6	28.8	24.6	23.6	24.1
17	24.1	23.6	23.8	27.5	26.5	26.7	29.1	27.6	28.4	24.2	23.4	23.7
18	24.0	23.3	23.7	27.0	26.5	26.7	28.7	27.2	27.4	24.4	24.0	24.1
19	24.0	23.4	23.7	26.9	26.6	26.7	28.2	27.2	27.3	24.9	23.5	24.2
20	24.2	23.5	23.8	27.0	26.0	26.4	28.3	27.1	27.4	25.1	24.7	24.9
21	24.6	23.8	24.2	26.9	25.8	26.2	28.4	27.1	27.9	25.0	24.6	24.7
22	25.1	24.3	24.7	26.8	26.2	26.4	28.6	28.3	28.4	24.9	24.5	24.7
23	25.1	24.7	24.9	27.1	26.8	26.9	28.7	28.1	28.3	24.8	24.6	24.7
24	25.3	24.9	25.1	28.2	27.0	27.6	28.6	28.0	28.2	25.2	23.7	24.7
25	25.5	24.9	25.2	28.6	27.8	28.1	28.3	27.5	27.8	25.0	23.6	24.1
26	25.5	24.8	25.1	28.1	27.5	27.8	27.8	27.1	27.4	24.9	23.7	24.2
27	25.8	25.2	25.4	27.6	26.7	27.1	27.5	26.8	27.1	23.9	23.2	23.5
28	26.6	25.8	26.1	26.9	26.2	26.5	27.6	26.3	27.0	23.8	23.0	23.4
29	27.5	26.4	26.7	26.5	26.1	26.3	26.5	25.9	26.1	23.4	22.4	22.9
30	28.0	27.1	27.5	26.2	25.5	25.8	27.0	25.9	26.0	22.6	21.2	21.6
31	---	---	---	25.6	25.1	25.4	27.5	26.0	26.2	---	---	---
MONTH	28.0	22.8	24.6	28.9	25.1	27.1	---	---	---	27.9	21.2	25.5

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	5.9	6.1	7.2	6.8	6.9	9.4	8.9	9.1	11.7	11.5	11.6
2	6.4	5.8	6.1	7.3	6.9	7.0	9.6	9.2	9.4	11.7	11.3	11.5
3	6.1	5.4	5.8	7.3	6.8	7.0	9.9	9.4	9.7	11.7	11.3	11.5
4	5.7	5.2	5.4	7.2	6.8	7.0	9.8	9.6	9.7	11.8	11.5	11.6
5	5.7	5.2	5.5	7.7	7.0	7.3	9.7	9.5	9.6	12.1	11.7	11.9
6	5.9	5.4	5.6	7.6	7.2	7.4	9.8	9.5	9.6	12.3	12.0	12.1
7	6.0	5.4	5.7	7.4	7.2	7.3	9.8	9.4	9.5	12.3	12.1	12.2
8	6.6	5.5	6.1	7.3	6.5	6.9	9.7	9.5	9.6	12.1	11.9	12.0
9	6.4	5.5	5.9	6.8	6.6	6.7	10.2	9.6	9.9	11.9	11.7	11.8
10	6.5	5.9	6.1	6.9	6.5	6.7	10.7	10.2	10.4	12.0	11.6	11.7
11	6.3	5.7	6.0	7.3	6.6	6.9	10.8	10.6	10.7	11.9	11.4	11.6
12	6.3	5.4	5.8	7.4	7.0	7.2	10.7	10.6	10.7	11.5	11.0	11.2
13	7.1	6.1	6.3	7.2	6.8	7.0	10.7	10.2	10.4	---	---	---
14	6.6	6.4	6.5	6.9	6.6	6.7	10.5	10.2	10.3	11.3	11.0	11.1
15	7.0	6.4	6.5	7.0	6.5	6.7	10.3	10.1	10.2	11.2	10.7	11.0
16	7.0	6.5	6.8	7.2	6.8	7.0	10.4	10.2	10.3	11.3	10.7	11.0
17	7.1	6.5	6.9	7.2	6.6	6.9	10.6	10.1	10.3	11.0	10.3	10.5
18	7.1	6.4	6.8	7.4	6.6	7.0	10.7	10.2	10.4	10.4	10.1	10.3
19	7.0	6.4	6.7	7.6	7.0	7.2	10.5	10.1	10.3	10.5	10.0	10.2
20	7.0	6.2	6.5	8.1	7.5	7.7	10.4	10.2	10.3	10.1	9.8	10.0
21	6.8	5.8	6.2	8.9	7.8	8.4	10.5	10.2	10.3	10.4	9.7	10.0
22	6.5	6.0	6.2	9.4	8.9	9.1	10.5	10.2	10.4	10.5	9.8	10.2
23	6.8	6.3	6.5	9.4	9.0	9.2	10.8	10.4	10.6	10.8	9.8	10.2
24	6.8	6.3	6.4	9.4	9.1	9.2	10.9	10.5	10.6	10.5	10.0	10.2
25	7.0	6.4	6.6	9.9	9.2	9.4	11.3	10.9	11.1	10.8	10.1	10.4
26	7.2	6.6	6.9	9.7	8.9	9.2	11.3	11.0	11.1	11.2	10.4	10.7
27	7.2	6.7	7.0	9.4	8.6	9.1	11.2	10.9	11.0	11.1	10.8	10.9
28	---	---	---	9.0	8.8	8.9	11.3	10.9	11.1	11.1	10.5	10.8
29	7.1	6.6	6.8	8.9	8.7	8.8	11.7	11.2	11.4	10.9	10.6	10.7
30	7.2	6.5	6.8	9.2	8.9	9.1	11.4	11.3	11.3	11.2	10.7	10.9
31	7.1	6.7	6.8	---	---	---	12.1	11.2	11.5	11.1	10.7	10.9
MONTH	---	---	---	9.9	6.5	7.7	12.1	8.9	10.3	---	---	---

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

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.0	10.6	10.8	9.0	8.2	8.5	9.2	8.8	9.0	7.5	6.7	7.0
2	11.0	10.8	10.9	8.8	8.3	8.5	9.3	8.6	8.8	7.6	6.9	7.2
3	10.9	10.6	10.7	8.6	8.1	8.3	8.7	8.4	8.6	7.4	6.9	7.1
4	11.0	10.5	10.7	8.4	7.5	7.9	8.9	8.4	8.6	7.2	6.6	6.9
5	10.7	10.3	10.5	7.8	7.4	7.6	9.0	8.3	8.6	7.2	6.6	6.9
6	10.5	10.1	10.4	8.4	7.6	7.9	8.8	8.2	8.3	7.6	6.6	7.1
7	10.7	10.0	10.3	8.5	7.7	8.3	8.3	7.8	8.0	7.2	6.8	6.9
8	---	---	---	8.6	8.2	8.3	---	---	---	7.3	6.6	6.9
9	---	---	---	8.6	8.3	8.4	6.7	6.1	6.5	7.0	6.2	6.6
10	---	---	---	8.6	8.2	8.4	6.2	5.6	5.8	7.2	6.3	6.5
11	---	---	---	8.6	8.2	8.3	5.6	4.8	5.2	6.8	6.3	6.5
12	---	---	---	8.7	8.1	8.4	5.2	4.7	5.0	6.8	6.4	6.6
13	---	---	---	9.0	8.3	8.6	5.1	4.8	5.0	6.8	6.1	6.4
14	9.8	9.4	9.6	8.8	8.4	8.6	5.1	4.7	4.9	6.8	5.9	6.4
15	9.6	8.9	9.2	8.6	7.8	8.2	5.3	4.8	5.1	6.7	5.7	6.1
16	9.4	8.9	9.2	8.1	7.7	7.9	5.2	4.8	5.0	6.3	5.5	5.8
17	9.4	9.0	9.2	7.9	7.6	7.7	5.4	4.8	5.0	5.9	5.4	5.6
18	9.2	8.9	9.1	8.0	7.4	7.7	5.2	4.9	5.0	5.8	5.1	5.3
19	9.9	9.1	9.3	8.4	7.8	8.1	6.0	5.2	5.7	5.6	5.0	5.2
20	9.8	9.2	9.4	8.8	7.9	8.2	6.5	5.9	6.2	6.0	5.3	5.6
21	9.2	8.8	9.0	---	---	---	6.6	6.2	6.4	5.8	5.3	5.6
22	9.6	8.8	9.3	8.3	8.0	8.1	6.8	6.2	6.4	5.9	5.6	5.7
23	9.0	8.3	8.7	8.5	8.1	8.3	6.6	6.2	6.4	5.7	5.2	5.4
24	9.0	8.2	8.5	8.5	8.0	8.2	6.7	6.2	6.4	6.1	5.1	5.4
25	8.8	8.5	8.6	8.8	8.1	8.5	6.6	6.1	6.4	5.9	5.0	5.2
26	8.6	8.2	8.4	8.6	8.0	8.4	6.8	6.3	6.5	5.3	4.9	5.1
27	8.6	8.0	8.3	8.9	8.6	8.8	6.6	6.1	6.4	5.4	4.9	5.1
28	8.6	8.2	8.4	9.3	8.7	9.0	6.8	6.2	6.5	5.3	4.9	5.1
29	---	---	---	9.3	8.9	9.1	7.0	6.3	6.7	5.1	4.8	4.9
30	---	---	---	9.3	8.9	9.1	7.1	6.7	6.8	5.5	4.9	5.1
31	---	---	---	9.2	8.8	9.0	---	---	---	6.0	5.1	5.7
MONTH	---	---	---	---	---	---	---	---	---	7.6	4.8	6.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.2	5.8	6.0	6.3	5.5	5.9	6.7	5.6	6.0	4.5	3.8	4.1
2	6.8	6.1	6.3	6.6	5.7	6.0	6.5	5.5	5.9	4.8	3.5	4.0
3	7.2	6.6	6.9	6.1	5.2	5.7	6.6	5.5	5.8	4.7	3.9	4.1
4	7.3	6.8	7.0	6.5	5.4	5.8	6.4	5.4	5.8	4.7	3.6	4.0
5	7.3	6.7	7.0	6.9	5.9	6.2	6.7	5.4	5.8	4.3	3.5	3.7
6	7.2	6.6	6.8	7.3	5.7	6.1	7.5	5.4	5.9	4.7	3.4	3.8
7	6.8	6.6	6.7	7.1	5.5	5.9	6.3	5.6	5.9	4.6	3.4	3.8
8	6.9	6.5	6.6	6.5	5.6	5.9	6.1	5.6	5.8	5.3	3.6	4.0
9	6.6	5.9	6.3	6.4	5.6	5.9	6.0	5.6	5.8	5.2	3.9	4.5
10	5.9	5.5	5.7	7.9	5.8	6.2	5.9	5.4	5.6	5.7	4.0	4.4
11	6.0	5.5	5.7	6.0	5.5	5.8	---	---	---	5.1	3.9	4.5
12	6.4	5.9	6.1	6.4	5.4	5.8	---	---	---	5.7	4.5	4.9
13	6.7	6.2	6.3	6.1	5.6	5.8	---	---	---	5.2	4.4	4.8
14	7.0	6.1	6.4	6.2	5.7	5.9	---	---	---	5.8	4.8	5.1
15	6.8	6.2	6.5	6.4	5.8	6.0	5.8	5.0	5.2	6.2	5.6	5.8
16	6.2	5.6	5.8	6.8	5.9	6.1	5.5	4.5	5.0	6.8	5.5	6.0
17	5.7	5.1	5.3	7.1	5.9	6.3	6.5	4.3	5.2	6.0	5.2	5.6
18	5.1	4.6	4.9	6.4	5.0	5.9	4.8	3.5	3.9	6.2	4.7	5.5
19	4.6	4.0	4.1	5.6	4.1	4.9	4.2	3.6	3.8	6.5	5.4	6.0
20	4.1	4.0	4.0	6.6	4.4	5.2	4.3	3.6	3.9	6.1	5.1	5.4
21	4.1	3.9	4.0	6.9	4.2	5.2	4.4	3.3	3.7	7.0	5.0	5.4
22	4.1	3.9	4.0	6.9	4.2	5.1	4.4	3.6	4.0	6.3	5.2	5.7
23	5.0	3.9	4.2	6.8	4.3	5.4	4.6	3.6	3.9	6.7	5.0	5.9
24	4.4	3.9	4.1	6.3	3.4	4.8	4.2	3.2	3.8	6.2	5.3	5.8
25	4.8	4.2	4.3	6.0	3.9	5.3	4.6	3.6	4.0	6.5	5.2	5.6
26	5.0	4.2	4.4	6.2	4.0	5.3	4.8	3.5	4.1	6.5	5.2	5.9
27	4.6	4.2	4.3	6.5	3.8	5.7	4.8	3.7	4.2	6.3	5.6	6.0
28	4.9	4.4	4.6	6.2	5.7	5.9	5.0	3.9	4.4	6.8	5.8	6.2
29	5.4	4.8	5.0	6.0	5.6	5.7	4.6	3.8	4.2	6.8	5.9	6.3
30	6.4	5.2	5.7	6.2	5.6	5.9	4.6	3.4	3.8	7.2	6.1	6.5
31	---	---	---	6.8	5.6	5.9	4.8	3.6	4.2	---	---	---
MONTH	7.3	3.9	5.5	7.9	3.4	5.7	---	---	---	7.2	3.4	5.1

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

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	6.0	6.1	7.4	7.1	7.2	10.4	9.9	10.1	13.4	13.1	13.2
2	6.2	5.5	5.9	7.6	7.2	7.3	10.6	10.1	10.4	13.2	12.9	13.1
3	5.8	5.5	5.7	7.7	7.3	7.4	11.0	10.4	10.7	13.2	12.9	13.0
4	5.5	4.8	5.2	7.7	7.3	7.5	10.9	10.6	10.8	13.5	13.2	13.3
5	5.5	4.9	5.2	8.1	7.6	7.8	10.8	10.5	10.6	13.8	13.4	13.7
6	5.4	4.9	5.2	8.0	7.7	7.9	10.8	10.5	10.6	14.0	13.6	13.9
7	5.8	4.9	5.4	7.9	7.5	7.8	10.6	10.3	10.5	14.0	13.8	13.9
8	6.5	5.5	6.1	7.9	7.3	7.6	10.9	10.4	10.7	13.8	13.7	13.8
9	6.4	5.4	5.9	7.6	7.3	7.5	11.3	10.7	11.0	13.7	13.5	13.6
10	6.0	5.7	5.9	7.8	7.4	7.6	11.9	11.2	11.5	13.6	13.1	13.4
11	6.3	5.4	5.8	8.1	7.5	7.8	12.0	11.8	11.9	13.4	12.9	13.1
12	6.2	5.3	5.6	8.1	7.9	8.0	12.0	11.8	11.8	13.2	12.3	12.7
13	6.2	5.8	6.0	8.0	7.7	7.9	11.9	11.4	11.7	---	---	---
14	6.4	6.1	6.3	7.9	7.6	7.8	11.6	11.3	11.4	12.9	12.3	12.5
15	6.5	6.2	6.4	8.0	7.6	7.8	11.6	11.3	11.5	12.7	11.8	12.2
16	6.8	6.3	6.6	8.2	7.9	8.1	11.7	11.4	11.6	12.3	11.7	12.1
17	6.7	6.3	6.5	8.3	7.9	8.1	11.9	11.5	11.6	12.3	11.2	11.6
18	6.8	6.3	6.5	8.5	8.0	8.2	11.9	11.5	11.7	11.7	11.1	11.4
19	6.8	6.2	6.5	8.7	8.1	8.4	11.9	11.4	11.6	11.7	11.0	11.3
20	6.8	6.1	6.4	8.9	8.6	8.8	11.8	11.5	11.6	11.2	10.4	10.8
21	6.6	5.6	5.9	9.6	8.9	9.2	11.8	11.6	11.7	---	---	---
22	6.6	5.5	6.0	9.9	9.5	9.6	11.9	11.5	11.7	11.4	10.4	10.9
23	6.9	6.3	6.5	9.8	9.6	9.7	12.2	11.7	12.0	11.5	10.5	11.0
24	6.7	6.1	6.4	9.9	9.7	9.8	12.4	12.0	12.1	11.4	10.8	11.0
25	7.0	6.3	6.7	10.2	9.7	10.0	12.7	12.3	12.5	11.8	10.9	11.3
26	7.3	6.9	7.0	10.2	9.7	9.9	12.9	12.4	12.6	12.3	11.3	11.6
27	7.7	7.0	7.3	10.0	9.8	9.9	12.5	12.3	12.4	12.1	11.6	11.8
28	---	---	---	9.9	9.6	9.7	12.9	12.4	12.6	12.1	11.3	11.7
29	7.3	7.0	7.2	10.0	9.6	9.8	13.1	12.8	12.9	12.0	11.5	11.7
30	7.2	6.9	7.1	10.1	9.8	10.0	13.0	12.7	12.9	12.3	11.7	11.9
31	7.3	7.0	7.2	---	---	---	13.4	12.7	12.9	12.2	11.2	11.7
MONTH	---	---	---	10.2	7.1	8.5	13.4	9.9	11.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.0	11.2	11.6	9.5	8.9	9.2	10.0	9.7	9.8	7.5	7.0	7.2
2	11.9	11.5	11.7	9.5	9.1	9.2	9.9	9.3	9.5	7.4	6.9	7.1
3	11.8	11.2	11.5	9.4	9.0	9.2	9.6	9.3	9.4	7.3	6.7	6.9
4	11.8	11.1	11.4	9.5	8.3	8.8	9.9	9.4	9.5	7.2	6.5	6.8
5	11.5	10.7	11.1	8.8	8.3	8.5	9.9	9.1	9.4	7.1	6.6	6.8
6	11.3	10.7	10.9	9.3	8.6	8.8	9.6	9.2	9.4	7.9	6.5	7.1
7	11.2	10.5	10.8	9.5	8.7	9.2	9.5	8.9	9.1	7.4	6.8	6.9
8	---	---	---	9.5	9.1	9.3	---	---	---	7.1	6.3	6.8
9	---	---	---	9.5	9.3	9.4	8.1	7.6	7.8	7.1	6.3	6.6
10	---	---	---	9.6	9.3	9.4	7.6	7.0	7.2	6.8	6.3	6.5
11	---	---	---	9.6	9.3	9.4	7.1	6.5	6.8	6.8	6.1	6.4
12	---	---	---	9.7	9.3	9.4	6.7	6.4	6.6	6.9	6.4	6.7
13	---	---	---	10.1	9.6	9.8	6.6	6.2	6.4	6.7	5.9	6.3
14	10.3	9.7	9.9	9.8	9.5	9.7	6.4	6.1	6.3	7.0	5.9	6.4
15	9.9	9.2	9.5	9.7	9.0	9.4	6.6	6.2	6.4	6.6	5.7	6.2
16	9.6	9.1	9.3	9.2	8.8	9.1	6.5	6.1	6.3	6.4	5.6	6.0
17	9.6	9.0	9.3	9.0	8.7	8.9	6.5	6.0	6.3	6.5	5.6	6.0
18	9.7	9.1	9.3	9.4	8.6	8.9	6.4	6.1	6.2	5.9	5.3	5.6
19	10.0	9.5	9.7	9.8	9.0	9.2	6.8	6.3	6.6	5.7	5.2	5.4
20	10.0	9.5	9.7	9.9	9.1	9.5	7.1	6.8	7.0	5.7	4.9	5.4
21	9.8	9.0	9.3	---	---	---	7.2	7.0	7.1	6.1	5.3	5.7
22	9.8	9.0	9.4	9.4	9.2	9.3	7.1	6.8	6.9	6.2	5.5	5.9
23	9.3	8.9	9.1	9.5	9.2	9.4	7.0	6.7	6.9	5.9	5.0	5.5
24	9.4	8.9	9.1	9.4	9.1	9.2	6.9	6.6	6.7	6.1	5.5	5.8
25	9.5	9.2	9.3	9.6	9.2	9.4	6.8	6.2	6.6	5.8	4.8	5.3
26	9.4	8.9	9.1	9.4	9.0	9.2	7.0	6.4	6.7	5.9	5.3	5.6
27	9.2	8.8	9.0	9.6	9.4	9.5	6.7	6.1	6.4	5.8	5.1	5.6
28	9.3	9.0	9.2	10.0	9.6	9.8	6.8	6.0	6.3	5.9	5.2	5.7
29	---	---	---	10.1	9.7	9.9	7.3	6.4	6.8	5.6	5.1	5.4
30	---	---	---	10.1	9.7	9.9	7.3	6.9	7.1	5.7	5.0	5.3
31	---	---	---	10.0	9.6	9.8	---	---	---	6.0	5.0	5.6
MONTH	---	---	---	---	---	---	---	---	---	7.9	4.8	6.1

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

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.7	5.9	6.2	4.6	4.2	4.4	6.2	5.4	5.7	3.5	2.2	2.8
2	7.0	6.6	6.8	4.8	4.1	4.5	6.2	5.3	5.7	3.3	2.6	2.9
3	7.0	6.8	6.9	5.4	3.7	4.4	5.8	5.1	5.5	3.2	2.3	2.8
4	7.2	6.8	7.0	5.5	4.4	4.8	5.6	5.0	5.3	3.0	2.3	2.7
5	7.1	6.6	6.9	5.5	4.9	5.3	5.7	5.1	5.3	2.9	2.0	2.5
6	7.3	6.6	6.8	5.5	4.8	5.1	5.6	4.9	5.2	2.8	1.7	2.2
7	6.9	6.6	6.7	5.4	4.8	5.0	5.6	5.0	5.3	2.4	1.4	2.0
8	7.0	6.5	6.7	6.0	5.1	5.4	5.4	4.8	5.2	2.5	1.6	2.1
9	6.7	5.9	6.3	6.0	4.6	5.0	5.2	4.8	5.0	3.3	2.2	2.8
10	5.9	5.5	5.6	5.1	4.5	4.8	5.2	4.8	5.0	3.3	2.3	2.7
11	5.8	5.4	5.7	5.1	4.5	4.8	---	---	---	3.8	2.2	2.9
12	5.9	5.6	5.8	5.3	4.6	4.9	---	---	---	3.9	3.0	3.3
13	5.9	5.6	5.8	5.2	4.7	4.9	---	---	---	4.6	3.5	3.8
14	6.1	5.7	5.8	5.3	4.7	4.9	---	---	---	5.1	3.9	4.5
15	6.1	5.8	6.0	5.2	4.9	5.1	4.4	2.3	4.1	5.5	4.9	5.1
16	5.9	5.2	5.5	5.3	4.9	5.1	4.6	3.6	4.0	5.7	4.8	5.2
17	5.4	4.8	5.1	5.6	4.9	5.2	4.6	2.8	3.4	4.8	3.8	4.3
18	4.8	4.3	4.6	5.7	4.8	5.3	3.4	2.3	2.7	4.3	3.7	4.0
19	4.3	3.8	4.0	5.4	4.7	5.1	2.8	2.0	2.4	5.8	3.4	4.5
20	3.9	3.8	3.8	6.0	5.0	5.3	3.6	1.8	2.3	5.9	5.0	5.4
21	3.8	3.6	3.7	6.0	5.0	5.4	4.0	2.1	3.3	5.3	4.8	5.2
22	3.7	3.5	3.6	5.8	4.9	5.3	4.2	3.3	3.8	5.8	4.8	5.6
23	4.2	3.5	3.7	5.1	4.4	4.8	3.8	3.1	3.5	5.8	5.1	5.5
24	3.8	3.5	3.6	5.7	4.7	5.3	4.1	2.4	3.4	5.8	3.8	5.1
25	3.8	3.6	3.7	6.0	5.1	5.6	4.0	3.2	3.5	5.3	3.4	4.1
26	3.9	3.4	3.6	6.1	5.6	5.9	3.7	3.1	3.3	5.9	5.2	5.6
27	3.8	3.3	3.5	7.6	5.9	6.4	3.9	2.9	3.3	5.8	5.5	5.6
28	3.9	3.6	3.7	6.9	6.3	6.5	3.8	2.6	3.3	6.2	5.5	5.8
29	4.2	3.7	3.9	6.7	6.2	6.4	3.8	3.2	3.6	6.5	5.6	6.0
30	4.5	4.0	4.2	6.7	6.0	6.3	3.9	3.1	3.5	6.6	6.0	6.2
31	---	---	---	6.3	5.5	5.9	3.5	2.5	2.8	---	---	---
MONTH	7.3	3.3	5.2	7.6	3.7	5.3	---	---	---	6.6	1.4	4.1

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	72	54	68	75	70	72	82	79	81	88	87	88
2	74	66	68	76	71	73	84	81	82	88	86	87
3	69	62	65	76	70	72	84	82	83	88	85	87
4	65	59	62	74	69	72	83	80	81	89	86	88
5	66	59	63	78	71	75	82	79	80	91	89	90
6	69	62	65	77	72	74	82	79	80	92	89	90
7	70	63	66	75	72	73	83	79	80	92	90	91
8	73	62	69	74	67	70	82	80	81	91	90	90
9	71	61	66	71	67	69	84	81	82	91	89	90
10	71	65	67	71	67	69	87	84	85	90	87	88
11	68	62	65	75	68	71	88	86	87	92	87	88
12	70	59	64	75	71	73	89	87	88	88	85	87
13	78	66	69	74	68	70	88	85	87	---	---	---
14	73	69	70	70	67	68	90	86	88	90	86	87
15	76	68	71	70	65	67	89	86	87	91	86	88
16	77	71	73	71	67	69	89	87	88	93	86	89
17	78	70	75	71	65	68	92	88	90	90	84	86
18	77	70	74	72	65	68	92	88	90	85	83	84
19	78	70	73	72	67	69	90	87	88	88	82	84
20	76	67	71	77	71	73	89	86	87	85	83	84
21	74	63	68	82	73	78	89	85	86	87	82	84
22	71	65	68	84	80	82	88	85	86	87	82	85
23	74	68	71	84	79	81	87	86	86	89	82	85
24	73	67	69	83	81	82	87	84	85	88	82	84
25	76	69	71	86	81	83	89	86	87	89	83	85
26	78	71	74	86	80	82	88	86	87	91	84	87
27	78	71	75	85	78	82	87	85	86	90	87	89
28	---	---	---	82	80	80	89	85	87	90	85	88
29	76	70	73	81	78	80	91	87	88	87	85	86
30	77	69	72	82	80	81	89	87	88	91	86	88
31	74	70	71	---	---	---	92	86	87	91	89	90
MONTH	---	---	---	86	65	74	92	79	85	---	---	---

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

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	91	88	90	80	72	75	86	82	84	81	71	75
2	92	89	90	78	73	75	86	80	82	84	74	78
3	91	86	88	77	72	74	82	79	80	81	75	77
4	90	85	88	75	67	71	83	79	81	83	73	77
5	89	86	87	69	67	68	83	78	80	82	72	77
6	89	85	87	73	67	70	84	76	79	85	74	79
7	90	83	86	74	67	71	79	75	77	81	74	77
8	---	---	---	75	71	72	---	---	---	83	73	77
9	---	---	---	76	72	74	68	64	66	79	70	75
10	---	---	---	76	72	74	66	59	61	85	71	74
11	---	---	---	77	71	73	59	51	55	80	71	74
12	---	---	---	78	71	74	56	50	53	80	72	75
13	---	---	---	84	74	79	55	51	53	80	70	74
14	84	81	83	82	77	80	54	50	52	78	68	73
15	84	79	81	80	72	76	57	51	54	77	65	70
16	86	79	82	76	72	74	55	50	53	71	62	66
17	84	81	82	76	71	73	56	50	52	66	60	63
18	82	78	80	76	70	73	51	48	49	66	57	60
19	87	79	81	79	73	76	60	51	56	64	57	60
20	87	80	83	80	74	76	64	58	61	70	61	65
21	82	80	81	---	---	---	67	61	64	68	61	65
22	86	78	82	77	74	76	70	63	65	68	64	66
23	80	72	76	80	76	78	70	64	67	67	61	64
24	78	71	73	81	75	77	71	65	68	74	59	64
25	76	73	75	82	76	79	69	65	67	70	58	62
26	77	73	74	80	75	78	72	65	68	64	59	61
27	77	71	73	84	79	81	70	64	67	65	58	62
28	76	73	75	86	80	82	72	65	68	63	58	61
29	---	---	---	85	82	83	74	66	70	60	57	58
30	---	---	---	87	82	85	75	69	71	65	58	60
31	---	---	---	87	83	85	---	---	---	72	60	67
MONTH	---	---	---	---	---	---	---	---	---	85	57	69

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	73	68	70	82	70	75	84	68	74	58	48	53
2	80	71	74	83	72	76	82	69	73	62	44	51
3	86	78	82	77	66	72	85	68	73	60	50	53
4	87	81	84	83	67	73	81	67	73	60	46	51
5	89	80	83	89	74	79	87	67	73	55	45	48
6	85	78	81	95	73	78	99	68	74	60	43	48
7	82	79	80	91	69	75	82	71	76	59	43	48
8	83	78	80	81	71	75	79	72	75	67	46	51
9	79	70	75	81	70	74	79	72	76	67	49	57
10	70	65	68	104	74	80	77	70	74	73	50	56
11	73	67	70	79	70	75	---	---	---	65	50	57
12	77	71	74	82	69	75	---	---	---	74	57	63
13	82	74	77	79	72	74	---	---	---	66	55	60
14	85	74	78	79	72	75	---	---	---	71	60	64
15	82	74	78	81	73	76	77	65	68	75	68	70
16	74	67	69	87	75	77	72	59	65	81	66	72
17	67	60	64	92	73	80	86	57	69	73	62	67
18	61	55	58	81	62	74	62	45	52	75	56	66
19	55	47	49	70	52	61	55	46	50	80	65	72
20	49	47	48	83	54	65	55	47	50	74	62	65
21	49	47	48	87	52	64	58	42	48	84	61	66
22	50	47	48	88	52	64	57	46	51	77	63	69
23	60	47	51	87	54	68	60	47	51	83	60	71
24	54	47	50	80	44	61	55	42	49	76	65	70
25	59	51	53	78	50	68	60	46	51	79	63	67
26	62	51	54	79	51	68	61	44	52	78	63	70
27	57	51	53	81	48	72	62	46	54	76	66	71
28	61	54	58	78	72	74	66	50	56	80	69	73
29	68	60	63	74	69	71	59	49	54	79	68	74
30	84	66	72	76	69	72	60	43	49	81	69	74
31	---	---	---	85	68	73	63	45	54	---	---	---
MONTH	89	47	66	104	44	72	---	---	---	84	43	63

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

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	72	61	69	77	73	75	91	88	89	102	99	100
2	70	62	66	78	74	76	92	89	91	100	98	99
3	65	61	63	79	75	76	93	90	92	100	97	99
4	61	54	58	79	74	77	92	89	90	102	99	100
5	62	56	59	82	78	80	91	87	89	104	101	103
6	63	56	60	80	77	79	90	88	89	105	102	103
7	67	56	63	79	75	78	89	87	88	106	103	104
8	72	61	68	79	74	76	92	87	90	105	103	104
9	71	60	65	78	74	76	93	90	92	104	102	103
10	66	61	64	81	77	78	97	92	94	103	99	101
11	68	58	62	83	76	80	98	96	97	102	98	99
12	67	57	60	82	79	81	99	96	97	102	95	98
13	68	64	66	80	77	79	99	95	97	---	---	---
14	69	66	68	79	77	78	99	95	98	101	97	98
15	70	66	68	80	75	77	100	97	98	101	94	97
16	73	68	71	81	77	79	100	98	99	100	94	97
17	72	67	70	82	78	79	104	99	102	100	92	95
18	74	68	71	82	78	80	103	99	101	96	91	93
19	74	68	70	---	---	---	102	98	100	97	90	93
20	73	66	70	84	81	82	101	97	99	94	88	91
21	71	61	64	87	83	85	100	96	98	---	---	---
22	72	60	66	88	85	86	99	96	98	95	88	91
23	75	68	71	87	85	86	99	96	98	95	88	92
24	72	65	68	87	86	87	99	96	97	94	89	91
25	76	68	72	90	86	88	100	97	99	97	90	93
26	79	74	75	90	87	89	100	97	98	101	91	94
27	83	75	79	90	88	89	98	96	97	98	94	96
28	---	---	---	90	86	88	102	97	99	99	91	95
29	78	74	76	90	87	88	102	99	100	96	92	93
30	76	73	74	91	87	90	101	98	100	100	94	97
31	76	73	75	---	---	---	102	97	99	100	94	97
MONTH	---	---	---	---	---	---	104	87	96	---	---	---

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

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

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	78	69	73	59	53	56	76	67	70	45	27	35
2	83	77	80	61	52	56	76	66	70	42	33	37
3	84	81	82	68	47	56	72	62	68	41	30	36
4	86	81	83	70	56	60	70	63	65	38	29	34
5	85	79	82	70	63	67	71	63	66	37	25	31
6	87	79	81	70	61	65	70	61	65	35	22	28
7	83	79	81	69	61	63	71	64	67	31	17	26
8	85	78	81	76	65	68	70	62	67	31	20	27
9	80	70	76	76	58	63	68	62	66	42	29	35
10	70	65	66	65	57	62	68	62	65	42	29	34
11	71	66	68	66	59	62	---	---	---	48	28	37
12	72	67	70	68	59	64	---	---	---	49	38	42
13	72	67	70	67	60	62	---	---	---	57	45	48
14	74	69	71	67	58	61	---	---	---	64	49	56
15	74	70	72	66	61	64	58	30	53	67	60	62
16	70	63	65	66	61	64	60	46	52	68	58	62
17	64	57	60	71	61	65	59	35	45	58	45	51
18	57	52	54	71	61	67	44	29	34	51	44	48
19	52	45	47	68	59	64	35	25	30	71	41	54
20	46	45	45	75	62	66	47	22	29	72	61	65
21	46	43	44	75	62	67	52	27	42	65	58	62
22	45	43	44	72	61	66	55	42	49	70	58	68
23	51	42	45	64	55	61	49	40	45	71	62	67
24	47	42	44	73	59	68	53	30	44	71	45	61
25	47	43	45	78	65	72	52	40	44	64	41	49
26	47	41	44	78	72	76	47	39	42	71	63	67
27	46	41	43	95	76	81	50	36	42	69	65	66
28	48	44	46	86	79	82	48	33	41	74	65	69
29	54	46	49	84	77	80	47	40	44	75	66	70
30	58	50	54	83	74	78	49	39	43	75	68	71
31	---	---	---	77	68	72	45	31	35	---	---	---
MONTH	87	41	62	95	47	66	---	---	---	75	17	50

Dry Falls on the Cullasaja River near Highlands, North Carolina.

0208114250 ROANOKE RIVER AT LIGHT 11 NEAR WESTOVER, NC

LOCATION.--Lat 35°56'15", long 76°41'47", Bertie County, Hydrologic Unit 03010107, at channel light 11, 0.6 mi above mouth and approximately 2.3 mi northwest of Westover.

DRAINAGE AREA.--Undetermined.

TIDAL-ELEVATION RECORDS

PERIOD OF RECORD.--February 2001 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is sea level (from topographic map). Satellite telemetry at station.

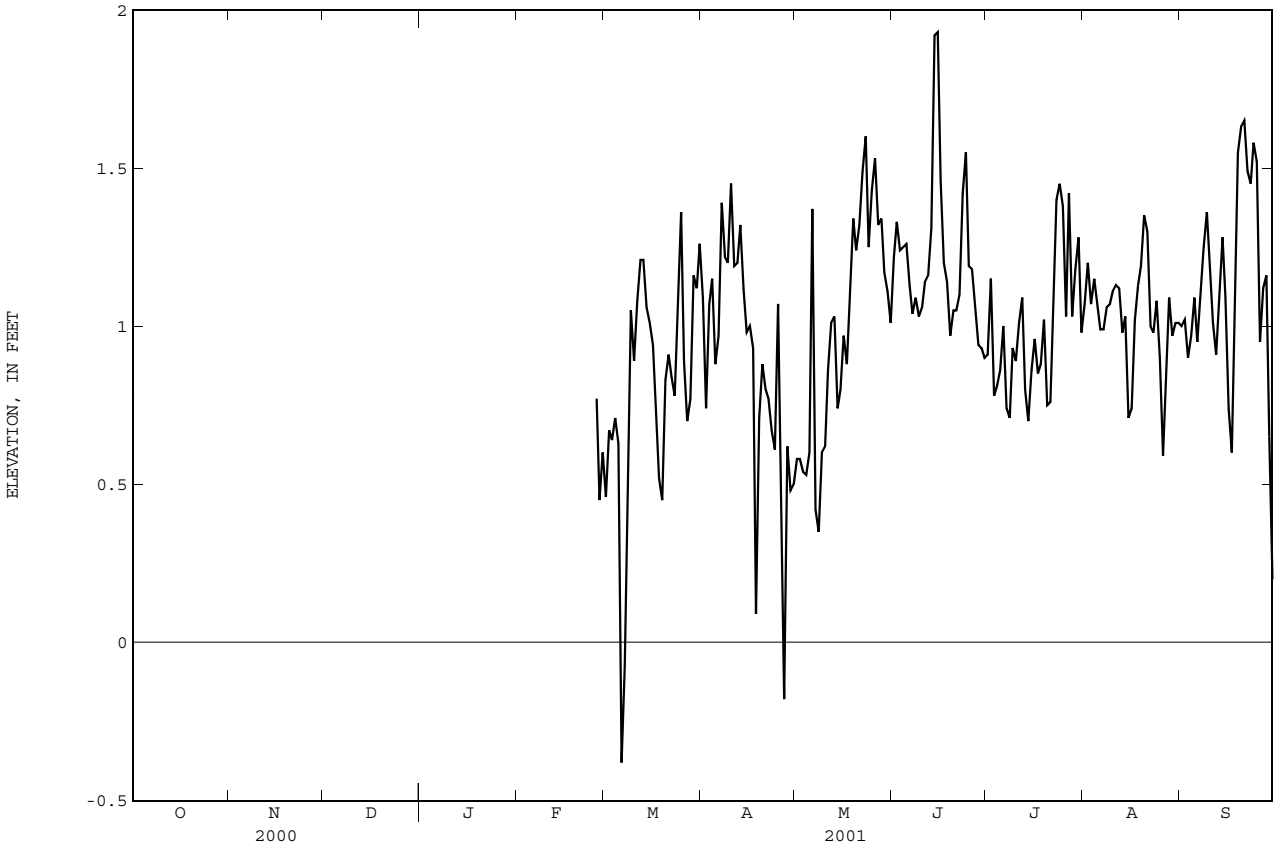
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 2.19 ft, June 14, 15, 2001; minimum elevation, -0.93 ft, Mar. 6, 2001.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 2.19 ft, June 14, 15; minimum elevation, -0.93 ft, Mar. 6.

ELEVATION, IN FEET, WATER YEAR FEBRUARY 2001 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	.46	1.09	.58	1.22	.91	1.07	1.00
2	---	---	---	---	---	.67	.74	.58	1.33	1.15	1.20	1.02
3	---	---	---	---	---	.64	1.07	.54	1.24	.78	1.07	.90
4	---	---	---	---	---	.71	1.15	.53	1.25	.81	1.15	.97
5	---	---	---	---	---	.63	.88	.60	1.26	.86	1.07	1.09
6	---	---	---	---	---	-.38	.97	1.37	1.13	1.00	.99	.95
7	---	---	---	---	---	-.07	1.39	.42	1.04	.74	.99	1.10
8	---	---	---	---	---	.68	1.22	.35	1.09	.71	1.06	1.25
9	---	---	---	---	---	1.05	1.20	.60	1.03	.93	1.07	1.36
10	---	---	---	---	---	.89	1.45	.62	1.06	.89	1.11	1.19
11	---	---	---	---	---	1.08	1.19	.86	1.14	1.01	1.13	1.01
12	---	---	---	---	---	1.21	1.20	1.01	1.16	1.09	1.12	.91
13	---	---	---	---	---	1.21	1.32	1.03	1.31	.80	.98	1.08
14	---	---	---	---	---	1.06	1.12	.74	1.92	.70	1.03	1.28
15	---	---	---	---	---	1.01	.98	.80	1.93	.86	.71	1.09
16	---	---	---	---	---	.94	1.00	.97	1.46	.96	.74	.74
17	---	---	---	---	---	.77	.93	.88	1.20	.85	1.02	.60
18	---	---	---	---	---	.52	.09	1.14	1.14	.88	1.13	1.23
19	---	---	---	---	---	.45	.71	1.34	.97	1.02	1.19	1.55
20	---	---	---	---	---	.83	.88	1.24	1.05	.75	1.35	1.63
21	---	---	---	---	---	.91	.80	1.32	1.05	.76	1.30	1.65
22	---	---	---	---	---	.84	.77	1.49	1.10	1.03	1.00	1.49
23	---	---	---	---	---	.78	.67	1.60	1.42	1.40	.98	1.45
24	---	---	---	---	---	1.05	.61	1.25	1.55	1.45	1.08	1.58
25	---	---	---	---	---	1.36	1.07	1.43	1.19	1.38	.90	1.52
26	---	---	---	---	.77	.89	.38	1.53	1.18	1.03	.59	.95
27	---	---	---	---	.45	.70	-.18	1.32	1.06	1.42	.87	1.12
28	---	---	---	---	.60	.77	.62	1.34	.94	1.03	1.09	1.16
29	---	---	---	---	---	1.16	.48	1.17	.93	1.18	.97	.65
30	---	---	---	---	---	1.12	.50	1.11	.90	1.28	1.01	.20
31	---	---	---	---	---	1.26	---	1.01	---	.98	1.01	---
TOTAL	---	---	---	---	---	25.20	26.30	30.77	36.25	30.64	31.98	33.72
MEAN	---	---	---	---	---	.81	.88	.99	1.21	.99	1.03	1.12
MAX	---	---	---	---	---	1.36	1.45	1.60	1.93	1.45	1.35	1.65
MIN	---	---	---	---	---	-.38	-.18	.35	.90	.70	.59	.20

0208114250 ROANOKE RIVER AT LIGHT 11 NEAR WESTOVER, NC--Continued



02081500 TAR RIVER NEAR TAR RIVER, NC

LOCATION.--Lat 36°11'41", long 78°35'00", 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 287.25 ft above sea level. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges which are fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	4.1	10	15	34	60	1240	32	54	16	71	5.9
2	15	4.5	8.7	14	31	53	1560	29	577	14	45	6.6
3	14	5.0	8.4	14	28	49	533	27	179	12	32	5.4
4	13	5.5	6.9	13	26	134	327	27	77	12	27	4.8
5	11	5.5	6.2	13	28	352	242	25	48	55	23	4.6
6	9.7	6.8	6.6	13	29	324	192	24	37	64	19	4.1
7	7.7	6.5	6.7	13	29	170	164	22	32	33	17	3.5
8	7.8	7.2	7.2	14	28	106	143	21	36	25	14	3.0
9	7.1	6.8	6.5	15	26	77	122	21	40	30	13	4.6
10	5.5	7.3	6.9	15	26	63	104	20	33	27	12	5.4
11	5.7	7.0	7.4	15	24	56	89	19	26	20	34	5.8
12	e4.7	8.2	7.3	14	23	50	81	19	29	15	162	6.8
13	e4.2	7.7	7.1	14	30	50	76	19	44	12	66	6.3
14	4.4	9.8	7.2	13	45	49	71	18	44	11	259	5.5
15	4.0	7.5	7.2	14	64	49	65	17	75	10	56	4.1
16	3.8	5.7	8.0	14	79	75	59	19	548	9.0	24	3.1
17	3.7	5.6	170	13	984	123	55	24	333	7.8	17	2.7
18	3.4	14	222	15	639	80	57	30	124	6.9	14	2.6
19	3.1	11	87	18	227	62	51	32	62	6.5	13	2.3
20	3.1	7.4	56	175	137	55	47	28	44	6.0	12	2.0
21	3.5	6.5	44	359	94	2180	44	25	33	5.4	11	4.0
22	3.1	6.5	36	163	76	3680	42	23	27	5.0	9.7	2.5
23	2.5	6.8	30	94	71	852	39	23	62	4.8	8.8	2.1
24	4.5	5.8	25	65	82	309	37	21	59	4.6	8.3	2.6
25	3.9	9.1	22	52	87	209	43	19	38	4.9	7.8	4.1
26	2.8	20	21	43	96	159	56	37	27	4.4	6.6	3.2
27	4.7	26	20	36	90	127	52	146	23	1030	5.9	2.7
28	3.8	20	19	31	71	102	44	69	22	456	5.2	2.7
29	3.8	15	18	28	---	427	37	45	20	142	5.1	3.2
30	3.8	12	17	30	---	4430	34	34	19	240	4.4	2.8
31	4.2	---	16	34	---	1790	---	26	---	148	5.1	---
TOTAL	189.5	270.8	921.3	1379	3204	16302	5706	941	2772	2437.3	1007.9	119.0
MEAN	6.11	9.03	29.7	44.5	114	526	190	30.4	92.4	78.6	32.5	3.97
MAX	18	26	222	359	984	4430	1560	146	577	1030	259	6.8
MIN	2.5	4.1	6.2	13	23	49	34	17	19	4.4	4.4	2.0
CFSM	.04	.05	.18	.27	.69	3.15	1.14	.18	.55	.47	.19	.02
IN.	.04	.06	.21	.31	.71	3.63	1.27	.21	.62	.54	.22	.03

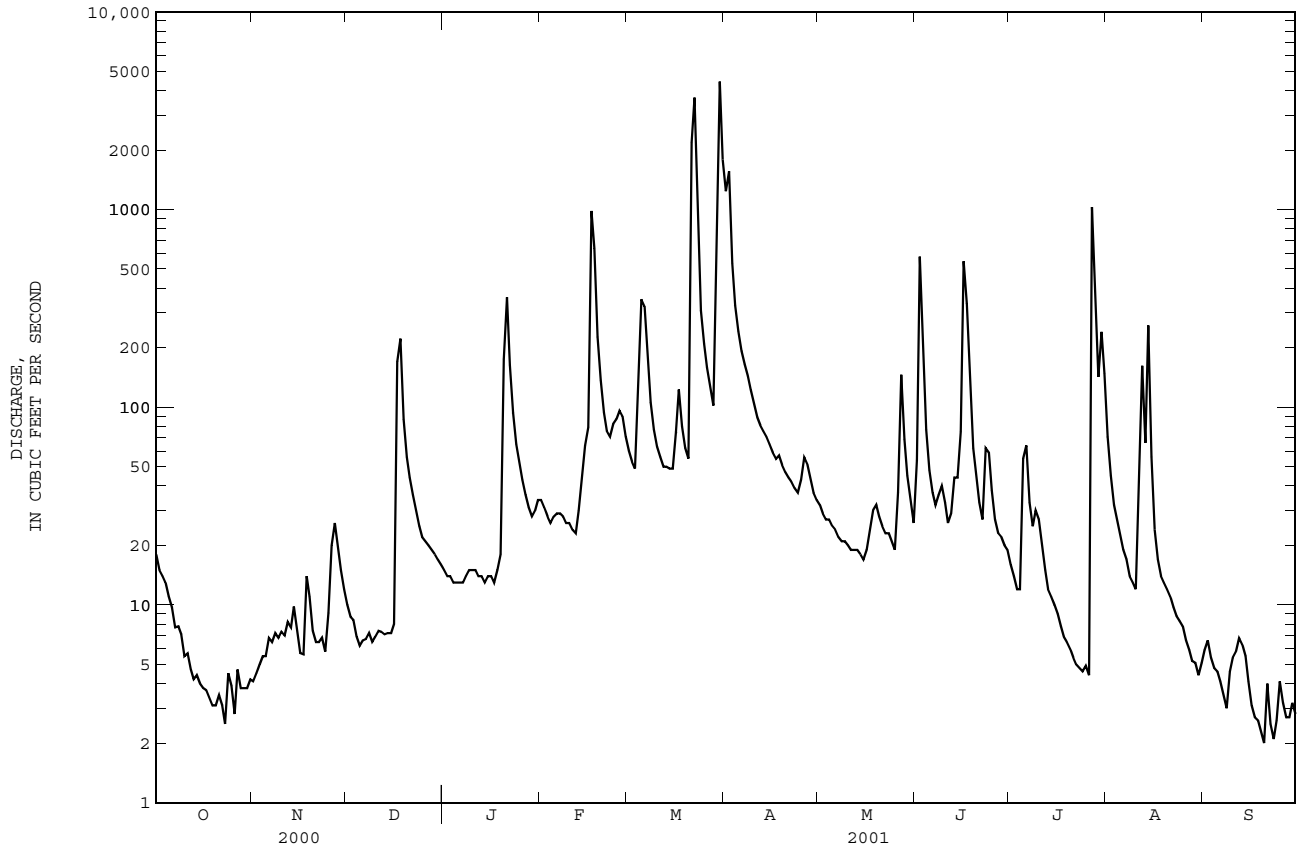
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	65.1	110	144	258	320	340	216	119	76.8	79.3	75.5	84.7
MAX	565	599	558	819	798	1047	676	475	488	677	542	939
(WY)	1972	1973	1973	1978	1960	1998	1978	1978	1982	1975	1955	1999
MIN	.41	.28	4.39	7.04	62.6	61.0	33.1	16.9	4.30	.92	1.39	.28
(WY)	1971	1942	1942	1942	1968	1981	1995	1941	1970	1966	1976	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	48424.7		35249.8			
ANNUAL MEAN	132		96.6		157	
HIGHEST ANNUAL MEAN					336	1973
LOWEST ANNUAL MEAN					51.0	1981
HIGHEST DAILY MEAN	2770	Mar 17	4430	Mar 30	10800	Sep 7 1996
LOWEST DAILY MEAN	2.5	Oct 23	2.0	Sep 20	.02	Aug 13 1977
ANNUAL SEVEN-DAY MINIMUM	3.2	Oct 17	2.6	Sep 18	.07	Aug 8 1977
MAXIMUM PEAK FLOW			5760	Mar 30	19900*	Sep 6 1996
MAXIMUM PEAK STAGE			12.25	Mar 30	24.06	Sep 6 1996
INSTANTANEOUS LOW FLOW			1.7	Sep 20	.00	Aug 14 1977
ANNUAL RUNOFF (CFSM)	.79		.58		.94	
ANNUAL RUNOFF (INCHES)	10.79		7.85		12.74	
10 PERCENT EXCEEDS	314		152		325	
50 PERCENT EXCEEDS	46		21		44	
90 PERCENT EXCEEDS	6.7		4.3		3.6	

e Estimated.
* See REMARKS.

02081500 TAR RIVER NEAR TAR RIVER, NC--Continued



02081747 TAR RIVER AT U.S. 401 AT LOUISBURG, NC

LOCATION.--Lat 36°05'34", long 78°17'48", 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.

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 176.71 ft above sea level. 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 good except those for estimated daily discharges, which are poor.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	146	72	106	e102	154	223	4890	132	111	55	255	53
2	133	73	109	e100	137	199	3610	128	632	53	163	90
3	121	74	123	e99	127	187	3250	123	606	49	119	69
4	112	75	106	e99	119	292	e1200	114	264	47	95	56
5	104	78	97	e98	141	571	e800	108	158	134	82	50
6	96	78	93	e99	150	762	601	102	121	271	75	46
7	89	77	92	e102	145	525	518	96	116	144	66	43
8	82	77	91	e110	132	378	466	90	162	90	61	40
9	77	82	89	115	123	295	417	88	123	126	57	38
10	77	85	88	104	121	246	375	85	108	118	54	44
11	76	85	88	100	119	212	333	85	92	81	185	71
12	74	79	89	99	115	194	308	81	81	65	451	52
13	74	78	85	95	130	191	290	88	102	56	366	42
14	74	97	90	93	164	190	265	81	148	50	566	37
15	73	123	99	95	194	190	250	76	329	46	596	35
16	72	125	117	96	218	223	228	93	751	41	211	33
17	72	103	268	95	794	269	210	122	702	38	126	31
18	71	93	644	100	2320	262	225	130	426	35	96	29
19	71	93	405	119	1060	207	215	134	219	33	87	28
20	70	129	260	210	503	185	192	120	150	33	94	26
21	71	123	211	655	393	1820	181	112	117	33	136	26
22	70	110	181	511	324	3800	175	121	98	30	92	27
23	69	98	155	319	292	5060	168	112	93	29	69	27
24	68	91	e139	235	288	2980	160	99	134	28	63	33
25	68	110	e135	195	308	692	254	84	127	28	61	54
26	71	259	e124	167	319	502	272	75	95	41	55	58
27	74	270	e118	151	310	414	218	163	77	803	51	48
28	74	175	e115	138	268	350	180	225	70	1730	48	38
29	76	137	e111	128	---	589	158	148	63	485	47	32
30	73	120	e108	135	---	2890	141	118	58	444	45	29
31	73	---	e105	153	---	5440	---	93	---	448	46	---
TOTAL	2551	3269	4641	4917	9468	30338	20550	3426	6333	5664	4518	1285
MEAN	82.3	109	150	159	338	979	685	111	211	183	146	42.8
MAX	146	270	644	655	2320	5440	4890	225	751	1730	596	90
MIN	68	72	85	93	115	185	141	75	58	28	45	26
CFSM	.19	.26	.35	.37	.79	2.29	1.60	.26	.49	.43	.34	.10
IN.	.22	.28	.40	.43	.82	2.64	1.79	.30	.55	.49	.39	.11

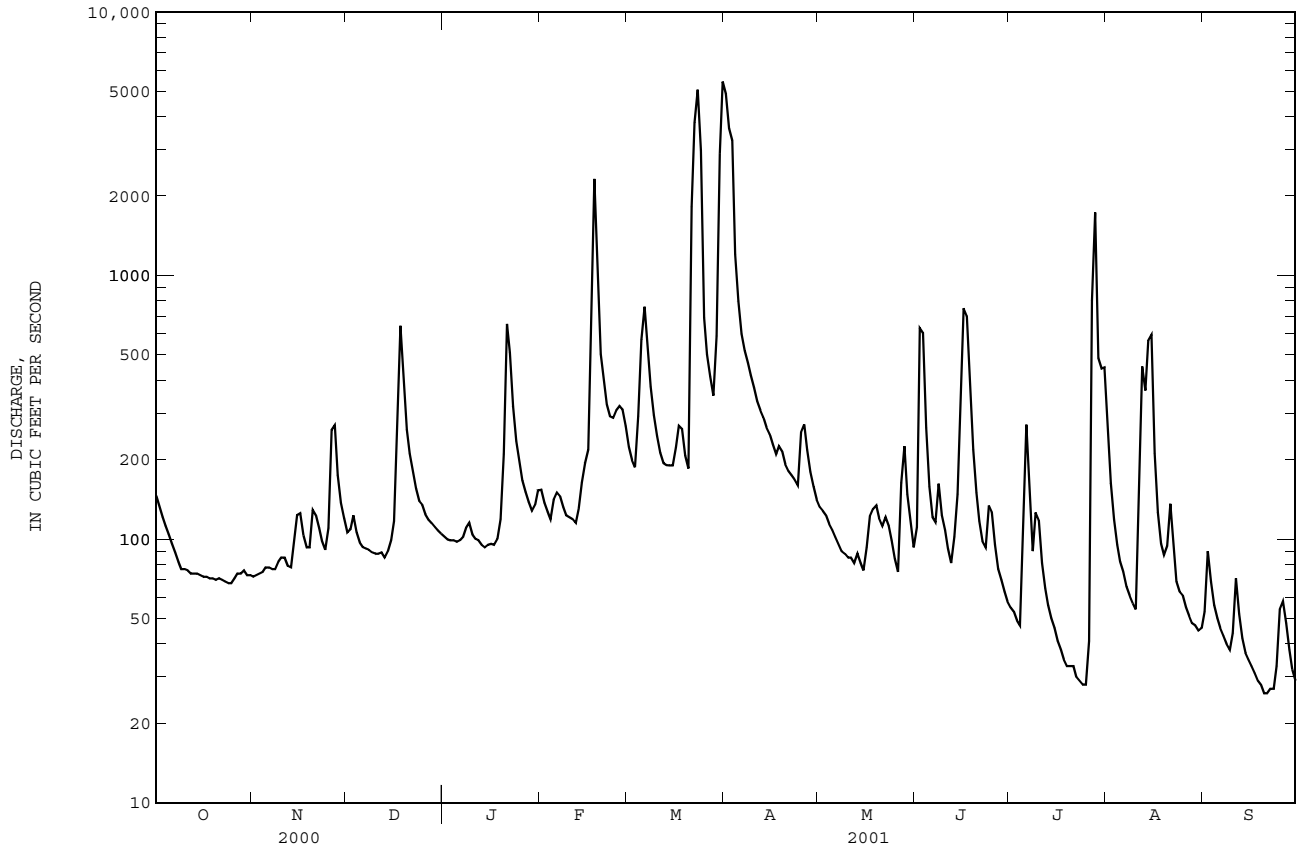
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	177	283	389	815	794	997	626	365	245	233	167	310
MAX	734	1192	1108	1845	1956	2726	1557	984	1451	1692	512	2949
(WY)	2000	1986	1984	1978	1998	1998	1993	1989	1982	1975	1986	1999
MIN	28.5	34.9	86.5	78.0	202	214	127	104	35.4	43.3	26.8	19.7
(WY)	1987	1999	1981	1981	1977	1988	1995	1995	1986	1986	1988	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	140491		96960			
ANNUAL MEAN	384		266		449	
HIGHEST ANNUAL MEAN					729	1984
LOWEST ANNUAL MEAN					131	1981
HIGHEST DAILY MEAN	4200	Jul 24	5440	Mar 31	22400	Sep 17 1999
LOWEST DAILY MEAN	68	Oct 24	26	Sep 20	8.1	Aug 14 1977
ANNUAL SEVEN-DAY MINIMUM	70	Oct 19	28	Sep 17	9.2	Sep 16 1985
MAXIMUM PEAK FLOW			6160	Mar 31	23700	Sep 17 1999
MAXIMUM PEAK STAGE			20.75	Mar 31	26.05	Sep 17 1999
INSTANTANEOUS LOW FLOW			25	Sep 20	7.3	Aug 14 1977
ANNUAL RUNOFF (CFSM)	.90		.62		1.05	
ANNUAL RUNOFF (INCHES)	12.24		8.45		14.30	
10 PERCENT EXCEEDS	806		457		1000	
50 PERCENT EXCEEDS	219		112		202	
90 PERCENT EXCEEDS	82		48		41	

e Estimated

02081747 TAR RIVER AT U.S. 401 AT LOUISBURG, NC--Continued



02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC

LOCATION.--Lat 35°53'58", long 77°51'57", 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 85.9 ft above sea level (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 10.1 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	210	155	120	285	520	566	4910	401	133	169	863	234
2	386	153	119	274	516	494	6240	369	397	178	572	216
3	386	151	121	269	506	454	7280	330	1540	190	398	248
4	346	152	123	262	490	784	6580	280	2100	183	312	207
5	311	153	122	254	361	1340	4290	294	127	187	250	149
6	282	156	121	251	132	1590	1820	220	129	224	205	143
7	249	158	135	252	55	1590	1320	178	156	323	180	138
8	226	160	179	259	322	1190	1120	387	210	344	176	137
9	212	167	216	272	138	857	988	337	237	290	169	136
10	199	182	234	280	176	675	898	209	243	231	157	136
11	183	174	238	284	176	570	1900	246	233	221	153	135
12	176	176	241	282	177	487	1350	232	212	208	163	141
13	176	177	228	276	178	476	1060	242	192	188	301	147
14	173	190	246	274	168	438	680	227	194	173	968	143
15	172	205	241	274	197	453	552	155	360	159	1020	141
16	170	222	272	455	371	518	502	126	1070	156	1010	139
17	167	241	472	585	661	556	482	117	2380	147	558	138
18	167	243	1080	566	1550	579	478	118	1750	145	400	151
19	166	250	1490	553	2820	554	471	116	1020	144	337	174
20	165	271	1100	546	2220	478	461	115	590	142	279	134
21	165	262	752	539	1150	2230	433	117	416	139	268	131
22	159	266	581	551	864	4070	400	115	331	e138	237	128
23	155	262	480	566	777	4440	453	115	276	e136	226	129
24	155	258	425	571	691	4460	426	116	266	133	206	127
25	153	269	384	567	668	4940	449	114	250	128	181	124
26	152	501	360	562	667	3670	657	114	238	121	165	122
27	153	934	322	554	659	1260	774	135	233	140	155	120
28	156	2550	303	547	622	973	655	348	216	1220	162	121
29	156	575	303	541	---	1160	517	e1500	196	2870	170	120
30	156	122	306	538	---	2900	442	129	180	1700	169	120
31	156	---	300	525	---	4110	---	125	---	1080	174	---
TOTAL	6238	9735	11614	12814	17832	48862	48588	7627	15875	11807	10584	4429
MEAN	201	324	375	413	637	1576	1620	246	529	381	341	148
MAX	386	2550	1490	585	2820	4940	7280	1500	2380	2870	1020	248
MIN	152	122	119	251	55	438	400	114	127	121	153	120

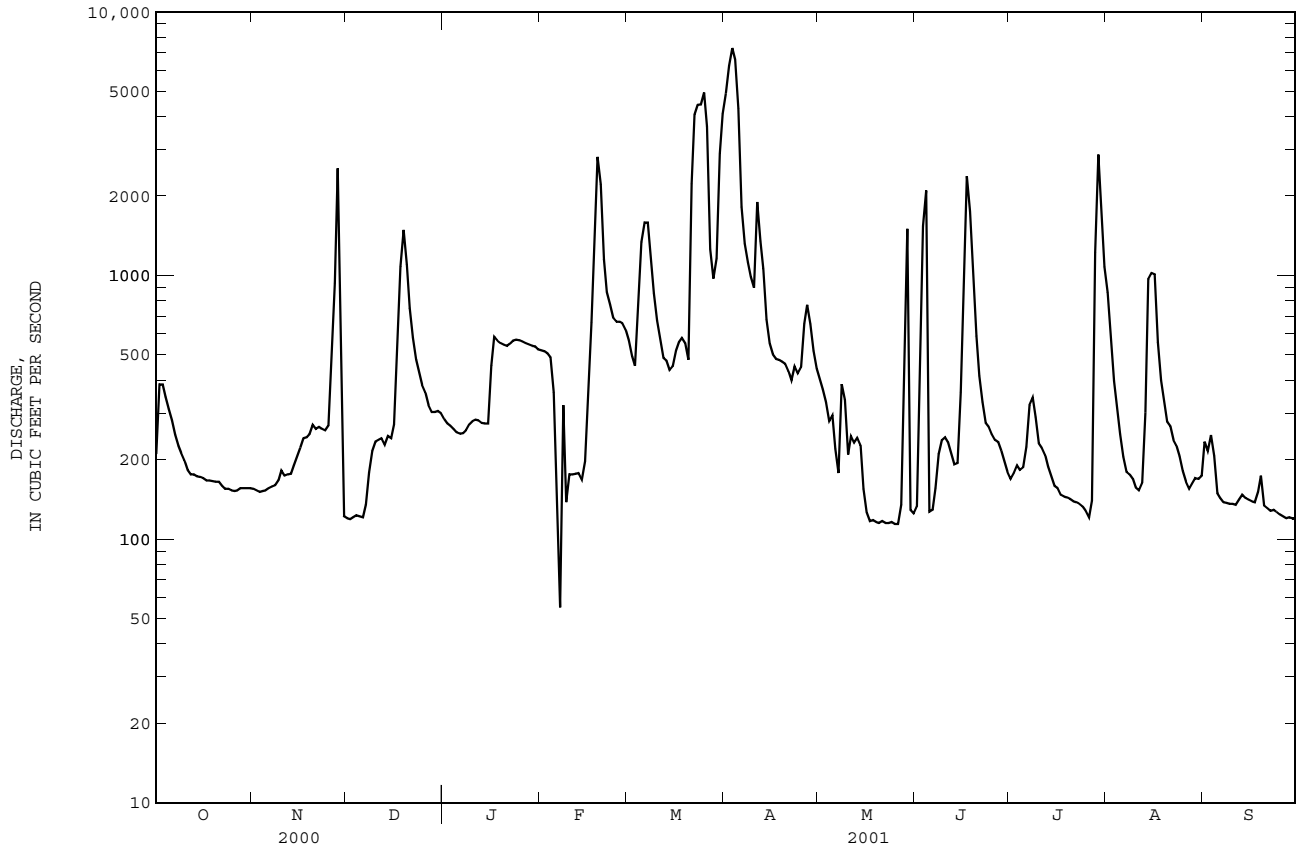
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2001, BY WATER YEAR (WY)

MEAN	377	528	720	1357	1411	1744	1134	701	520	467	375	567
MAX	2157	1876	2406	2794	3002	3829	2864	2123	2064	2321	1147	6436
(WY)	2000	1973	1973	1978	1998	1998	1987	1989	1982	1975	2000	1999
MIN	60.2	66.2	109	186	456	358	284	192	101	67.9	77.9	75.4
(WY)	1994	1981	1992	1981	1991	1981	1981	1995	1991	1986	1988	1993

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1972 - 2001	
ANNUAL TOTAL	314274		206005			
ANNUAL MEAN	859		564		823	
HIGHEST ANNUAL MEAN					1471	1973
LOWEST ANNUAL MEAN					211	1981
HIGHEST DAILY MEAN	8630	Jul 27	7280	Apr 3	25000	Sep 17 1999
LOWEST DAILY MEAN	119	Dec 2	55	Feb 7	29	Oct 28 1993
ANNUAL SEVEN-DAY MINIMUM	121	Nov 30	115	May 20	36	Oct 27 1993
MAXIMUM PEAK FLOW			7450	Apr 3	29300	Sep 16 1999
MAXIMUM PEAK STAGE			16.82	Apr 3	32.89*	Sep 16 1999
INSTANTANEOUS LOW FLOW			52*	Feb 7	28*	Oct 28 1993
10 PERCENT EXCEEDS	2100		1150		1950	
50 PERCENT EXCEEDS	463		252		376	
90 PERCENT EXCEEDS	157		133		97	

e Estimated.
* See REMARKS.

02082506 TAR RIVER BELOW TAR RIVER RESERVOIR NEAR ROCKY MOUNT, NC--Continued



02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC

LOCATION.--Lat 35°57'15", long 77°47'15", 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.

PERIOD OF RECORD.--August 1976 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 53.88 ft above sea level. City of Rocky Mount telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Prior to October 1996, some regulation at low flow caused by mill above station. The city of Rocky Mount diverted an average of 21.8 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	283	177	171	365	645	700	6500	481	164	174	1230	118
2	529	178	157	344	631	585	7910	457	667	162	822	91
3	561	178	150	334	619	593	8840	385	1920	175	563	101
4	516	178	154	324	609	1170	8520	268	2670	196	435	135
5	453	178	153	315	557	1760	6510	385	290	303	274	132
6	395	178	152	314	257	1980	2740	228	215	320	238	127
7	296	181	150	314	172	1850	1630	203	190	413	216	106
8	277	183	168	321	265	1380	1360	225	189	445	184	119
9	342	185	213	356	212	1030	1190	464	232	363	171	123
10	231	193	356	371	205	837	1070	203	244	284	172	117
11	223	237	229	373	214	724	1980	193	234	236	173	118
12	234	225	294	365	230	688	1580	228	205	201	186	117
13	218	221	288	349	243	611	1210	227	230	194	245	120
14	207	211	280	349	255	601	877	269	217	175	1040	136
15	212	248	315	357	263	596	700	216	634	167	1090	133
16	205	312	387	467	487	705	646	184	2380	161	1160	124
17	202	326	777	687	968	757	629	136	3920	142	731	123
18	197	325	1430	648	1680	754	640	120	2800	136	569	121
19	198	337	1710	640	3150	713	622	121	1430	133	455	118
20	198	395	1350	734	2800	646	584	125	830	116	358	116
21	208	375	938	806	1350	2950	555	174	582	125	334	100
22	194	392	748	798	1050	5360	460	172	449	110	274	91
23	183	350	636	735	978	6210	504	157	347	117	227	84
24	178	369	548	709	892	5730	558	138	356	115	233	177
25	178	409	505	691	864	5790	811	117	340	118	198	187
26	177	741	473	674	873	5140	937	124	252	108	161	157
27	175	1040	428	662	876	1680	1030	395	232	1050	146	184
28	172	2390	404	653	779	1140	824	600	281	2380	145	155
29	174	1390	401	639	---	1680	652	1660	216	4590	131	129
30	176	202	398	635	---	4050	557	337	202	3060	128	120
31	177	---	392	640	---	5530	---	194	---	1630	132	---
TOTAL	7969	12304	14755	15969	22124	63940	62626	9186	22918	17899	12421	3779
MEAN	257	410	476	515	790	2063	2088	296	764	577	401	126
MAX	561	2390	1710	806	3150	6210	8840	1660	3920	4590	1230	187
MIN	172	177	150	314	172	585	460	117	164	108	128	84

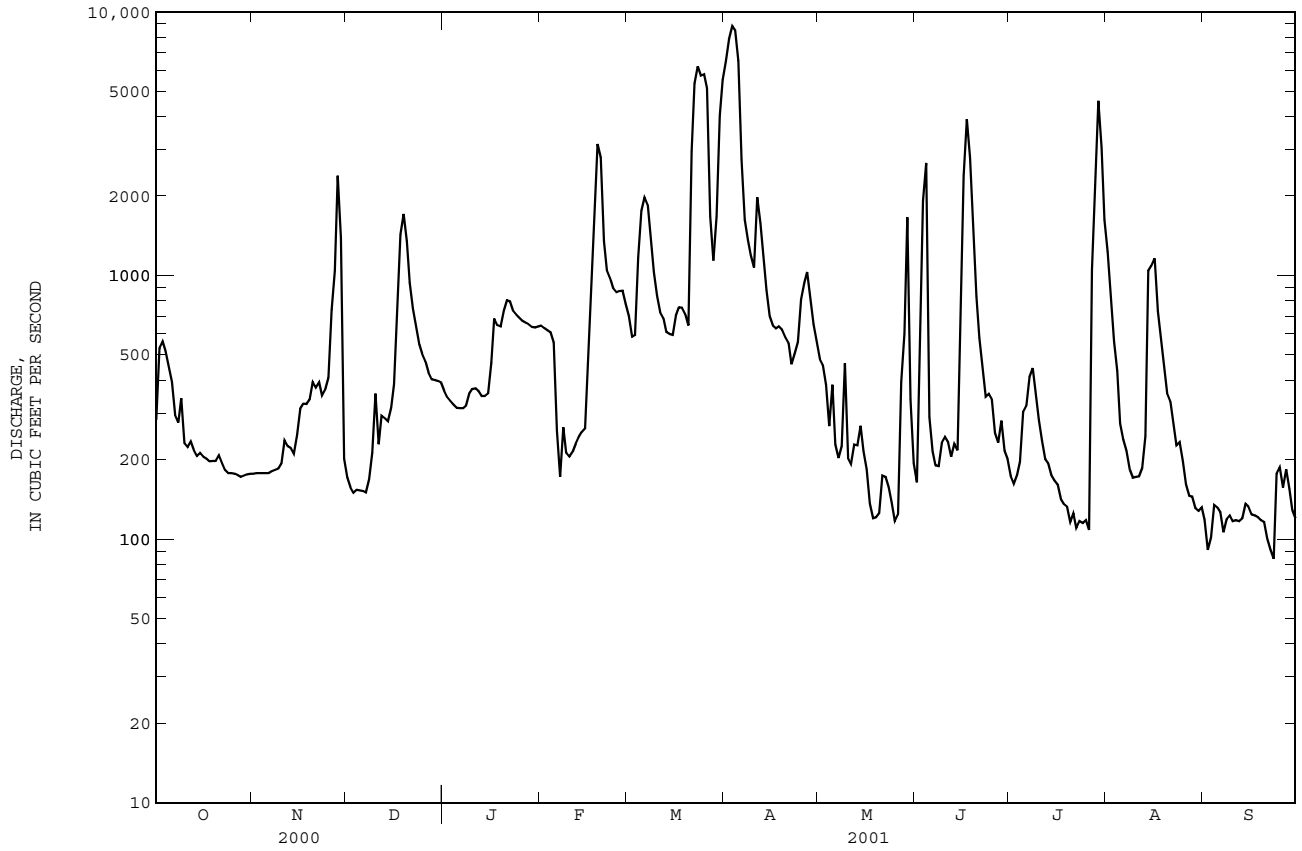
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	463	580	765	1562	1619	2096	1344	834	616	423	415	701
MAX	2918	1905	1720	3230	3920	4507	3447	2725	2238	1368	1266	8135
(WY)	2000	1980	1984	1978	1998	1998	1987	1989	1982	2000	2000	1999
MIN	70.4	74.5	125	254	546	477	332	210	118	54.1	79.7	70.6
(WY)	1981	1981	1992	1981	1977	1981	1995	1995	1999	1986	1987	1993

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	347731		265890			
ANNUAL MEAN	950		728		966	
HIGHEST ANNUAL MEAN					1500	1984
LOWEST ANNUAL MEAN					262	1981
HIGHEST DAILY MEAN	9370	Jul 27	8840	Apr 3	31500	Sep 17 1999
LOWEST DAILY MEAN	119	Jul 14	84	Sep 23	6.6	Oct 3 1983
ANNUAL SEVEN-DAY MINIMUM	145	Jul 8	108	Sep 17	31	Oct 18 1993
MAXIMUM PEAK FLOW			9080	Apr 3	34100	Sep 17 1999
MAXIMUM PEAK STAGE			20.65	Apr 3	31.66	Sep 17 1999
INSTANTANEOUS LOW FLOW			57*	Nov 30	5.7*	Sep 23 1988
10 PERCENT EXCEEDS	2120		1600		2230	
50 PERCENT EXCEEDS	560		326		447	
90 PERCENT EXCEEDS	178		132		97	

* See REMARKS.

02082585 TAR RIVER AT NC 97 AT ROCKY MOUNT, NC--Continued



02082770 SWIFT CREEK AT HILLIARDSTON, NC

LOCATION.--Lat 36°06'42", long 77°55'16", 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 130.42 ft above sea level. 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	55	79	e73	91	e160	1100	84	96	37	109	31
2	113	56	74	e70	85	e150	1310	82	230	33	78	37
3	104	55	70	e74	80	148	987	79	159	31	62	53
4	91	57	69	e80	75	211	740	78	116	31	51	51
5	83	56	69	e74	85	257	423	78	90	45	67	41
6	80	55	68	e68	111	e234	264	72	90	70	96	37
7	74	57	67	e70	102	e210	220	70	85	119	55	34
8	69	57	67	71	91	e190	193	69	68	88	46	31
9	65	61	66	80	85	172	177	69	68	70	40	28
10	63	64	64	84	82	162	161	69	68	60	38	28
11	62	63	64	77	78	154	148	66	60	47	34	63
12	61	62	64	72	75	e147	138	65	53	38	40	94
13	61	60	64	70	80	e155	133	63	52	34	85	46
14	62	63	65	69	93	e170	126	61	67	31	191	34
15	61	86	66	68	101	e150	119	63	386	28	202	29
16	58	87	77	71	106	e160	115	63	1100	26	183	27
17	57	76	197	70	247	e170	111	69	549	25	153	25
18	57	74	333	69	396	e157	116	78	320	25	82	24
19	57	71	199	74	382	151	118	85	168	26	67	22
20	57	77	177	116	313	143	111	85	104	24	64	21
21	56	90	140	192	215	821	106	80	80	22	77	21
22	54	85	114	172	188	1110	100	78	68	21	96	20
23	54	76	103	145	e187	1050	97	80	60	19	67	22
24	53	72	92	114	e200	1000	94	73	56	18	55	33
25	54	75	93	99	e200	437	139	69	54	20	50	101
26	54	139	e90	94	e215	218	195	83	51	18	44	59
27	55	166	e85	87	e190	179	152	83	51	845	40	42
28	57	154	82	81	e170	157	125	68	48	784	46	39
29	56	113	80	76	---	345	104	66	44	233	36	36
30	55	89	78	77	---	990	91	70	39	360	32	31
31	55	---	e74	90	---	865	---	64	---	210	33	---
TOTAL	2065	2351	3030	2727	4323	10623	8013	2262	4480	3438	2319	1160
MEAN	66.6	78.4	97.7	88.0	154	343	267	73.0	149	111	74.8	38.7
MAX	127	166	333	192	396	1110	1310	85	1100	845	202	101
MIN	53	55	64	68	75	143	91	61	39	18	32	20
CFSM	.40	.47	.59	.53	.93	2.06	1.61	.44	.90	.67	.45	.23
IN.	.46	.53	.68	.61	.97	2.38	1.80	.51	1.00	.77	.52	.26

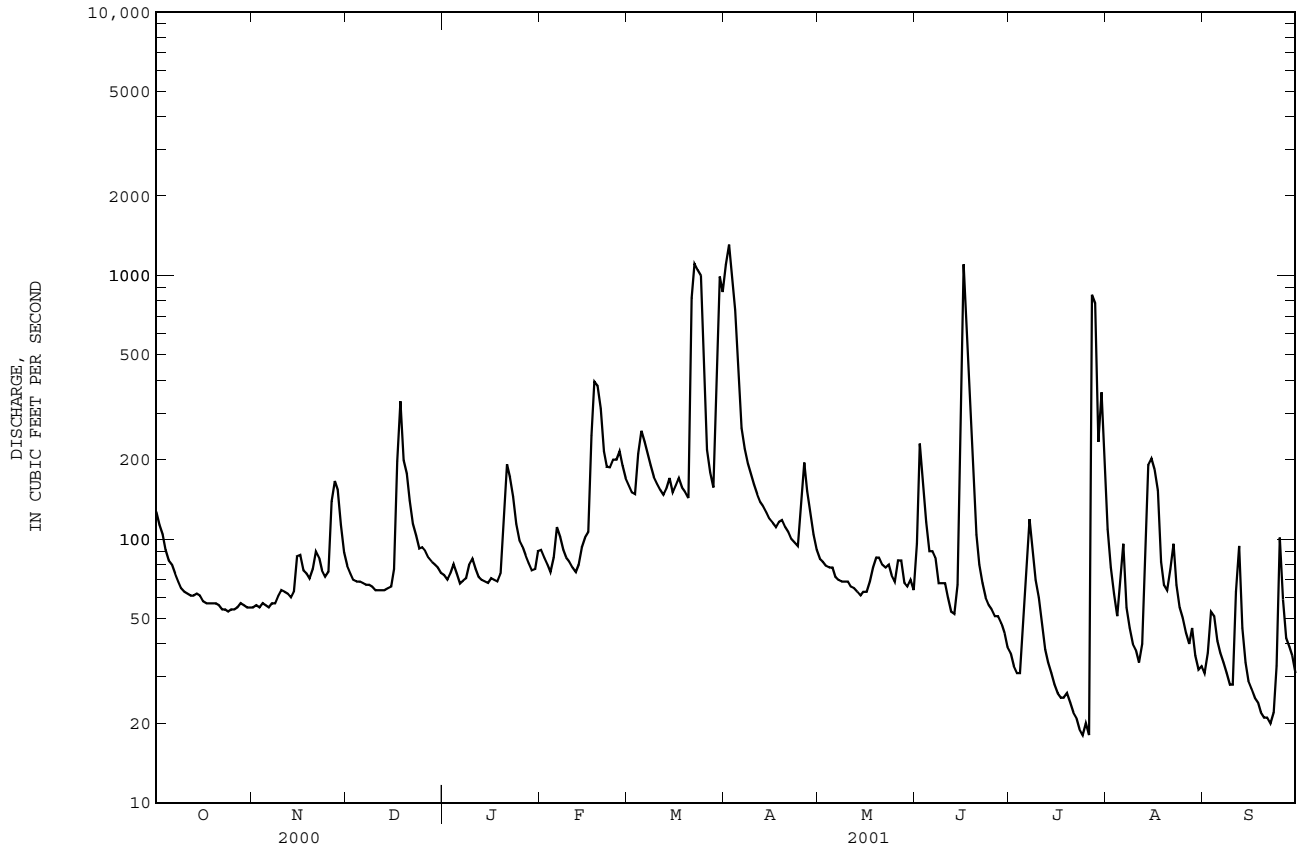
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

MEAN	93.3	115	148	242	281	305	220	146	125	105	89.1	131
MAX	420	436	382	500	605	718	774	466	468	488	326	2180
(WY)	1972	1986	1973	1987	1998	1998	1987	1984	1979	2000	1986	1999
MIN	9.65	27.8	37.3	59.5	92.6	77.6	72.9	47.5	26.4	12.3	10.2	4.90
(WY)	1971	1982	1966	1981	1968	1988	1981	1995	1981	1981	1993	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	70724		46791			
ANNUAL MEAN	193		128		167	
HIGHEST ANNUAL MEAN					290	1984
LOWEST ANNUAL MEAN					20.2	1963
HIGHEST DAILY MEAN	5650	Jul 25	1310	Apr 2	22000	Sep 17 1999
LOWEST DAILY MEAN	16	Jul 19	18	Jul 24	.60	Sep 25 1968
ANNUAL SEVEN-DAY MINIMUM	22	Jul 15	20	Jul 20	1.1	Sep 21 1968
MAXIMUM PEAK FLOW			1350	Jul 27	23000*	Sep 17 1999
MAXIMUM PEAK STAGE			10.60	Jul 27	21.30*	Sep 17 1999
INSTANTANEOUS LOW FLOW			17	Jul 26	.60	Sep 25 1968
ANNUAL RUNOFF (CFSM)	1.16		.77		1.00	
ANNUAL RUNOFF (INCHES)	15.85		10.49		13.63	
10 PERCENT EXCEEDS	336		210		346	
50 PERCENT EXCEEDS	117		76		93	
90 PERCENT EXCEEDS	54		34		24	

e Estimated.
* See REMARKS.

02082770 SWIFT CREEK AT HILLIARDSTON, NC--Continued



02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC

LOCATION.--Lat 36°11'08", 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 116.44 ft above sea level. Feb. 14, 1962, to Apr. 23, 1979, auxiliary nonrecording gage 3.6 mi downstream. 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 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. 23.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	118	51	72	e70	89	123	1250	72	60	27	37	15
2	106	51	66	e68	77	112	1070	67	183	25	29	16
3	98	52	62	e72	70	107	723	64	149	23	23	16
4	88	52	61	e78	65	160	382	59	86	23	20	16
5	81	53	62	e74	75	263	272	55	57	32	18	15
6	76	55	61	e68	143	271	218	51	572	42	17	15
7	71	55	61	e67	116	191	189	47	198	37	16	14
8	66	55	60	e68	92	146	171	45	161	29	14	12
9	61	57	59	82	81	124	153	44	87	26	13	12
10	59	61	56	86	76	110	138	43	58	25	12	14
11	59	63	58	75	75	100	123	42	46	24	16	16
12	58	63	62	69	69	93	114	40	41	22	30	14
13	57	57	60	67	80	95	111	39	41	20	54	24
14	57	62	59	65	115	104	107	37	47	18	49	17
15	56	84	61	67	131	99	101	34	306	17	99	13
16	55	88	93	69	124	134	94	33	1100	15	59	12
17	54	76	210	67	384	145	89	35	764	15	45	11
18	55	71	478	65	712	118	104	40	348	14	36	10
19	57	69	264	72	537	98	115	43	164	13	36	9.6
20	57	79	160	128	238	88	97	42	102	17	36	9.4
21	54	91	138	291	180	833	87	40	77	20	35	8.9
22	52	84	114	201	154	1280	81	65	64	18	35	8.5
23	51	75	103	129	159	1030	75	65	57	16	27	8.5
24	51	70	89	104	178	339	71	50	87	15	25	13
25	51	73	81	92	177	210	136	40	53	14	26	23
26	52	150	e79	82	190	166	241	49	46	13	26	22
27	53	208	e78	76	174	139	168	48	40	40	23	21
28	54	134	e76	73	141	121	116	47	37	88	20	17
29	54	99	e74	68	---	338	93	44	33	68	17	14
30	53	81	e73	70	---	1360	80	42	30	55	16	12
31	52	---	e71	89	---	1620	---	38	---	47	16	---
TOTAL	1966	2319	3101	2752	4702	10117	6769	1460	5094	858	925	428.9
MEAN	63.4	77.3	100	88.8	168	326	226	47.1	170	27.7	29.8	14.3
MAX	118	208	478	291	712	1620	1250	72	1100	88	99	24
MIN	51	51	56	65	65	88	71	33	30	13	12	8.5
CFSM	.36	.44	.57	.50	.95	1.84	1.27	.27	.96	.16	.17	.08
IN.	.41	.49	.65	.58	.99	2.13	1.42	.31	1.07	.18	.19	.09

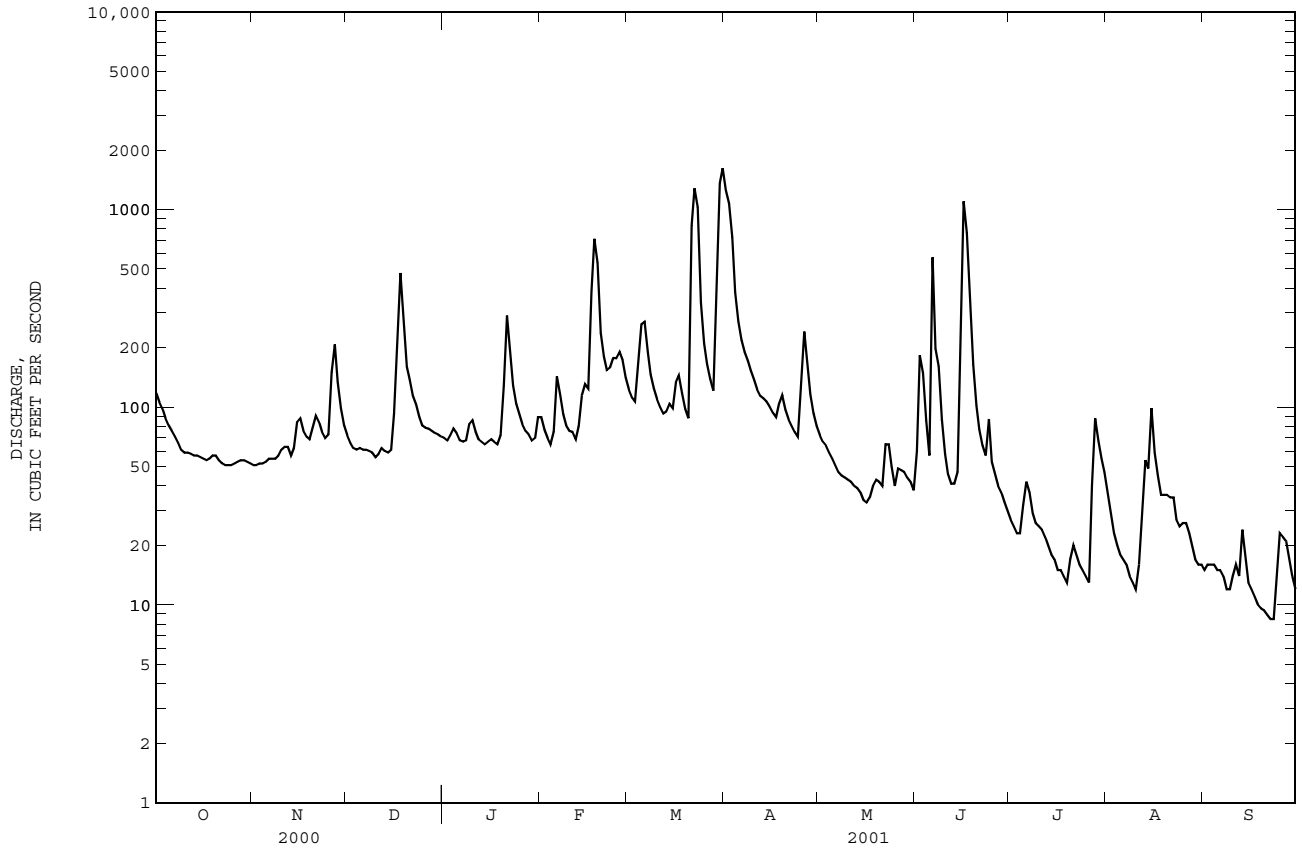
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2001, BY WATER YEAR (WY)

MEAN	104	119	153	257	327	339	227	136	100	90.1	77.2	103
MAX	982	860	482	570	742	873	720	550	300	602	330	1947
(WY)	1973	1986	1973	1962	1984	1998	1987	1984	1965	1975	1967	1999
MIN	3.78	10.2	24.9	37.6	83.4	83.0	56.8	35.7	15.1	9.58	4.21	2.34
(WY)	1971	1999	1995	1981	1991	1981	1967	1995	1986	1981	1993	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1960 - 2001	
ANNUAL TOTAL	70754		40491.9			
ANNUAL MEAN	193		111		169	
HIGHEST ANNUAL MEAN					327	1973
LOWEST ANNUAL MEAN					47.2	1981
HIGHEST DAILY MEAN	4460	Jul 25	1620	Mar 31	20000	Sep 17 1999
LOWEST DAILY MEAN	22	Jul 22	8.5	Sep 22	.78	Sep 4 1980
ANNUAL SEVEN-DAY MINIMUM	25	Jul 17	9.4	Sep 17	1.1	Sep 26 1968
MAXIMUM PEAK FLOW			1680	Mar 31	31000*	Sep 16 1999
MAXIMUM PEAK STAGE			12.38	Mar 31	30.80*	Sep 16 1999
INSTANTANEOUS LOW FLOW			8.4*	Sep 22	.72	Sep 5 1980
ANNUAL RUNOFF (CFSM)	1.09		.63		.95	
ANNUAL RUNOFF (INCHES)	14.87		8.51		12.95	
10 PERCENT EXCEEDS	397		185		356	
50 PERCENT EXCEEDS	109		65		79	
90 PERCENT EXCEEDS	44		16		15	

e Estimated.
* See REMARKS.

02082950 LITTLE FISHING CREEK NEAR WHITE OAK, NC--Continued



02083000 FISHING CREEK NEAR ENFIELD, NC

LOCATION.--Lat 36°09'03", 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 74.26 ft above sea level. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

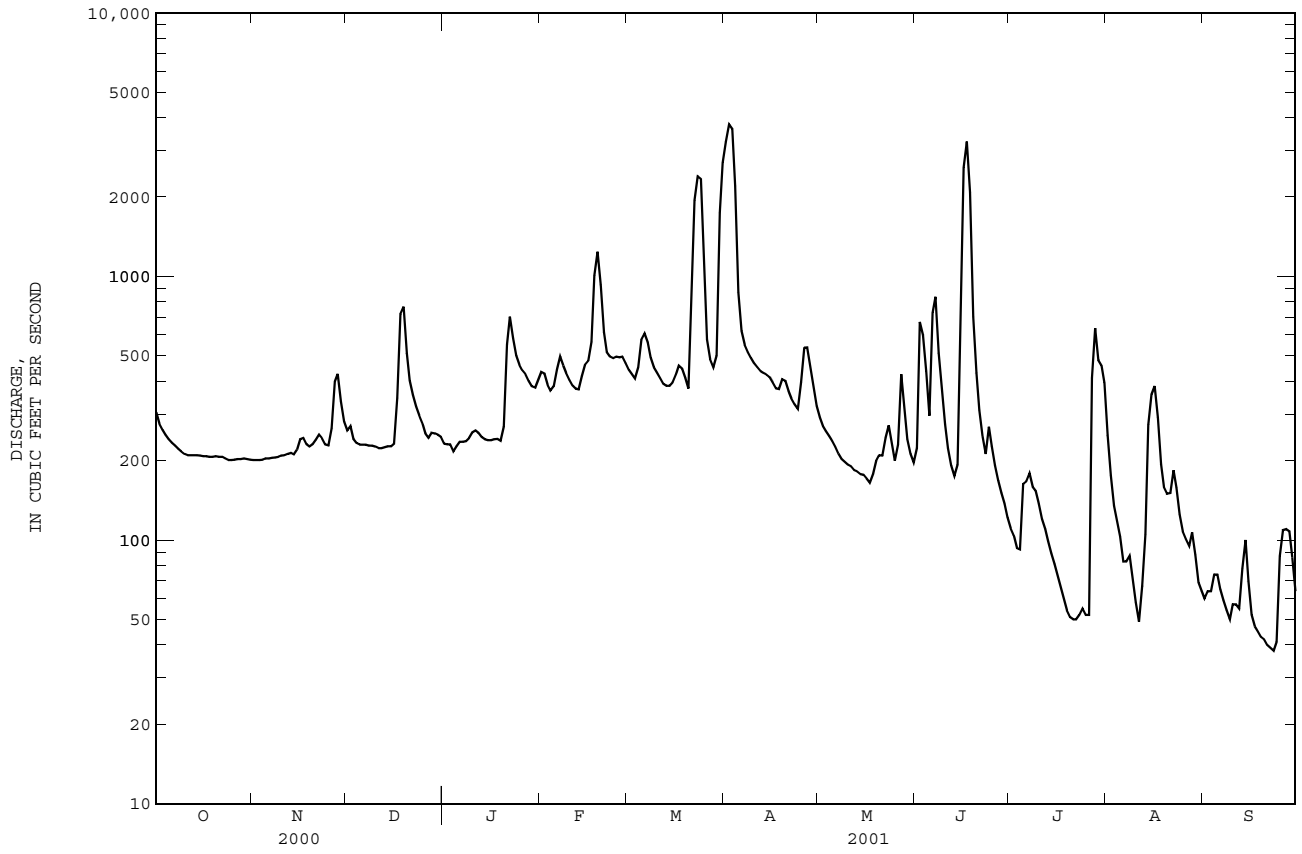
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	305	201	260	232	434	442	3250	291	223	111	250	60
2	276	201	270	231	428	425	3780	271	671	104	176	64
3	262	201	242	231	388	410	3630	259	599	93	135	64
4	251	202	233	217	369	451	2200	248	438	92	117	74
5	241	204	230	227	383	575	870	237	296	163	103	74
6	234	204	230	236	443	607	621	226	728	167	83	65
7	228	205	230	236	496	561	550	213	838	179	83	59
8	222	206	228	237	459	492	516	203	513	159	87	54
9	217	207	228	244	430	452	492	198	383	154	71	50
10	212	209	226	256	406	431	470	193	275	137	58	57
11	210	210	223	260	386	411	452	190	223	120	49	57
12	210	212	223	255	375	391	438	184	192	110	67	55
13	210	214	225	246	373	385	430	182	175	99	105	78
14	210	211	227	241	418	385	424	178	193	89	274	100
15	209	220	227	239	463	397	415	177	542	81	357	70
16	208	241	232	239	478	424	396	171	2590	73	384	52
17	208	244	345	241	564	459	376	165	3250	66	292	47
18	207	231	719	242	1010	447	374	178	2080	60	194	45
19	207	226	768	238	1240	413	407	200	702	54	159	43
20	208	231	512	269	929	375	401	210	432	51	150	42
21	207	240	402	552	615	784	367	209	311	50	151	40
22	207	251	355	703	516	1950	344	244	248	50	184	39
23	204	243	321	583	497	2400	327	272	212	52	158	38
24	201	231	297	500	490	2350	315	234	269	55	125	41
25	201	229	279	462	496	1180	397	200	227	52	108	87
26	202	265	254	440	494	578	537	230	192	52	101	109
27	203	399	244	425	497	486	538	425	168	412	95	110
28	203	427	255	401	470	453	451	311	151	637	107	108
29	204	336	254	383	---	500	378	241	137	481	88	86
30	203	281	251	378	---	1740	322	212	122	459	69	64
31	202	---	246	404	---	2700	---	197	---	395	64	---
TOTAL	6772	7182	9236	10048	14547	24054	24468	6949	17380	4857	4444	1932
MEAN	218	239	298	324	520	776	816	224	579	157	143	64.4
MAX	305	427	768	703	1240	2700	3780	425	3250	637	384	110
MIN	201	201	223	217	369	375	315	165	122	50	49	38
CFSM	.42	.46	.57	.62	.99	1.48	1.55	.43	1.10	.30	.27	.12
IN.	.48	.51	.65	.71	1.03	1.70	1.73	.49	1.23	.34	.31	.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2001, BY WATER YEAR (WY)

MEAN	271	330	476	720	866	899	690	430	318	304	320	321
MAX	2035	1948	1391	2303	2145	2158	2049	2174	1255	1483	1828	5122
(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	128	70.6	42.8	26.8	14.2
(WY)	1934	1934	1934	1934	1934	1981	1967	1995	1986	1981	1993	1980

02083000 FISHING CREEK NEAR ENFIELD, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1927 - 2001	
ANNUAL TOTAL	186056		131869			
ANNUAL MEAN	508		361		494	
HIGHEST ANNUAL MEAN					871	1984
LOWEST ANNUAL MEAN					148	1981
HIGHEST DAILY MEAN	8210	Jul 27	3780	Apr 2	29200	Sep 18 1999
LOWEST DAILY MEAN	201	Oct 24	38	Sep 23	6.9	Oct 5 1968
ANNUAL SEVEN-DAY MINIMUM	202	Oct 29	41	Sep 18	8.1	Sep 30 1968
MAXIMUM PEAK FLOW			3900	Apr 2	30100	Sep 18 1999
MAXIMUM PEAK STAGE			15.67	Apr 2	21.65	Sep 18 1999
INSTANTANEOUS LOW FLOW			38	Sep 23	NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	.97		.69		.94	
ANNUAL RUNOFF (INCHES)	13.16		9.33		12.75	
10 PERCENT EXCEEDS	809		551		1080	
50 PERCENT EXCEEDS	358		237		272	
90 PERCENT EXCEEDS	216		71		69	



02083500 TAR RIVER AT TARBORO, NC

LOCATION.--Lat 35°53'38", long 77°32'00",. Edgecombe County, Hydrologic Unit 03020103, near right bank on downstream end of pier 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.

WATER-DISCHARGE RECORDS

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 10.37 ft above sea level. 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. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. 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 4.3 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3270	504	1090	939	1160	1780	7380	1350	670	644	4750	399
2	2100	504	859	904	1160	1620	9210	1150	894	574	2910	397
3	1830	503	827	870	1140	1460	11400	1030	1790	505	1900	351
4	1610	503	830	839	1120	1590	13200	914	2870	485	1430	330
5	1370	503	800	833	1140	2440	15100	787	3340	517	1080	357
6	1190	495	779	808	1230	3080	15700	772	1890	629	837	358
7	1020	496	759	802	1040	3300	12800	677	2130	664	708	353
8	901	499	740	800	961	3190	8840	616	2560	703	639	322
9	800	502	723	820	948	2720	5500	574	3100	756	586	333
10	798	501	732	852	943	2200	3250	724	3360	716	546	357
11	738	503	789	869	886	1840	2510	596	2480	643	677	392
12	667	520	766	875	859	1590	2890	521	1620	594	825	365
13	668	548	732	873	848	1480	2610	546	1170	527	939	334
14	643	555	764	857	858	1390	2110	541	1030	483	1080	315
15	612	564	765	847	878	1340	1740	564	1060	442	2190	327
16	605	576	787	845	925	1440	1490	537	3970	410	2230	359
17	591	612	919	874	1180	1540	1370	503	8490	389	2010	328
18	584	664	1270	1040	1840	1560	1330	472	11000	360	1770	303
19	576	688	1940	1040	2820	1530	1280	455	12000	334	2700	282
20	566	719	2510	1050	3810	1440	1240	448	11400	320	2570	271
21	562	752	2610	1170	4210	2150	1220	472	8880	294	2070	260
22	554	750	2350	1320	3610	4630	1160	534	6010	299	1410	242
23	549	760	2040	1560	3040	6250	1060	541	2910	292	1020	235
24	531	749	1730	1660	2560	7180	1030	542	1490	289	805	252
25	525	766	1470	1630	2230	8100	1290	542	1180	295	716	477
26	517	859	1300	1540	2040	8770	1970	574	1030	297	624	546
27	510	1100	1170	1420	1960	9100	2190	564	921	2890	537	421
28	506	1360	1080	1320	1910	7060	2240	805	923	5110	497	413
29	500	2410	1020	1240	---	4180	1910	1030	918	5630	476	399
30	501	2190	994	1180	---	3990	1580	1680	767	6370	441	367
31	502	---	974	1150	---	6080	---	916	---	6660	418	---
TOTAL	26896	22655	36119	32827	47306	106020	136600	21977	101853	39121	41391	10445
MEAN	868	755	1165	1059	1690	3420	4553	709	3395	1262	1335	348
MAX	3270	2410	2610	1660	4210	9100	15700	1680	12000	6660	4750	546
MIN	500	495	723	800	848	1340	1030	448	670	289	418	235
CFSM	.40	.35	.53	.49	.77	1.57	2.09	.32	1.56	.58	.61	.16
IN.	.46	.39	.62	.56	.81	1.81	2.33	.37	1.74	.67	.71	.18

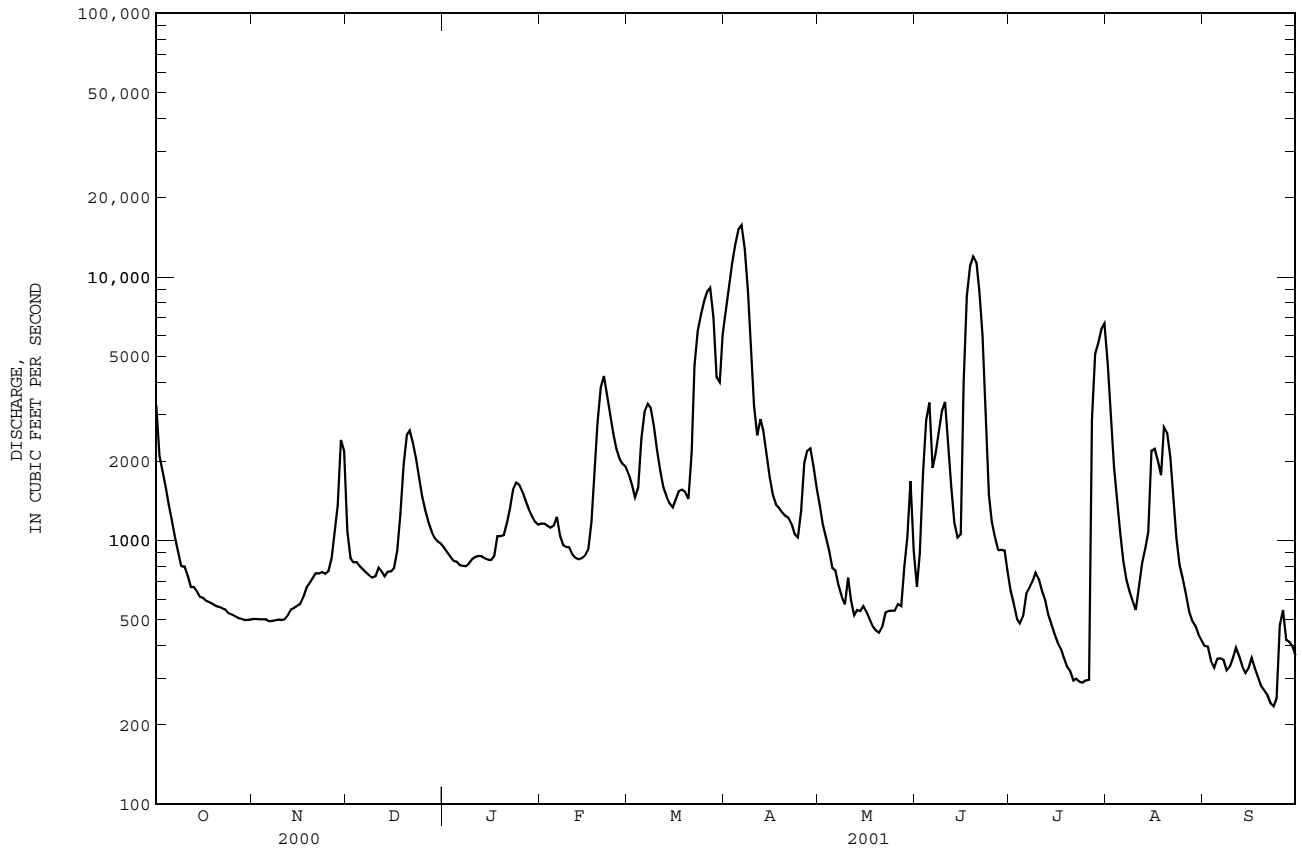
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1896 - 2001,@ BY WATER YEAR (WY)

MEAN	1142	1258	1992	3323	4289	4423	3208	1833	1349	1304	1423	1570
MAX	8896	5049	6195	10020	12920	11050	8553	8411	4873	6291	8260	26760
(WY)	2000	1948	1949	1936	1899	1989	1987	1958	1979	1975	1940	1999
MIN	56.7	115	191	253	497	1116	688	451	243	192	180	63.8
(WY)	1934	1934	1934	1934	1934	1981	1995	1995	1986	1986	1993	1968

02083500 TAR RIVER AT TARBORO, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1896 - 2001[@]	
ANNUAL TOTAL	783056		623210			
ANNUAL MEAN	2139		1707		2259	
HIGHEST ANNUAL MEAN					4057	1960
LOWEST ANNUAL MEAN					594	1981
HIGHEST DAILY MEAN	12800	Jul 30	15700	Apr 6	70500	Sep 19 1999
LOWEST DAILY MEAN	394	Jul 23	235	Sep 23	36	Oct 17 1933
ANNUAL SEVEN-DAY MINIMUM	462	Jul 10	264	Sep 18	40	Sep 26 1932
MAXIMUM PEAK FLOW			16000	Apr 6	70600	Sep 19 1999
MAXIMUM PEAK STAGE			22.74	Apr 6	41.51*	Sep 19 1999
INSTANTANEOUS LOW FLOW			201	Sep 24	36*	Oct 17 1933
ANNUAL RUNOFF (CFSM)	.98		.78		1.03	
ANNUAL RUNOFF (INCHES)	13.34		10.62		14.06	
10 PERCENT EXCEEDS	5160		3320		5630	
50 PERCENT EXCEEDS	1380		901		1220	
90 PERCENT EXCEEDS	518		406		284	

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



02083800 CONETOE CREEK NEAR BETHEL, NC

LOCATION.--Lat 35°46'33", long 77°27'45", Pitt County, Hydrologic Unit 03020103, on right bank 5 ft downstream of bridge on Secondary Road 1409, 5.5 mi downstream of Crisp Creek, and 5.5 mi west of Bethel.

DRAINAGE AREA.--78.1 mi^2.

PERIOD OF RECORD.--December 1956 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map. Telephone telemetry at station. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record also occurred Aug. 29 and Sept. 3, 1980. Maximum gage height for period of record, from flood mark.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of 1955 reached a stage of 16.7 ft, from information by local resident; discharge not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e55	e7.7	e22	e20	e19	e40	e256	e21	e22	e14	e34	e12
2	e58	e7.7	e23	e20	e19	e36	e324	e18	e43	e13	e26	e14
3	e55	e7.7	e23	e19	e18	e34	e247	e17	e53	e12	e20	e13
4	e48	e7.8	e24	e19	e18	e50	e212	e15	e42	e12	e16	e12
5	e40	e8.3	e24	e18	e28	e79	e174	e13	e33	e14	e14	e11
6	e33	e7.8	e27	e18	e38	e77	e152	e12	e50	e19	e12	e10
7	e27	e7.4	e29	e18	e31	e67	e136	e11	e55	e20	e11	e9.3
8	e22	e8.4	e32	e19	e29	e59	e116	e11	e32	e22	e9.3	e8.7
9	e18	e7.8	e32	e20	e26	e53	e100	e10	e24	e23	e8.3	e8.9
10	e16	e7.1	e28	e20	e24	e49	e81	e10	e16	e21	e7.5	e9.5
11	e15	e7.5	e27	e20	e22	e46	e70	e8.4	e13	e18	e8.0	e12
12	e14	e8.2	e24	e19	e21	e40	e70	e8.7	e10	e15	e13	e12
13	e14	e8.5	e22	e19	e22	e39	e53	e9.1	e11	e12	e22	e11
14	e13	e10	e23	e19	e24	e38	e42	e8.3	e22	e10	e36	e11
15	e12	e11	e27	e19	e25	e39	e35	e7.9	e99	e8.7	e50	e11
16	e11	e11	e28	e20	e27	e50	e31	e7.7	e500	e7.7	e36	e11
17	e11	e11	e40	e19	e60	e51	e28	e7.8	e639	e7.1	e35	e9.6
18	e11	e11	e52	e20	e82	e45	e32	e8.0	e514	e7.1	e42	e8.8
19	e10	e13	e46	e19	e63	e41	e28	e8.5	e344	e6.5	e77	e8.0
20	e10	e15	e42	e22	e58	e42	e24	e11	e170	e6.1	e59	e7.8
21	e9.6	e16	e40	e29	e47	e136	e23	e13	e102	e5.6	e36	e7.3
22	e8.9	e15	e39	e28	e51	e234	e20	e13	e80	e5.6	e24	e6.7
23	e8.6	e14	e38	e26	e73	e160	e18	e12	e65	e5.3	e18	e6.7
24	e8.5	e13	e34	e26	e66	e145	e18	e11	e55	e5.1	e22	e8.9
25	e8.7	e23	e31	e24	e54	e123	e29	e11	e52	e5.1	e20	e24
26	e8.8	e52	e27	e23	e51	e124	e40	e15	e42	e5.8	e14	e24
27	e8.6	e49	e25	e22	e46	e121	e33	e21	e30	e64	e11	e16
28	e8.6	e36	e24	e21	e43	e108	e31	e27	e23	e70	e11	e14
29	e8.2	e36	e23	e19	---	e108	e26	e26	e18	e50	e11	e11
30	e7.8	e28	e22	e19	---	e179	e23	e27	e16	e65	e11	e10
31	e7.7	---	e21	e19	---	e195	---	e18	---	e45	e11	---
TOTAL	587.0	465.9	919	643	1085	2608	2472	417.4	3175	594.7	725.1	339.2
MEAN	18.9	15.5	29.6	20.7	38.8	84.1	82.4	13.5	106	19.2	23.4	11.3
MAX	58	52	52	29	82	234	324	27	639	70	77	24
MIN	7.7	7.1	21	18	18	34	18	7.7	10	5.1	7.5	6.7
CFSM	.24	.20	.38	.27	.50	1.08	1.06	.17	1.36	.25	.30	.14
IN.	.28	.22	.44	.31	.52	1.24	1.18	.20	1.51	.28	.35	.16

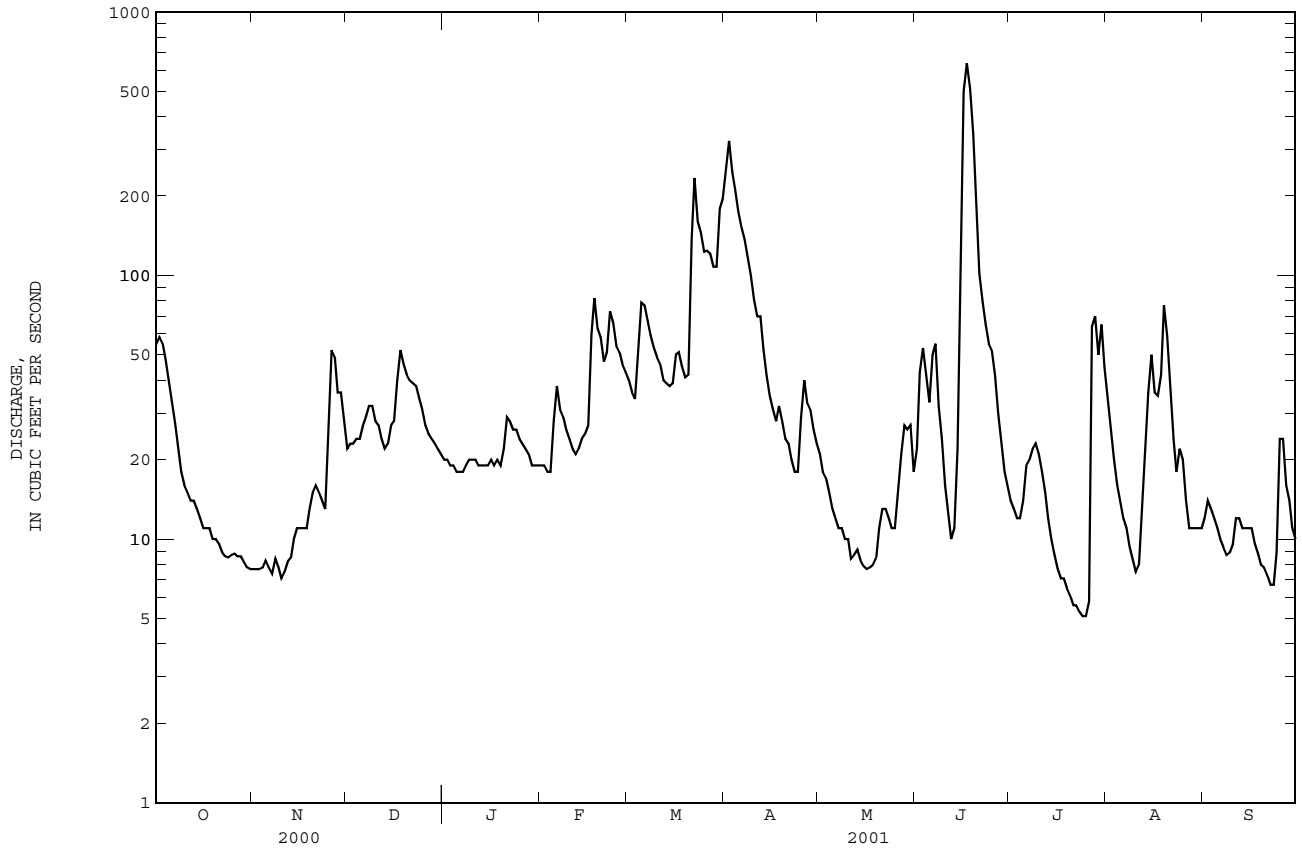
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2001, BY WATER YEAR (WY)

MEAN	52.5	35.3	59.2	119	150	151	91.8	57.4	42.3	35.8	63.8	86.1
MAX	462	181	218	296	327	282	282	251	274	210	452	2118
(WY)	1972	1978	1958	1978	1960	1983	1959	1978	1979	1962	1967	1999
MIN	2.82	3.14	3.77	9.96	22.5	17.5	13.2	9.91	3.80	3.16	1.32	2.67
(WY)	1979	1987	1969	1981	1981	1981	1981	1981	1994	1993	1993	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1957 - 2001	
ANNUAL TOTAL	21558.5		14031.3			
ANNUAL MEAN	58.9		38.4		79.7	
HIGHEST ANNUAL MEAN					230	1999
LOWEST ANNUAL MEAN					12.0	1981
HIGHEST DAILY MEAN	650	Sep 4	639	Jun 17	15000	Sep 18 1999
LOWEST DAILY MEAN	2.1	Jul 24	5.1	Jul 24	.74	Aug 25 1993
ANNUAL SEVEN-DAY MINIMUM	6.8	Jul 19	5.5	Jul 20	.79	Aug 21 1993
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			12.35	Jun 19	19.79*	Sep 18 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.40*	Aug 28 1980
ANNUAL RUNOFF (CFSM)	.75		.49		1.02	
ANNUAL RUNOFF (INCHES)	10.27		6.68		13.86	
10 PERCENT EXCEEDS	114		70		178	
50 PERCENT EXCEEDS	34		21		32	
90 PERCENT EXCEEDS	8.6		8.3		5.2	

e Estimated.
* See REMARKS.

02083800 CONETOE CREEK NEAR BETHEL, NC--Continued



02084000 TAR RIVER AT GREENVILLE, NC.

LOCATION.--Lat 35°37'00", long 77°22''30", Pitt County, Hydrologic Unit 03020103, on right bank 600 ft downstream of State Highway 11, 800 ft downstream from railroad bridge, and 21 mi upstream from Pamlico River at Washington.

DRAINAGE AREA.--2,620 mi^2.

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 2.36 ft below sea level. Satellite telemetry at station.

REMARKS.--Records fair except those during periods of tidal affects, Oct. 28 to Nov. 18 and Sept. 15-24, 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e6500	481	1770	992	1240	2150	6150	1840	1140	1070	6860	554
2	e4500	480	1080	976	1240	1970	7600	1600	1210	858	5720	517
3	e2700	475	939	908	1210	1830	9290	1390	1740	703	3430	505
4	2160	485	892	881	1220	1830	10900	1220	2830	681	2260	458
5	e1800	477	909	884	1220	2430	12300	1120	3580	1130	1670	387
6	e1600	499	899	866	1350	3260	13200	819	3190	846	1280	473
7	e1300	486	860	851	1370	3720	13600	891	2380	914	1020	438
8	e1200	478	887	874	1210	3770	13100	712	2600	1010	841	417
9	e1100	500	875	888	1110	3420	11400	654	3040	1070	714	427
10	e910	502	884	890	1110	2870	8330	733	3470	1030	656	442
11	894	454	866	949	1080	2350	4740	818	3350	1030	649	479
12	797	466	947	958	1070	2030	3190	665	2470	754	1080	469
13	757	517	827	961	1010	1830	3190	577	1700	748	1530	436
14	748	578	907	967	1010	1700	2740	587	1320	638	1660	440
15	698	536	888	948	1040	1650	2370	593	1490	585	2280	314
16	653	577	919	950	1100	1740	2010	539	2600	535	2870	397
17	635	608	1020	953	1260	1850	1750	588	5440	476	2730	399
18	655	625	1140	1060	1780	1930	1760	530	7900	446	2370	396
19	606	675	1660	1130	2480	1900	1630	476	10500	410	2660	301
20	603	758	2280	1160	3430	1790	1600	491	11900	351	3270	366
21	575	819	2710	1200	4180	2310	1570	531	12000	305	3130	300
22	558	768	2590	1330	4270	3980	1540	557	11000	283	2550	305
23	552	785	2310	1520	3790	5330	1460	573	8780	344	1930	279
24	542	788	1980	1690	3330	6420	1360	559	4550	375	1530	316
25	539	734	1690	1750	2840	7580	1410	624	2230	326	1200	486
26	530	985	1460	1660	2500	8520	1910	644	1610	366	1020	753
27	512	1140	1300	1570	2390	9130	2460	714	1430	926	880	696
28	483	1400	1200	1450	2290	9480	2670	919	1370	3970	826	627
29	506	1760	1110	1380	---	8810	2510	1260	1330	5190	716	584
30	478	2540	1080	1300	---	6490	2170	1580	1240	5860	653	550
31	473	---	1030	1220	---	5520	---	1860	---	6610	620	---
TOTAL	36564	22376	39909	35116	53130	119590	149910	26664	119390	39840	60605	13511
MEAN	1179	746	1287	1133	1898	3858	4997	860	3980	1285	1955	450
MAX	6500	2540	2710	1750	4270	9480	13600	1860	12000	6610	6860	753
MIN	473	454	827	851	1010	1650	1360	476	1140	283	620	279
CFSM	.45	.28	.49	.43	.72	1.47	1.91	.33	1.52	.49	.75	.17
IN.	.52	.32	.57	.50	.75	1.70	2.13	.38	1.70	.57	.86	.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

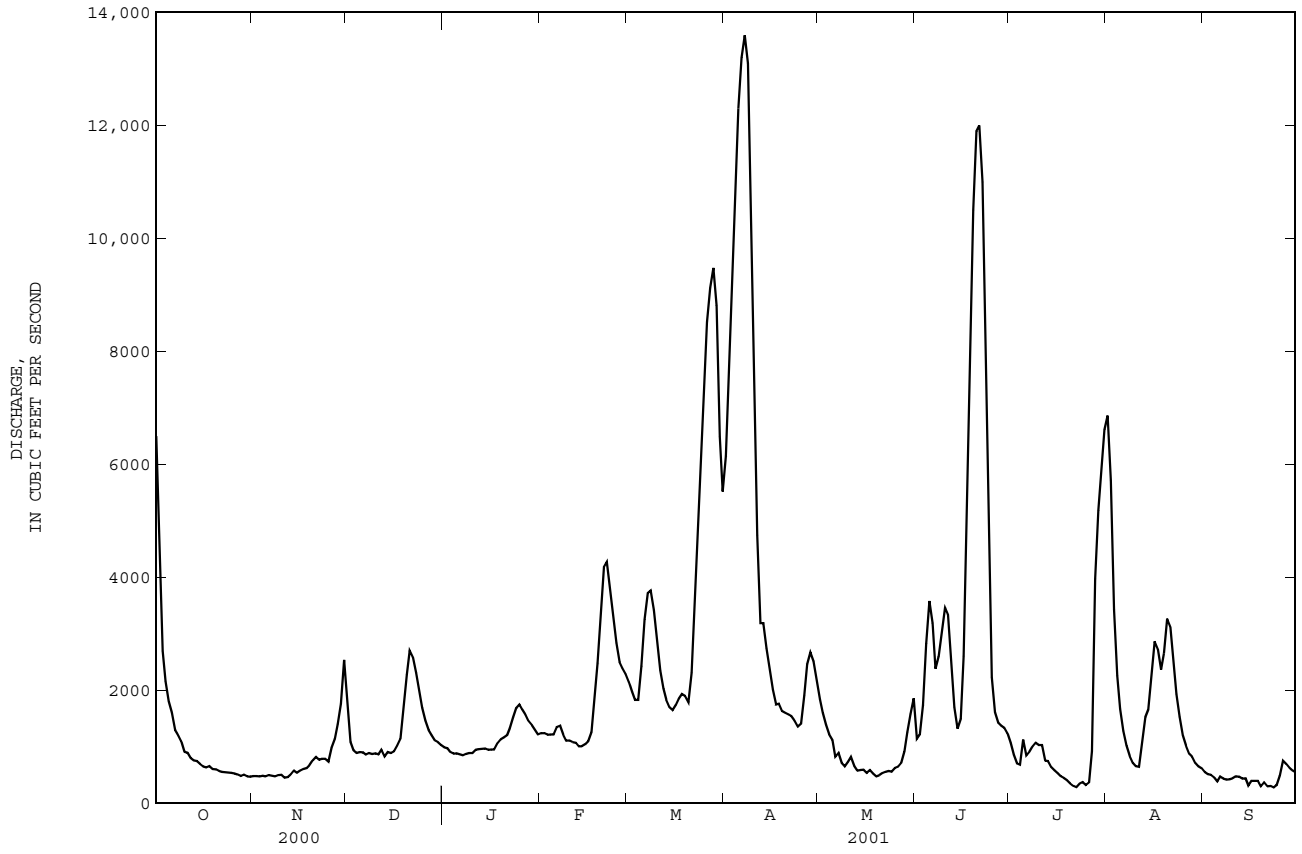
MEAN	3392	1015	1393	4097	6091	5261	3097	1598	1486	919	1536	6996
MAX	11690	2232	1941	6167	13280	12020	4997	3377	3980	1763	4352	29850
(WY)	2000	2000	2000	1999	1998	1998	2001	1997	2001	2000	2000	1999
MIN	294	325	911	1133	1898	2563	1643	860	321	279	287	450
(WY)	1999	1999	1999	2001	2001	2000	1999	2001	1999	1999	1999	2001

02084000 TAR RIVER AT GREENVILLE, NC.--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	905698		716605			
ANNUAL MEAN	2475		1963		3170	
HIGHEST ANNUAL MEAN					3833	1999
LOWEST ANNUAL MEAN					1963	2001
HIGHEST DAILY MEAN	11600	Aug 1	13600	Apr 7	72300	Sep 21 1999
LOWEST DAILY MEAN	427	Jul 15	279	Sep 23	30	Aug 22 1999
ANNUAL SEVEN-DAY MINIMUM	478	Oct 30	323	Sep 18	104	Aug 7 1999
MAXIMUM PEAK FLOW			13800	Apr 7	73000	Sep 21 1999
MAXIMUM PEAK STAGE			15.19	Apr 7	29.72	Sep 21 1999
INSTANTANEOUS LOW FLOW			-235	Jul 21	-851	Aug 22 1999
ANNUAL RUNOFF (CFSM)	.94		.75		1.21	
ANNUAL RUNOFF (INCHES)	12.86		10.17		16.44	
10 PERCENT EXCEEDS	6050		4220		6890	
50 PERCENT EXCEEDS	1660		1110		1220	
90 PERCENT EXCEEDS	530		478		320	

e Estimated.

Note. -- Negative values indicate reverse flow.



02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC

LOCATION.--Lat 35°33'47", long 77°13'43", 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 sea level. Satellite telemetry at station.

REMARKS.--Records poor. Maximum gage height for period of record from flood mark.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.9	e1.0	17	10	12	21	51	1.8	3.1	.24	15	16
2	3.5	e1.0	18	9.7	13	18	51	1.3	9.5	.18	7.0	15
3	2.4	e.90	22	9.6	13	19	44	1.1	15	.20	4.0	13
4	2.1	e.90	26	10	13	47	32	.97	9.0	.31	2.2	12
5	e2.0	e1.1	26	9.5	16	86	24	.71	5.4	.51	1.5	11
6	e2.0	e1.2	29	9.7	19	54	18	.67	5.1	.35	1.4	10
7	e2.0	e1.6	30	8.6	18	36	15	.44	3.2	.33	1.4	9.3
8	e1.9	e1.7	34	8.4	17	28	12	.41	2.3	.38	1.3	8.2
9	e1.9	e1.8	39	9.5	16	23	10	.33	1.8	.43	1.1	7.4
10	e1.8	e2.1	39	9.8	16	19	8.9	.22	1.1	.37	.97	7.1
11	e1.8	e2.5	37	9.9	15	16	7.5	.13	.61	.31	.72	7.2
12	e1.8	e2.9	38	11	14	14	6.3	.08	.40	.26	.92	9.0
13	e1.7	e3.1	36	12	16	14	6.9	4.3	.23	.24	3.0	9.5
14	e1.7	e3.8	35	12	18	17	5.6	9.2	10	.22	810	8.5
15	e1.6	e4.0	38	11	19	21	4.8	4.9	435	.12	407	7.7
16	e1.6	e4.8	34	12	18	25	4.5	3.1	398	.08	94	7.1
17	e1.5	e5.5	32	13	27	25	4.0	2.0	266	.03	30	6.2
18	e1.5	e6.0	31	12	38	22	5.0	1.5	96	.01	14	5.5
19	e1.4	e7.0	26	11	29	19	4.9	1.3	20	e.01	12	4.9
20	e1.4	e8.0	22	19	24	19	4.8	2.0	7.0	.02	19	4.5
21	e1.3	e9.0	19	17	22	282	4.6	3.8	4.0	.01	88	4.3
22	e1.3	e10	18	17	29	318	4.4	2.0	1.6	e.01	56	4.0
23	e1.2	e12	15	15	68	141	3.8	1.2	.95	.37	20	3.6
24	e1.2	e15	14	13	51	72	3.6	.97	1.1	.53	12	4.0
25	e1.1	e17	12	13	37	42	4.2	.75	1.2	.34	11	7.0
26	e1.1	e20	11	11	32	29	5.0	1.1	.96	.36	8.5	6.5
27	e1.1	e22	11	10	27	22	4.1	2.6	.70	1.7	5.6	6.0
28	e1.0	e26	11	9.5	24	17	3.9	2.0	.58	3.3	5.5	5.8
29	e1.0	e21	11	8.7	---	18	3.2	4.2	.41	3.1	6.7	5.7
30	e1.0	e19	12	8.7	---	55	2.4	4.7	.30	75	9.6	5.4
31	e1.0	---	13	11	---	80	---	3.5	---	66	16	---
TOTAL	53.8	231.90	756	351.6	661	1619	359.4	63.28	1300.54	155.32	1665.41	231.4
MEAN	1.74	7.73	24.4	11.3	23.6	52.2	12.0	2.04	43.4	5.01	53.7	7.71
MAX	5.9	26	39	19	68	318	51	9.2	435	75	810	16
MIN	1.0	.90	11	8.4	12	14	2.4	.08	.23	.01	.72	3.6
CFSM	.04	.17	.54	.25	.52	1.16	.27	.05	.96	.11	1.19	.17
IN.	.04	.19	.62	.29	.55	1.34	.30	.05	1.08	.13	1.38	.19

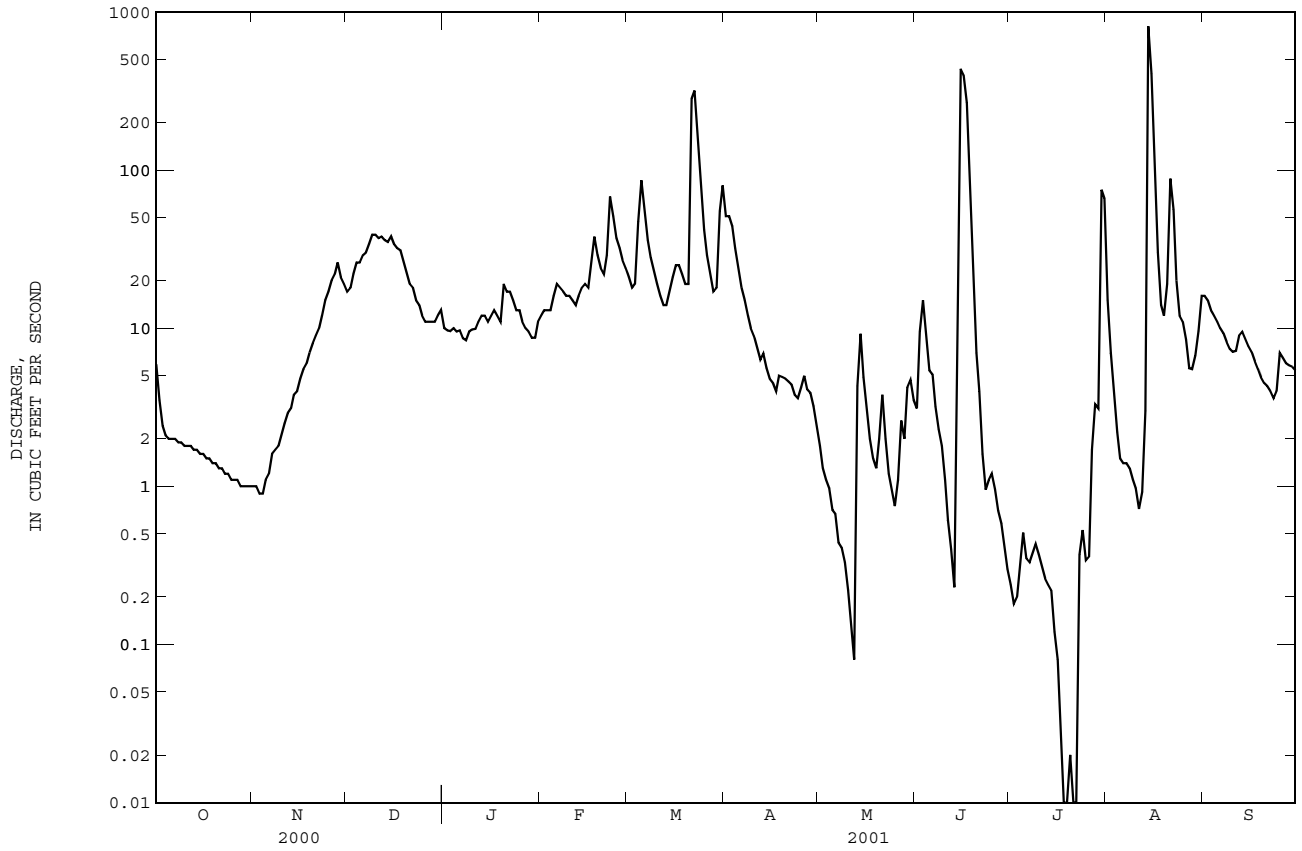
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2001,@ BY WATER YEAR (WY)

MEAN	33.0	32.4	49.0	99.9	87.8	95.7	53.1	29.5	33.5	18.7	40.2	99.6
MAX	274	219	94.2	244	245	201	144	139	192	120	238	1188
(WY)	2000	1978	1978	1978	1998	1980	1978	1978	1995	1996	1992	1999
MIN	.27	1.23	4.57	11.3	19.7	18.0	4.49	.65	.001	.89	.000	.22
(WY)	1977	1982	1982	2001	1977	1981	1981	1985	1985	1998	1976	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1976 - 2001@	
ANNUAL TOTAL	17707.24		7448.65			
ANNUAL MEAN	48.4		20.4		55.5	
HIGHEST ANNUAL MEAN					129	1999
LOWEST ANNUAL MEAN					20.4	2001
HIGHEST DAILY MEAN	793	Mar 17	810	Aug 14	4560	Sep 18 1999
LOWEST DAILY MEAN	.24	Jun 15	.01	Jul 18	.00	Jul 19 1976
ANNUAL SEVEN-DAY MINIMUM	.49	May 14	.02	Jul 16	.00	Jul 19 1976
MAXIMUM PEAK FLOW			1170	Aug 14	NOT DETERMINED	
MAXIMUM PEAK STAGE			10.24	Aug 14	21.46*	Sep 18 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00	Jul 19 1976
ANNUAL RUNOFF (CFSM)	1.08		.45		1.23	
ANNUAL RUNOFF (INCHES)	14.64		6.16		16.76	
10 PERCENT EXCEEDS	142		34		123	
50 PERCENT EXCEEDS	5.8		7.5		12	
90 PERCENT EXCEEDS	.88		.56		.48	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

02084160 CHICOD CREEK AT SECONDARY ROAD 1760 NEAR SIMPSON, NC--Continued



02084472 PAMLICO RIVER AT WASHINGTON, NC

LOCATION.--Lat 35°32'33", 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, approximately.

PERIOD OF RECORD.--October 1999 to current year. Daily mean elevations published March 1988 to May 1993.

REVISED RECORDS.--WDR NC-00-1B: Drainage area.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated 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. The published 24.0 hour 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8260	-638	1920	1040	985	1910	e6540	2500	2190	e2010	e7710	e530
2	e6000	-992	1260	1610	1950	3020	e6150	1850	1780	e1600	e6510	153
3	5460	-501	1310	190	678	2430	8470	1640	1950	1130	4620	612
4	2890	-503	29	823	2000	2770	8640	1630	2490	581	2750	e500
5	2640	-722	781	1940	1710	3120	10400	1210	2490	e1780	1880	-781
6	2500	e-160	1270	469	1840	5570	e12600	-464	4560	-109	1320	766
7	1160	104	909	1100	1860	1360	11700	2030	2180	1670	1010	-168
8	1590	-266	1250	1260	e2500	4370	13200	488	2920	1590	e260	130
9	1530	123	1120	1590	1450	3840	11900	766	3130	344	e-50	719
10	1220	1180	1230	1490	592	3600	7790	1210	3770	1370	e720	146
11	e2030	-268	568	835	1610	3760	8490	1080	3940	1300	e630	45
12	e880	-824	1350	1180	2300	2140	4360	1060	3140	-776	1900	e-400
13	137	e200	808	462	1390	e1800	2750	-742	1720	1760	2460	257
14	425	555	1980	617	1420	1140	2610	-63	1750	e420	e2700	723
15	-126	-279	671	565	1230	3200	3200	1140	4430	1060	3150	-949
16	206	170	835	835	e1720	1750	255	e-210	4680	801	3360	-637
17	20	563	3400	455	1150	e2000	3330	1080	8250	797	3190	e-35
18	-429	-329	477	1520	2040	2350	1350	996	10500	471	3040	-149
19	e-650	-497	2760	e1000	2850	2500	1470	-870	12200	e620	e3000	533
20	-127	1020	2180	e2770	4280	-546	1870	2340	13100	e1530	3760	961
21	-519	1750	3570	e1440	e4080	8150	e2490	e1410	12700	e680	3360	-337
22	-57	315	4680	1060	5880	4810	1820	580	12500	383	2260	-184
23	501	760	1710	1960	3660	5790	1400	e1270	e1120	712	3130	4.0
24	-533	727	3070	1450	4540	4360	e1180	-88	e7250	e200	2130	982
25	e360	-585	2280	2650	4710	e6000	730	1880	2770	-15	e1530	167
26	-20	2920	1960	915	e2100	e10000	900	1010	3030	e-160	e1110	-101
27	-423	1300	1580	1870	3130	e9000	e2320	e500	2110	140	1840	e35
28	-284	1660	1930	1480	2860	8590	1580	1170	2130	e3050	976	e110
29	-290	1570	557	1360	---	8250	e3020	735	1550	e5120	192	167
30	-593	2800	2250	2150	---	8720	2640	268	2060	4930	966	-531
31	1.9	---	1500	e1480	---	e5950	---	3170	---	6180	789	---
TOTAL	33759.9	11153	51195	39566	66515	131704	145155	30576	138390	41169	72203	3268.0
MEAN	1089	372	1651	1276	2376	4249	4838	986	4613	1328	2329	109
MAX	8260	2920	4680	2770	5880	10000	13200	3170	13100	6180	7710	982
MIN	-650	-992	29	190	592	-546	255	-870	1120	-776	-50	-949

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

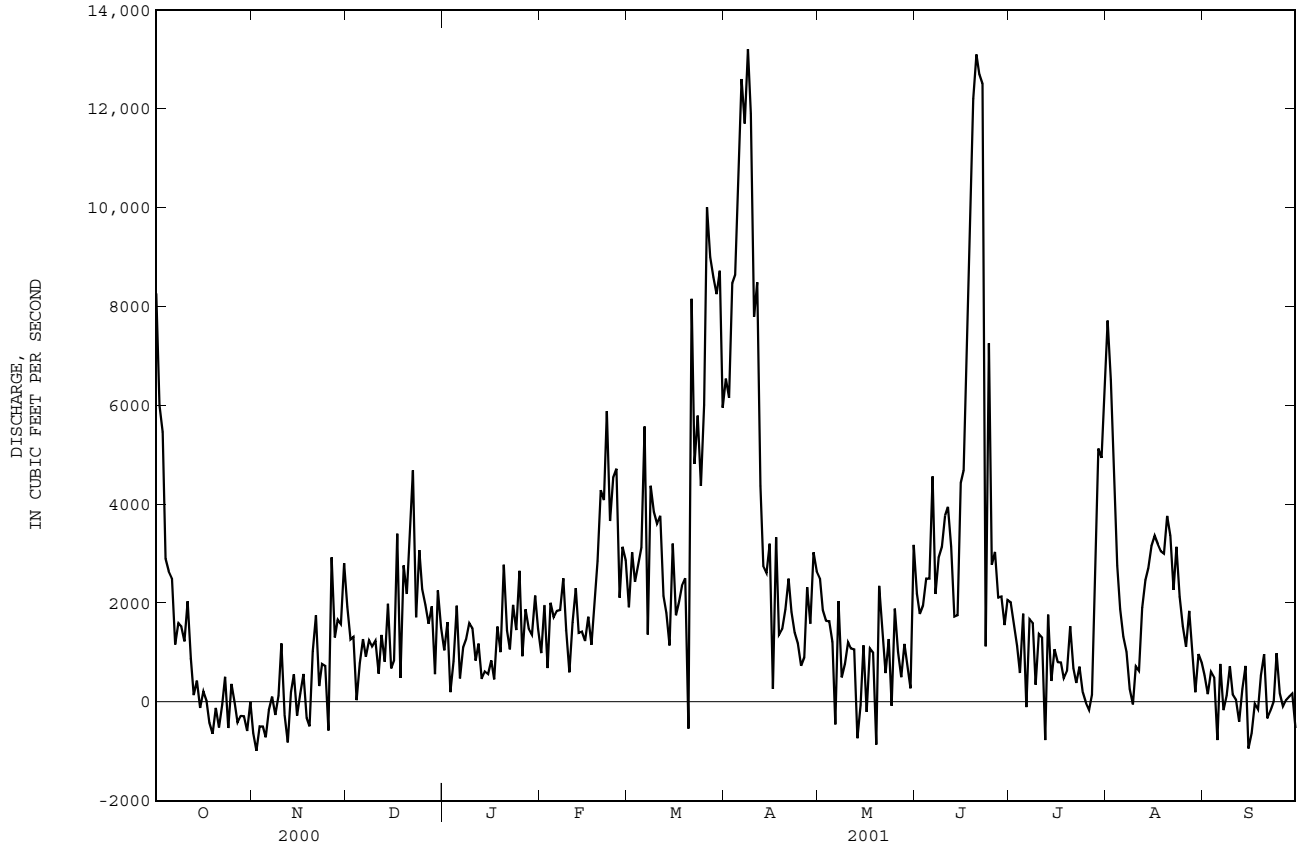
MEAN	7473	1490	1938	2599	4544	3650	3936	1347	2993	1657	3586	2373
MAX	13860	2608	2225	3921	6639	4249	4838	1707	4613	1985	4843	4638
(WY)	2000	2000	2000	2000	2000	2001	2001	2000	2001	2000	2000	2000
MIN	1089	372	1651	1276	2376	3051	3034	986	1374	1328	2329	109
(WY)	2001	2001	2001	2001	2001	2000	2000	2001	2000	2001	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	1040742.9		764653.9			
ANNUAL MEAN	2844		2095		3127	
HIGHEST ANNUAL MEAN					4157	2000
LOWEST ANNUAL MEAN					2095	2001
HIGHEST DAILY MEAN	11000	Aug 3	13200	Apr 8	30000	Oct 1 1999
LOWEST DAILY MEAN	-992	Nov 2	-992	Nov 2	-992	Nov 2 2000
ANNUAL SEVEN-DAY MINIMUM	-564	Oct 30	-564	Oct 30	-564	Oct 30 2000
MAXIMUM PEAK FLOW			23500	Mar 21	23500	Mar 21 2001
MAXIMUM PEAK STAGE			4.63	Mar 21	4.63	Mar 21 2001
INSTANTANEOUS LOW FLOW			-31100	Mar 21	-31100	Mar 21 2001
10 PERCENT EXCEEDS	6910		5010		7430	
50 PERCENT EXCEEDS	2100		1450		2000	
90 PERCENT EXCEEDS	160		-153		200	

e Estimated.

Note. -- Negative values indicate reverse flow.

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued



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 dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%. Daily records of salinity and water temperature for October 1961 to September 1967 are available in the files of the USGS District Office, Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	11.3, September 5, 1999	<0.1, on many days during the period
SALINITY (BOTTOM), ppt	12.1, September 30, 2001	<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	5.3, September 11, 12, 13, 1999
WATER TEMPERATURE (TOP), °C	34.1, July 31, 1999	0.6, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	32.6, July 31, 1999	0.6, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	15.0, January 17, 2001	<1.0 on many days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	12.5, January 17, 2001	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	11.2, September 30	<0.1, on many days during the year
SALINITY (BOTTOM), ppt	12.1, September 30	<0.1, on many days during the year
pH (TOP), standard units	8.9, May 24, 25	5.4, August 19
pH (BOTTOM), standard units	8.2, May 23, 25	5.9, June 19
WATER TEMPERATURE (TOP), °C	31.8, August 9, 10	1.6, January 3
WATER TEMPERATURE (BOTTOM), °C	30.5, August 10	3.2, January 2
DISSOLVED OXYGEN (TOP), mg/L	15.0, January 17	<1.0, on several days during the year
DISSOLVED OXYGEN (BOTTOM), mg/L	12.5, January 17	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	151, September 7, 8	<10, on several days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	132, May 26	<10, on many days during the year

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.06	.05	.06	6.7	3.4	5.2	1.7	.09	.42	6.0	.92	2.5
2	.07	.06	.07	7.9	3.5	6.1	6.0	.12	2.4	7.5	.54	2.0
3	.08	.07	.08	7.8	3.3	6.3	7.0	.55	2.6	9.3	.85	5.2
4	.10	.08	.09	6.9	3.0	5.6	8.4	.72	5.7	8.6	.66	3.4
5	.11	.10	.10	7.1	3.8	5.8	6.3	1.1	3.6	8.1	1.2	2.6
6	.12	.11	.12	6.8	3.8	5.5	6.3	1.4	3.1	8.1	1.3	2.9
7	1.1	.12	.36	7.8	3.4	5.7	6.1	.79	2.9	6.5	.76	2.5
8	3.2	.21	.99	6.4	2.6	4.6	4.9	.78	1.9	7.3	.90	3.0
9	3.1	.46	1.3	5.2	2.6	3.6	7.9	.97	3.5	8.7	1.3	4.1
10	3.7	.65	1.3	4.1	1.7	3.0	9.7	.88	4.8	6.2	1.4	3.6
11	4.0	.95	2.1	4.5	2.1	3.1	9.5	2.1	5.7	5.7	1.3	3.4
12	5.7	.98	2.9	6.2	2.5	4.4	6.5	1.3	2.8	7.3	1.4	3.6
13	6.8	1.1	3.7	5.5	2.3	4.0	6.6	1.7	4.5	10.7	1.5	5.7
14	6.8	1.5	3.9	4.7	1.7	2.9	6.1	.78	2.1	10.8	1.6	6.5
15	5.2	1.5	3.4	6.4	1.9	3.9	6.5	.98	3.5	9.3	1.1	4.3
16	6.8	1.9	4.3	5.1	2.1	4.1	7.3	.52	2.4	10.6	1.1	4.7
17	7.5	2.2	4.9	5.5	1.4	2.9	3.3	.07	1.1	9.1	2.6	5.2
18	7.6	1.9	4.6	7.2	2.6	4.9	1.4	.13	.52	6.4	1.4	3.6
19	8.5	2.9	6.3	9.3	1.8	6.2	1.8	.13	.30	6.5	.84	2.5
20	8.5	2.3	6.4	6.2	2.3	3.6	.99	.06	.23	3.7	.22	1.2
21	8.2	2.0	5.6	6.5	1.4	2.8	.16	.06	.07	3.1	.10	1.3
22	7.4	2.5	5.3	4.9	1.7	2.6	.12	.04	.06	4.7	.73	2.3
23	9.0	2.6	5.9	5.1	1.2	3.0	.54	.04	.13	7.5	.34	1.8
24	9.4	3.8	6.6	3.6	1.6	2.6	.07	.03	.04	8.5	.47	4.0
25	9.4	3.3	6.5	4.7	1.2	3.0	.70	.03	.22	4.5	.68	1.3
26	8.9	3.3	6.3	3.6	.41	1.0	6.3	.15	1.4	8.3	.57	4.2
27	9.4	3.4	7.0	4.7	.29	1.9	5.6	.23	1.5	3.3	.59	1.2
28	9.4	3.1	7.4	4.3	.34	1.6	7.9	.15	2.2	8.8	.70	3.5
29	8.2	4.0	6.3	4.0	.25	1.5	9.9	.98	4.7	6.5	.82	2.7
30	7.6	3.4	5.9	2.4	.08	.60	9.2	.83	2.8	1.2	.44	.76
31	6.7	3.6	5.2	---	---	---	4.4	.89	2.2	1.6	.20	.52
MONTH	9.4	.05	3.7	9.3	.08	3.7	9.9	.03	2.2	10.8	.10	3.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	4.9	.34	1.3	.59	.04	.13	.04	.03	.03	.04	.04	.04
2	4.8	.38	1.5	.32	.04	.05	.04	.03	.03	.05	.04	.04
3	6.4	.44	3.2	1.7	.05	.28	.03	.03	.03	.05	.04	.05
4	5.3	.96	2.2	1.4	.05	.35	.03	.03	.03	.05	.04	.04
5	2.9	.25	1.1	.76	.04	.16	.03	.02	.03	.05	.04	.04
6	2.7	.45	1.0	.43	.04	.05	.03	.02	.02	.05	.04	.05
7	3.5	.27	1.2	.06	.04	.05	.02	.02	.02	.05	.04	.04
8	1.6	.12	.65	.04	.04	.04	.02	.02	.02	.10	.04	.05
9	.74	.08	.26	.10	.04	.04	.03	.02	.03	.26	.04	.08
10	.87	.05	.24	.98	.04	.13	.03	.03	.03	.16	.05	.07
11	1.7	.16	.60	.53	.06	.14	.03	.03	.03	.07	.06	.06
12	.87	.09	.22	2.1	.05	.71	.04	.03	.04	.06	.05	.06
13	4.3	.10	1.3	.86	.04	.13	.04	.04	.04	.07	.05	.06
14	3.4	.36	1.2	.26	.04	.09	.04	.04	.04	.86	.06	.12
15	1.8	.24	.71	.10	.04	.05	.04	.03	.04	1.1	.19	.36
16	2.1	.18	.64	.28	.04	.08	.17	.04	.05	1.0	.17	.41
17	2.5	.13	.76	.12	.04	.05	.27	.04	.08	.78	.10	.40
18	1.9	.11	.65	.86	.04	.17	.05	.04	.04	.68	.07	.22
19	2.0	.06	.25	1.4	.05	.30	.05	.04	.05	.87	.07	.21
20	.08	.05	.06	2.0	.04	.23	.05	.04	.05	.90	.13	.60
21	.09	.04	.05	3.4	.04	.94	.05	.04	.04	.51	.10	.25
22	.17	.04	.06	.05	.04	.04	.05	.04	.05	.20	.06	.12
23	.11	.04	.05	.05	.04	.04	.05	.05	.05	.56	.07	.16
24	.12	.04	.06	.04	.03	.04	.05	.05	.05	.42	.08	.16
25	.08	.04	.05	.04	.03	.03	.05	.05	.05	.31	.07	.13
26	.44	.04	.09	.03	.03	.03	.22	.05	.06	.28	.06	.12
27	.07	.04	.05	.03	.03	.03	.64	.05	.09	.07	.06	.06
28	.30	.04	.07	.03	.02	.03	.25	.05	.07	.06	.06	.06
29	---	---	---	.03	.02	.03	.05	.04	.04	.06	.06	.06
30	---	---	---	.04	.03	.03	.04	.04	.04	1.2	.05	.14
31	---	---	---	.04	.03	.03	---	---	---	1.3	.07	.35
MONTH	6.4	.04	.70	3.4	.02	.15	.64	.02	.04	1.3	.04	.15

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	.10	.06	.07	.04	.03	.04	.03	.03	.03	4.9	.31	1.4
2	.07	.05	.06	.23	.03	.09	.03	.03	.03	5.7	2.1	3.7
3	.06	.05	.05	.30	.05	.13	.04	.03	.03	4.5	1.7	3.2
4	.06	.05	.05	.19	.05	.06	.04	.03	.04	4.7	1.6	3.1
5	.06	.05	.05	.20	.05	.07	.04	.04	.04	8.1	1.6	4.4
6	.05	.04	.04	.96	.05	.30	.04	.04	.04	6.8	3.1	4.9
7	.04	.04	.04	.65	.08	.33	.04	.04	.04	6.6	3.2	4.8
8	.12	.04	.05	.17	.05	.08	.04	.04	.04	5.9	3.4	4.5
9	.04	.04	.04	.39	.05	.12	.06	.04	.04	4.8	2.4	3.9
10	.04	.04	.04	.32	.05	.12	.07	.04	.05	4.2	1.9	2.7
11	.04	.03	.04	.19	.05	.08	.05	.04	.05	4.5	.89	2.7
12	.04	.03	.03	1.1	.06	.32	.05	.04	.05	5.9	1.9	4.2
13	.04	.03	.04	.87	.10	.28	.05	.05	.05	5.3	1.5	3.3
14	.04	.04	.04	1.1	.10	.28	.05	.05	.05	4.3	1.8	3.0
15	.04	.04	.04	1.1	.13	.43	.05	.04	.05	6.2	3.1	4.7
16	.04	.04	.04	.83	.16	.36	.04	.04	.04	6.8	2.7	4.8
17	.04	.03	.04	.96	.22	.45	.04	.04	.04	6.6	3.2	5.1
18	.03	.03	.03	.60	.33	.42	.04	.04	.04	6.3	2.5	4.6
19	.03	.03	.03	1.1	.33	.71	.04	.04	.04	5.6	2.6	4.4
20	.03	.03	.03	4.1	.35	1.8	.04	.04	.04	4.6	3.1	3.8
21	.03	.03	.03	5.1	1.3	3.0	.04	.03	.03	4.2	2.4	3.4
22	.03	.02	.03	4.1	1.8	3.0	.97	.03	.11	4.4	2.2	3.2
23	.03	.03	.03	3.5	1.3	2.2	.29	.03	.07	4.3	1.9	3.2
24	.03	.03	.03	2.3	.39	1.1	.57	.03	.13	3.9	1.9	2.9
25	.04	.03	.03	1.3	.43	.85	3.7	.05	.98	3.4	1.3	1.8
26	.04	.04	.04	1.5	.34	.58	4.8	.23	2.1	3.9	1.0	2.2
27	.04	.04	.04	1.5	.19	.88	3.9	.84	1.6	4.6	1.2	3.0
28	.04	.04	.04	1.2	.06	.17	1.5	.30	.72	6.4	.89	3.6
29	.04	.04	.04	.08	.03	.05	1.7	.27	1.0	9.9	2.4	5.7
30	.04	.04	.04	.05	.03	.04	2.2	.25	1.2	11.2	3.0	7.6
31	---	---	---	.03	.03	.03	1.5	.22	.73	---	---	---
MONTH	.12	.02	.04	5.1	.03	.59	4.8	.03	.31	11.2	.31	3.8

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.03	.03	.03	8.5	5.9	7.6	5.9	1.2	4.7	8.8	4.9	7.6
2	.04	.03	.03	9.2	6.7	8.6	6.7	5.6	6.3	9.1	8.0	8.7
3	.04	.03	.03	9.0	7.7	8.6	7.9	6.3	7.4	9.0	8.6	8.8
4	.19	.04	.04	8.5	7.3	8.0	8.2	7.1	7.9	8.8	8.5	8.7
5	3.6	.04	.71	8.3	6.3	7.7	7.8	7.0	7.4	8.7	6.8	8.1
6	2.4	.04	.74	9.3	5.7	8.0	7.2	5.8	6.5	8.1	6.5	7.8
7	5.7	.92	3.7	9.6	9.0	9.4	8.1	4.8	7.2	9.0	7.9	8.6
8	6.0	4.7	5.5	9.5	8.8	9.2	8.6	7.4	8.3	9.4	8.1	9.1
9	6.1	3.1	5.0	9.1	6.8	8.6	9.0	8.3	8.7	10.0	6.5	9.3
10	10.0	3.5	8.0	8.1	2.9	5.2	9.5	8.5	9.2	10.9	5.9	9.1
11	10.1	5.6	8.6	5.1	3.5	4.3	9.6	8.6	9.3	10.4	7.0	8.4
12	11.1	7.6	10.4	7.4	4.8	6.4	9.3	7.3	8.8	10.4	7.8	9.7
13	11.5	10.6	11.2	7.6	4.5	6.9	8.8	6.8	8.3	11.1	9.3	10.6
14	11.4	10.4	11.2	7.4	3.9	6.3	9.1	6.7	8.4	11.2	10.8	11.1
15	11.3	10.1	10.9	8.1	5.7	7.2	8.2	7.2	8.0	11.1	10.5	11.0
16	10.8	9.0	10.5	7.6	5.7	6.9	8.8	7.6	8.5	11.0	9.2	10.7
17	10.5	8.8	10.1	8.2	6.6	7.6	8.3	.08	4.1	10.9	8.5	10.4
18	10.0	7.7	9.2	9.8	5.3	8.2	4.6	.16	2.8	10.8	9.8	10.6
19	9.5	7.5	9.0	10.1	9.3	9.7	5.1	2.3	4.7	10.7	9.0	10.3
20	9.6	8.7	9.4	10.0	8.6	9.3	3.1	.06	1.4	10.2	1.2	8.3
21	9.6	9.2	9.4	9.2	7.3	8.7	6.4	.45	3.1	7.9	.27	4.3
22	9.5	8.6	9.1	8.5	6.8	7.6	6.5	.05	2.4	7.9	4.7	6.6
23	9.9	7.4	9.3	7.6	3.8	5.9	.88	.04	.40	8.4	6.8	7.9
24	10.3	8.5	9.7	7.0	4.1	6.1	4.9	.04	3.2	10.0	8.3	9.6
25	10.2	8.8	9.8	7.6	5.9	7.3	6.0	.88	4.5	10.0	8.4	9.6
26	10.1	8.6	9.7	6.8	.85	4.3	8.1	5.7	7.3	9.2	8.2	8.8
27	9.8	9.3	9.6	7.2	3.1	6.4	8.5	7.7	8.2	8.8	8.0	8.4
28	9.7	8.4	9.4	7.5	3.1	6.2	8.8	7.2	8.3	10.9	8.2	10.3
29	8.8	8.1	8.5	8.2	6.8	7.7	9.7	7.8	9.1	10.8	10.0	10.6
30	8.4	6.6	7.9	8.1	2.8	6.6	10.0	9.0	9.6	10.6	3.7	9.5
31	8.1	6.5	7.4	---	---	---	10.0	6.5	9.2	10.2	8.5	9.2
MONTH	11.5	.03	7.2	10.1	.85	7.3	10.0	.04	6.6	11.2	.27	9.1

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.4	6.6	8.4	3.0	.04	.59	.04	.03	.03	.05	.04	.04
2	8.1	6.2	7.6	5.3	.04	2.0	.04	.03	.03	.05	.04	.04
3	9.4	6.8	8.4	6.3	.82	5.1	.03	.03	.03	.05	.04	.05
4	9.4	4.7	8.4	6.5	.78	5.0	.03	.03	.03	.05	.04	.05
5	8.7	5.3	8.2	2.8	.04	.43	.03	.03	.03	.05	.05	.05
6	8.4	5.9	7.6	.48	.04	.06	.03	.02	.03	.06	.05	.05
7	8.0	4.2	7.5	.07	.04	.05	.03	.02	.02	.06	.05	.05
8	7.3	1.3	5.2	1.9	.04	.16	.03	.02	.02	.16	.05	.07
9	6.4	.62	5.1	5.3	.04	.73	.03	.03	.03	.45	.05	.12
10	6.2	.48	3.4	7.6	.18	5.4	.03	.03	.03	.17	.05	.07
11	5.5	.71	3.5	7.8	5.8	7.6	.03	.03	.03	.06	.05	.06
12	6.1	1.9	5.1	7.8	.86	6.0	.04	.03	.04	.06	.05	.06
13	6.4	5.0	5.9	7.4	.04	1.3	.04	.04	.04	.07	.05	.06
14	5.9	3.2	5.0	2.2	.04	.46	.04	.04	.04	1.4	.06	.31
15	5.8	3.4	5.3	2.5	.05	.35	.04	.04	.04	1.2	.24	.59
16	6.3	4.5	5.6	.60	.05	.15	.17	.04	.05	1.9	.81	1.4
17	6.4	2.0	4.0	2.4	.05	.52	.33	.04	.09	1.2	.18	.58
18	7.0	1.3	4.9	2.4	.05	.77	.06	.04	.05	1.1	.13	.58
19	7.0	3.0	6.4	3.5	.45	2.3	.06	.05	.05	2.3	.92	1.7
20	6.4	.62	4.9	2.0	.05	.71	.19	.04	.05	1.1	.15	.68
21	5.8	.04	2.2	3.1	.05	.93	.05	.05	.05	.62	.11	.29
22	8.5	.04	3.7	.05	.04	.05	.06	.05	.05	.26	.07	.13
23	8.4	.04	5.8	.04	.04	.04	.05	.05	.05	.75	.07	.20
24	8.6	1.0	7.7	.04	.04	.04	.05	.05	.05	.68	.08	.21
25	8.6	.04	1.9	.04	.03	.03	.06	.05	.05	.31	.07	.13
26	2.1	.04	.32	.03	.03	.03	1.2	.05	.23	.32	.07	.14
27	1.1	.04	.09	.03	.03	.03	1.8	.05	.58	.08	.07	.07
28	2.2	.04	.30	.03	.02	.03	.46	.05	.08	.08	.06	.07
29	---	---	---	.03	.02	.03	.05	.04	.04	.07	.06	.07
30	---	---	---	.03	.03	.03	.04	.04	.04	1.3	.06	.19
31	---	---	---	.04	.03	.03	---	---	---	1.4	.07	.41
MONTH	9.4	.04	5.1	7.8	.02	1.3	1.8	.02	.07	2.3	.04	.27

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	.17	.06	.07	.04	.04	.04	.03	.03	.03	8.9	4.4	7.4
2	.06	.05	.06	.40	.04	.11	.03	.03	.03	10.2	8.6	9.5
3	.05	.05	.05	2.4	.05	.40	.03	.03	.03	10.5	9.3	10.1
4	.08	.05	.05	.69	.05	.10	.04	.03	.04	10.5	9.0	10.0
5	.05	.05	.05	.82	.05	.22	.04	.04	.04	10.0	9.0	9.7
6	.05	.04	.04	1.6	.05	.62	.04	.04	.04	9.2	7.1	8.5
7	.04	.04	.04	.52	.07	.31	.04	.04	.04	9.0	6.5	8.4
8	.20	.04	.06	.18	.05	.08	.05	.04	.04	8.3	5.5	7.0
9	.04	.04	.04	1.6	.05	.41	.06	.04	.04	7.1	4.6	5.7
10	.04	.03	.04	1.8	.22	1.0	.05	.04	.04	6.2	4.6	5.6
11	.04	.03	.03	.78	.05	.28	.05	.04	.04	5.5	3.5	4.7
12	.03	.03	.03	1.3	.05	.41	.05	.04	.05	6.9	5.2	6.2
13	.04	.03	.03	1.1	.06	.28	.05	.04	.05	7.0	4.9	6.5
14	.04	.03	.04	1.7	.06	.95	.05	.05	.05	6.0	3.9	5.2
15	.04	.04	.04	1.7	.16	.94	.05	.03	.04	6.8	4.7	5.9
16	.04	.04	.04	2.2	.62	1.6	.04	.03	.03	7.3	5.8	6.7
17	.04	.03	.04	2.3	1.7	2.1	.04	.03	.04	7.2	5.6	6.9
18	.03	.03	.03	2.3	1.8	2.1	.04	.03	.03	7.4	6.8	7.2
19	.03	.03	.03	1.9	.65	1.4	.04	.03	.03	7.5	4.1	6.8
20	.03	.03	.03	4.8	1.3	3.5	.04	.03	.04	4.8	3.5	4.1
21	.03	.03	.03	5.5	3.2	4.9	.03	.03	.03	4.9	3.7	4.4
22	.03	.03	.03	4.7	2.8	4.0	5.4	.03	3.5	5.0	2.9	4.2
23	.03	.03	.03	3.4	2.3	2.7	5.0	.40	3.3	4.9	2.5	4.2
24	.03	.03	.03	2.7	1.5	2.2	4.6	.03	1.9	4.5	2.8	3.8
25	.04	.03	.03	3.0	1.4	2.3	5.5	4.0	4.9	5.3	2.4	4.0
26	.04	.04	.04	2.8	.91	2.1	6.7	5.1	6.0	6.5	4.0	5.2
27	.04	.04	.04	2.4	.27	1.3	6.4	4.1	5.6	6.7	5.8	6.5
28	.04	.04	.04	1.5	.06	.28	5.7	3.7	5.1	9.8	5.9	7.2
29	.04	.04	.04	.07	.03	.04	5.1	1.2	3.5	11.4	8.8	10.5
30	.04	.04	.04	.04	.03	.03	4.9	1.1	2.8	12.1	10.5	11.5
31	---	---	---	.03	.03	.03	7.4	2.5	5.3	---	---	---
MONTH	.20	.03	.04	5.5	.03	1.2	7.4	.03	1.4	12.1	2.4	6.8

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	6.4	6.4	7.1	6.7	6.8	7.2	7.0	7.1	7.5	7.0	7.2
2	6.5	6.4	6.4	7.1	6.6	6.7	7.5	7.0	7.2	7.7	6.9	7.1
3	6.4	6.3	6.4	6.9	6.6	6.7	7.6	7.1	7.3	8.2	7.1	7.5
4	6.5	6.3	6.4	6.8	6.6	6.7	7.9	7.2	7.6	8.2	7.0	7.4
5	6.5	6.4	6.5	6.8	6.6	6.7	7.7	7.1	7.3	8.1	7.1	7.2
6	6.7	6.5	6.6	6.8	6.7	6.7	7.7	7.1	7.2	7.9	7.0	7.3
7	6.8	6.6	6.7	7.0	6.7	6.8	7.6	7.0	7.2	7.9	7.0	7.2
8	6.8	6.5	6.7	6.9	6.6	6.8	7.3	7.0	7.1	7.7	6.9	7.2
9	6.9	6.6	6.7	6.8	6.6	6.7	7.6	7.0	7.2	7.7	6.9	7.2
10	6.9	6.7	6.8	6.7	6.6	6.6	7.8	7.0	7.3	7.6	7.0	7.2
11	7.3	6.7	6.8	6.8	6.6	6.7	7.6	7.0	7.3	7.6	7.0	7.2
12	7.2	6.7	6.9	6.8	6.6	6.7	7.3	6.9	7.1	8.0	7.0	7.2
13	7.5	6.5	6.8	6.8	6.6	6.7	7.6	7.1	7.3	8.1	7.0	7.4
14	7.5	6.5	6.9	6.7	6.6	6.7	7.3	7.0	7.1	7.7	7.1	7.4
15	7.2	6.7	6.8	6.8	6.5	6.7	7.3	7.0	7.1	8.1	6.9	7.3
16	7.5	6.5	6.8	---	---	---	7.6	6.9	7.1	8.1	6.9	7.3
17	6.9	6.5	6.7	---	---	---	7.2	6.9	7.1	8.2	7.0	7.3
18	6.9	6.5	6.7	---	---	---	7.2	7.0	7.1	7.8	7.0	7.2
19	6.9	6.6	6.7	---	---	---	7.1	7.0	7.0	7.7	7.0	7.2
20	7.1	6.4	6.6	---	---	---	7.2	7.0	7.1	7.3	6.9	7.1
21	8.1	6.5	6.8	---	---	---	7.2	7.1	7.1	7.7	7.0	7.3
22	7.2	6.5	6.7	---	---	---	7.1	7.0	7.1	8.3	7.1	7.3
23	7.2	6.6	6.9	---	---	---	7.2	7.0	7.1	8.2	7.0	7.3
24	7.8	6.6	6.8	---	---	---	7.1	7.0	7.1	7.9	7.0	7.3
25	8.1	6.5	6.8	---	---	---	7.1	7.0	7.0	7.4	7.0	7.1
26	7.6	6.4	6.8	---	---	---	7.8	6.9	7.2	8.3	7.0	7.5
27	7.7	6.5	6.8	---	---	---	7.5	6.9	7.1	7.4	7.1	7.2
28	7.2	6.5	6.9	---	---	---	8.0	6.8	7.1	8.0	7.1	7.3
29	7.7	6.7	7.0	---	---	---	8.0	7.0	7.4	7.7	7.1	7.2
30	7.4	6.6	6.9	7.3	7.1	7.1	7.9	7.0	7.1	7.2	7.1	7.1
31	7.3	6.7	7.0	---	---	---	7.4	7.0	7.1	7.2	7.0	7.1
MONTH	8.1	6.3	6.7	---	---	---	8.0	6.8	7.2	8.3	6.9	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.3	7.0	7.1	7.0	6.8	6.9	6.7	6.6	6.6	6.9	6.8	6.8
2	7.2	7.0	7.1	6.9	6.9	6.9	6.7	6.6	6.7	7.1	6.8	6.9
3	7.6	6.9	7.2	6.9	6.6	6.8	6.7	6.6	6.6	7.4	6.9	7.0
4	7.3	7.0	7.1	6.9	6.7	6.8	6.6	6.5	6.5	7.8	6.9	7.1
5	7.2	7.0	7.1	6.9	6.7	6.8	6.5	6.5	6.5	8.0	6.9	7.1
6	7.2	7.0	7.1	7.0	6.8	6.9	6.5	6.4	6.5	7.9	7.0	7.3
7	7.2	6.9	7.1	7.1	6.9	7.0	6.5	6.4	6.5	8.0	7.0	7.3
8	7.2	7.0	7.1	6.9	6.9	6.9	6.5	6.4	6.5	7.5	7.0	7.2
9	7.3	7.1	7.2	6.9	6.8	6.9	6.5	6.5	6.5	7.4	6.9	7.1
10	7.3	7.1	7.2	7.0	6.8	6.9	6.6	6.5	6.5	7.3	6.9	7.0
11	7.3	7.0	7.1	7.0	6.8	6.9	6.6	6.5	6.5	7.4	6.9	7.0
12	7.2	7.0	7.2	7.0	6.9	6.9	6.6	6.5	6.6	7.4	6.9	7.1
13	7.2	6.9	7.1	7.0	6.8	6.9	6.7	6.6	6.6	7.5	7.0	7.1
14	7.1	6.9	7.0	7.0	6.9	6.9	6.8	6.7	6.7	7.6	7.1	7.2
15	7.1	7.0	7.1	6.9	6.9	6.9	6.9	6.8	6.8	7.4	7.0	7.1
16	7.2	7.0	7.1	6.9	6.8	6.9	7.2	6.8	7.0	7.8	6.8	7.2
17	7.2	6.9	7.1	6.9	6.8	6.8	7.2	6.9	7.0	7.3	7.0	7.1
18	7.2	7.0	7.1	7.0	6.8	6.9	7.1	6.9	6.9	7.3	7.0	7.1
19	7.2	7.0	7.1	7.0	6.8	6.9	7.0	6.8	6.9	7.6	7.0	7.1
20	7.1	7.0	7.0	7.3	6.9	7.0	7.0	6.7	6.8	8.4	7.0	7.3
21	7.1	6.9	7.0	7.6	6.8	7.0	6.8	6.8	6.8	7.5	7.0	7.2
22	7.1	6.9	7.0	6.8	6.6	6.7	6.9	6.8	6.8	8.0	7.1	7.3
23	7.0	6.9	7.0	6.7	6.6	6.7	6.9	6.8	6.8	8.7	7.2	7.5
24	6.9	6.8	6.9	6.8	6.6	6.7	7.0	6.8	6.9	8.9	7.2	7.6
25	6.9	6.8	6.9	6.7	6.6	6.6	7.0	6.8	6.9	8.9	7.3	7.8
26	7.0	6.8	6.8	6.6	6.5	6.6	7.1	6.9	6.9	8.4	7.1	7.6
27	6.9	6.8	6.8	6.6	6.4	6.5	7.0	6.8	6.9	7.5	7.0	7.2
28	6.9	6.8	6.9	6.6	6.5	6.5	7.0	6.9	6.9	7.3	7.1	7.1
29	---	---	---	6.6	6.5	6.5	6.9	6.8	6.8	7.2	7.0	7.1
30	---	---	---	6.6	6.5	6.5	6.8	6.7	6.8	7.2	7.0	7.0
31	---	---	---	6.6	6.5	6.6	---	---	---	7.2	6.9	7.0
MONTH	7.6	6.8	7.1	7.6	6.4	6.8	7.2	6.4	6.7	8.9	6.8	7.2

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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	6.5	6.6	6.6	6.5	6.6	7.0	6.7	6.8
2	7.0	6.9	6.9	7.2	6.6	6.8	6.5	6.3	6.4	7.1	6.7	6.9
3	6.9	6.8	6.9	7.1	6.8	6.9	6.4	6.3	6.3	7.4	6.8	7.0
4	7.0	6.8	6.9	7.2	6.7	6.9	6.4	6.3	6.3	7.5	6.8	7.0
5	6.9	6.7	6.8	7.2	6.8	6.9	6.5	6.3	6.4	7.2	6.8	7.0
6	6.8	6.7	6.8	7.4	6.8	7.0	6.8	6.4	6.5	7.6	6.9	7.2
7	6.9	6.7	6.8	7.2	6.9	7.0	6.9	6.4	6.5	8.5	6.9	7.3
8	6.8	6.6	6.7	7.0	6.9	6.9	6.8	6.4	6.6	8.6	7.1	7.6
9	6.7	6.6	6.6	7.1	6.8	6.9	7.1	6.4	6.6	8.2	7.3	7.7
10	6.6	6.5	6.5	7.2	6.8	6.9	7.2	6.5	6.8	8.4	7.3	7.6
11	6.5	6.4	6.4	7.4	6.8	7.0	6.8	6.6	6.7	7.9	7.3	7.6
12	6.4	6.3	6.4	7.4	6.8	7.0	6.8	6.6	6.7	7.8	6.9	7.4
13	6.7	6.4	6.5	7.2	6.9	7.0	6.9	6.7	6.7	8.4	6.9	7.4
14	6.8	6.6	6.6	7.0	6.8	6.9	6.9	6.7	6.8	8.2	7.0	7.3
15	6.6	6.5	6.5	7.1	6.7	6.9	6.7	6.4	6.6	7.7	7.0	7.3
16	6.6	6.4	6.5	7.3	6.7	6.9	6.5	6.3	6.4	7.9	7.1	7.4
17	6.4	6.2	6.4	8.2	6.7	7.2	6.6	6.5	6.5	8.1	7.1	7.4
18	6.3	6.0	6.1	8.1	6.9	7.3	6.6	5.5	6.5	7.9	7.0	7.3
19	---	---	---	7.4	6.8	7.0	5.9	5.4	5.7	8.3	6.9	7.4
20	---	---	---	7.2	6.8	7.0	6.1	5.9	6.0	7.8	7.0	7.2
21	---	---	---	7.4	6.8	7.1	6.0	5.9	6.0	8.0	6.9	7.2
22	---	---	---	7.7	7.0	7.2	6.3	5.8	6.0	7.8	6.9	7.1
23	---	---	---	7.3	7.0	7.2	6.3	6.1	6.2	7.6	6.9	7.1
24	---	---	---	7.5	7.1	7.2	6.3	6.2	6.2	7.3	6.9	7.1
25	---	---	---	8.4	7.1	7.4	6.5	6.3	6.4	7.2	6.8	7.0
26	---	---	---	7.6	6.9	7.2	6.8	6.4	6.5	7.3	6.9	7.0
27	---	---	---	7.6	7.0	7.2	7.1	6.5	6.6	7.5	6.9	7.1
28	6.5	6.3	6.4	7.2	7.0	7.1	6.8	6.6	6.6	8.1	6.9	7.2
29	6.6	6.4	6.5	7.1	6.5	6.8	6.8	6.6	6.6	7.9	7.0	7.3
30	6.9	6.5	6.6	6.6	6.4	6.5	6.9	6.6	6.7	8.1	7.0	7.3
31	---	---	---	6.6	6.4	6.5	6.8	6.6	6.7	---	---	---
MONTH	---	---	---	8.4	6.4	7.0	7.2	5.4	6.5	8.6	6.7	7.2

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.4	6.3	6.4	7.0	6.7	6.9	7.4	7.0	7.2	7.9	7.4	7.6
2	6.4	6.3	6.4	6.8	6.5	6.7	7.6	7.3	7.5	7.9	7.7	7.8
3	6.4	6.4	6.4	6.8	6.5	6.6	7.6	7.3	7.4	8.0	7.8	7.8
4	6.4	6.3	6.4	6.7	6.6	6.6	7.5	7.3	7.4	8.1	7.8	7.9
5	6.5	6.3	6.4	6.8	6.6	6.7	7.4	7.3	7.3	8.1	7.6	7.8
6	6.6	6.4	6.5	6.8	6.6	6.7	7.4	7.2	7.3	8.0	7.6	7.8
7	6.6	6.4	6.5	6.8	6.7	6.7	7.6	7.1	7.4	8.0	7.7	7.8
8	6.6	6.5	6.6	6.7	6.5	6.5	7.5	7.4	7.5	7.8	7.6	7.7
9	6.9	6.6	6.7	6.5	6.4	6.4	7.4	7.3	7.4	7.7	7.3	7.5
10	6.9	6.6	6.6	6.8	6.4	6.5	7.5	7.3	7.4	7.5	7.3	7.4
11	6.7	6.6	6.6	7.5	6.6	7.0	7.4	7.2	7.3	7.5	7.3	7.3
12	6.6	6.6	6.6	7.4	6.9	7.1	7.3	7.1	7.2	7.5	7.2	7.3
13	6.6	6.6	6.6	7.1	6.8	7.0	7.2	7.0	7.1	7.5	7.2	7.3
14	6.6	6.6	6.6	6.9	6.6	6.8	7.0	6.9	7.0	7.5	7.3	7.4
15	6.6	6.5	6.6	6.8	6.6	6.7	7.1	7.0	7.0	7.3	7.2	7.3
16	6.6	6.5	6.6	6.9	6.7	6.8	7.1	7.0	7.0	7.8	7.1	7.3
17	6.6	6.5	6.6	6.9	6.7	6.7	7.0	6.8	6.9	7.6	7.2	7.4
18	6.6	6.5	6.6	6.9	6.7	6.8	7.1	6.9	7.0	7.4	7.2	7.3
19	6.7	6.6	6.7	6.9	6.8	6.8	7.1	6.8	7.0	7.2	7.0	7.1
20	6.8	6.7	6.7	6.8	6.8	6.8	7.0	6.8	6.9	7.0	6.8	6.9
21	6.8	6.8	6.8	6.9	6.8	6.8	7.1	6.8	6.9	7.3	6.8	7.0
22	6.8	6.7	6.8	7.1	6.8	6.9	7.4	6.8	7.1	7.6	6.9	7.3
23	6.8	6.6	6.7	7.3	6.9	7.1	7.3	7.1	7.2	7.5	7.2	7.3
24	6.7	6.6	6.7	7.2	7.0	7.1	7.5	7.2	7.4	7.3	7.1	7.2
25	6.7	6.6	6.7	7.2	7.1	7.1	7.6	7.2	7.5	7.1	6.9	7.0
26	6.7	6.6	6.7	7.4	6.9	7.2	7.7	7.5	7.7	7.7	6.9	7.3
27	6.9	6.6	6.7	7.4	7.0	7.3	7.7	7.5	7.6	7.4	7.1	7.2
28	7.1	6.6	6.8	7.2	7.0	7.1	7.9	7.5	7.6	7.6	7.2	7.5
29	6.8	6.6	6.7	7.3	7.1	7.2	8.1	7.6	7.9	7.3	7.0	7.2
30	7.2	6.6	6.8	7.2	7.1	7.2	8.1	7.8	8.0	7.1	6.8	6.9
31	7.6	6.6	6.9	---	---	---	7.9	7.6	7.7	6.9	6.7	6.8
MONTH	7.6	6.3	6.6	7.5	6.4	6.9	8.1	6.8	7.3	8.1	6.7	7.4

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.2	6.7	6.8	---	---	---	---	---	---	6.8	6.8	6.8
2	7.3	6.8	7.0	---	---	---	---	---	---	7.1	6.8	6.9
3	7.2	7.0	7.1	---	---	---	---	---	---	7.0	6.9	6.9
4	7.1	6.9	7.0	---	---	---	---	---	---	7.2	6.9	7.0
5	7.0	6.8	6.9	---	---	---	---	---	---	7.1	6.9	7.0
6	6.8	6.7	6.8	---	---	---	---	---	---	7.9	6.9	7.2
7	6.8	6.7	6.7	---	---	---	---	---	---	7.7	7.1	7.3
8	7.0	6.7	6.8	6.9	6.8	6.8	---	---	---	7.4	7.0	7.2
9	7.1	6.7	6.8	6.9	6.8	6.9	---	---	---	7.5	6.9	7.0
10	7.1	6.8	6.9	6.9	6.8	6.8	---	---	---	7.0	6.8	6.9
11	7.1	6.8	6.9	6.9	6.8	6.9	---	---	---	7.1	6.9	6.9
12	7.0	6.8	6.9	6.9	6.8	6.8	---	---	---	7.3	6.9	7.0
13	6.9	6.8	6.9	7.1	6.7	6.9	---	---	---	7.5	7.0	7.1
14	---	---	---	7.1	6.8	7.0	---	---	---	7.5	6.7	7.1
15	---	---	---	7.0	6.7	6.9	---	---	---	7.3	6.9	7.0
16	---	---	---	7.0	6.9	7.0	---	---	---	7.4	6.8	6.9
17	---	---	---	7.0	6.8	6.9	---	---	---	7.2	6.9	7.1
18	---	---	---	7.0	6.8	6.9	---	---	---	7.1	6.8	7.0
19	---	---	---	6.9	6.8	6.9	6.9	6.9	6.9	7.4	6.7	6.8
20	---	---	---	7.2	6.8	7.0	6.9	6.8	6.9	7.5	7.1	7.2
21	---	---	---	7.4	6.9	7.0	6.9	6.8	6.8	7.4	7.1	7.2
22	---	---	---	6.9	6.8	6.8	6.9	6.8	6.9	7.6	7.1	7.3
23	---	---	---	6.8	6.8	6.8	6.9	6.8	6.9	8.2	6.8	7.3
24	---	---	---	6.9	6.8	6.8	7.0	6.9	6.9	8.0	6.8	7.0
25	---	---	---	6.8	6.8	6.8	7.0	6.8	6.9	8.2	6.8	7.2
26	---	---	---	6.8	6.7	6.7	7.0	6.8	6.9	7.9	6.8	7.2
27	---	---	---	---	---	---	7.0	6.9	6.9	7.2	6.8	6.9
28	---	---	---	---	---	---	7.1	6.9	7.0	7.1	6.9	7.0
29	---	---	---	---	---	---	6.9	6.7	6.8	7.2	7.0	7.1
30	---	---	---	---	---	---	6.8	6.7	6.7	7.3	7.0	7.1
31	---	---	---	---	---	---	---	---	---	7.4	7.0	7.2
MONTH	---	---	---	---	---	---	---	---	---	8.2	6.7	7.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	6.9	7.1	6.7	6.5	6.6	6.6	6.6	6.6	7.0	6.8	6.9
2	7.0	6.9	7.0	7.1	6.6	6.8	6.6	6.3	6.4	7.1	6.9	7.0
3	7.0	6.9	6.9	7.1	6.5	6.9	6.4	6.2	6.3	7.1	7.0	7.1
4	7.0	6.9	6.9	7.0	6.7	6.8	6.3	6.3	6.3	7.1	7.0	7.1
5	7.0	6.9	6.9	6.9	6.6	6.8	6.4	6.2	6.3	7.1	7.0	7.1
6	7.0	6.9	6.9	7.3	6.5	6.8	6.5	6.3	6.3	7.1	6.9	7.0
7	6.9	6.7	6.8	7.0	6.8	6.9	6.4	6.2	6.3	7.0	6.7	6.8
8	6.8	6.7	6.7	6.9	6.8	6.8	6.6	6.3	6.4	6.8	6.6	6.7
9	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.6	6.6	6.9	6.7	6.8
10	6.6	6.5	6.5	6.7	6.5	6.6	6.9	6.7	6.8	6.8	6.7	6.7
11	6.5	6.4	6.4	6.9	6.6	6.7	6.9	6.7	6.8	7.0	6.7	6.9
12	6.4	6.3	6.4	7.1	6.7	6.8	6.9	6.7	6.8	7.0	6.8	6.9
13	6.6	6.4	6.5	7.1	6.8	6.9	7.0	6.8	6.8	7.0	6.8	6.8
14	6.8	6.6	6.6	6.9	6.5	6.7	7.0	6.8	6.8	7.1	6.9	6.9
15	6.6	6.6	6.6	6.9	6.6	6.7	6.8	6.5	6.6	7.5	6.9	7.2
16	6.6	6.5	6.6	6.7	6.5	6.6	6.5	6.4	6.5	7.7	6.9	7.3
17	6.6	6.4	6.5	6.6	6.5	6.5	6.6	6.5	6.5	7.6	7.2	7.4
18	6.4	6.2	6.3	6.6	6.5	6.5	6.6	6.5	6.5	7.4	7.2	7.3
19	6.2	5.9	6.1	6.9	6.5	6.7	6.7	6.5	6.6	7.4	6.9	7.2
20	6.1	6.1	6.1	6.9	6.6	6.7	6.8	6.7	6.7	7.5	7.0	7.2
21	6.2	6.1	6.1	7.0	6.7	6.8	6.8	6.5	6.6	7.5	7.0	7.1
22	6.2	6.1	6.2	7.1	6.8	6.9	6.8	6.5	6.7	7.3	6.9	7.1
23	6.2	6.2	6.2	7.2	6.9	7.0	6.7	6.4	6.6	7.2	6.9	7.0
24	6.3	6.2	6.2	7.1	6.9	7.0	6.6	6.4	6.5	7.1	7.0	7.0
25	6.3	6.2	6.2	7.1	6.7	7.0	6.8	6.6	6.7	7.1	6.9	7.0
26	6.3	6.2	6.3	7.0	6.6	6.7	6.9	6.8	6.9	7.1	6.8	7.0
27	6.3	6.2	6.3	7.2	6.8	7.0	6.9	6.7	6.8	7.0	6.8	6.9
28	6.4	6.3	6.4	7.1	7.0	7.1	6.8	6.6	6.7	7.0	6.8	6.9
29	6.5	6.3	6.4	7.1	6.6	6.8	6.7	6.5	6.6	6.9	6.8	6.8
30	6.6	6.4	6.5	6.6	6.4	6.5	6.7	6.6	6.6	7.2	6.8	7.0
31	---	---	---	6.6	6.4	6.5	6.9	6.6	6.7	---	---	---
MONTH	7.2	5.9	6.5	7.3	6.4	6.8	7.0	6.2	6.6	7.7	6.6	7.0

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.1	18.7	18.8	17.2	16.1	16.8	9.3	8.7	9.0	3.0	2.0	2.5
2	19.7	18.5	19.0	17.0	15.7	16.7	9.9	8.2	9.1	3.4	2.2	2.8
3	20.5	18.8	19.4	17.0	15.6	16.6	9.9	5.6	7.4	4.2	1.6	3.3
4	22.0	19.4	20.1	16.8	16.2	16.6	7.6	5.6	6.9	4.2	1.7	3.0
5	22.1	20.2	20.7	17.0	16.1	16.6	7.3	5.9	6.8	4.1	1.8	2.7
6	22.5	20.9	21.6	16.4	15.8	16.1	7.2	5.9	6.5	4.3	2.2	3.1
7	22.2	21.4	21.7	16.4	15.6	16.1	7.3	5.4	6.3	4.3	2.1	3.5
8	21.8	18.7	20.5	17.0	15.4	16.0	7.0	5.2	5.9	4.6	3.0	3.6
9	20.5	18.3	18.9	18.0	16.0	17.0	7.7	5.2	6.4	4.5	2.9	3.7
10	18.9	17.3	18.2	17.8	16.2	17.1	7.9	5.3	6.5	4.2	2.2	3.2
11	19.1	17.0	18.0	16.5	15.3	16.0	7.7	5.6	6.8	4.6	3.1	4.0
12	19.3	17.2	18.2	16.1	14.7	15.7	8.1	6.2	7.0	5.2	4.0	4.5
13	19.1	17.1	18.3	16.2	14.8	15.6	7.9	6.3	7.3	6.1	4.4	5.0
14	19.7	16.9	18.4	15.7	14.5	15.3	8.8	6.8	7.7	5.7	4.9	5.3
15	20.1	17.0	18.6	15.2	13.4	14.4	8.8	7.7	8.4	7.0	5.3	6.0
16	21.0	17.7	19.1	14.5	13.4	14.0	9.2	7.9	8.4	7.4	6.1	6.6
17	20.2	18.1	19.2	14.4	13.4	13.8	10.5	8.3	9.3	7.2	6.3	6.7
18	19.7	18.4	19.1	13.9	12.7	13.4	8.4	7.5	8.0	7.5	6.8	7.1
19	20.0	18.5	19.3	13.8	12.0	13.2	8.2	7.4	7.9	9.4	7.1	8.1
20	20.0	18.3	19.4	12.4	11.1	11.7	8.3	6.7	7.4	9.8	8.7	9.3
21	20.3	17.9	19.3	12.2	9.5	10.6	6.9	6.1	6.4	8.7	7.2	7.7
22	20.1	18.3	19.3	9.5	7.6	8.4	6.5	5.1	5.9	8.1	7.2	7.6
23	20.2	18.4	19.4	9.0	7.7	8.4	5.4	4.4	4.8	8.6	7.0	7.6
24	19.6	17.9	19.1	8.7	7.8	8.3	4.9	4.0	4.3	8.3	6.5	7.5
25	19.7	18.3	19.1	9.2	8.1	8.6	4.1	2.7	3.6	7.4	5.9	6.6
26	19.9	18.0	19.0	9.4	8.7	9.0	5.2	2.4	3.4	7.2	5.1	6.1
27	19.5	18.0	19.0	10.0	8.1	9.0	4.8	3.0	3.6	6.7	5.2	5.9
28	20.1	18.2	19.4	10.2	8.3	9.1	5.6	2.8	3.7	7.1	5.3	6.2
29	19.7	17.8	18.8	9.7	8.8	9.2	5.4	2.6	4.0	7.6	5.7	6.3
30	18.9	17.0	18.0	9.9	9.0	9.4	4.9	2.6	3.5	7.9	6.1	7.0
31	17.9	16.0	17.1	---	---	---	3.1	2.1	2.6	8.5	6.9	7.6
MONTH	22.5	16.0	19.2	18.0	7.6	13.3	10.5	2.1	6.3	9.8	1.6	5.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.0	7.6	8.0	11.2	9.8	10.5	13.5	13.2	13.4	20.8	18.0	19.0
2	8.9	7.6	8.0	11.3	10.6	10.9	14.0	12.7	13.3	21.9	18.9	20.1
3	8.8	7.5	8.0	11.2	11.0	11.1	13.4	12.6	13.0	22.5	19.6	20.5
4	8.5	7.1	7.8	11.1	10.7	10.9	13.0	12.4	12.6	23.6	20.3	21.5
5	9.1	7.6	8.1	11.0	10.0	10.6	13.4	12.1	12.5	24.1	21.1	22.2
6	8.9	7.4	8.2	10.0	8.4	9.2	13.8	12.6	13.1	23.4	22.3	22.6
7	9.4	7.4	8.3	9.0	7.1	8.1	15.0	13.7	14.3	22.3	20.5	21.3
8	9.9	7.7	8.5	9.8	8.1	8.8	16.4	14.9	15.5	22.2	20.5	21.3
9	10.8	8.2	9.2	10.1	8.5	9.1	18.0	16.3	17.0	23.0	21.0	21.7
10	11.1	9.1	10.2	9.9	8.4	9.1	20.0	18.0	18.9	23.8	21.6	22.4
11	10.8	9.4	10.0	10.6	8.9	9.6	20.5	19.2	19.8	25.1	22.6	23.4
12	9.4	8.7	9.0	11.3	9.6	10.3	22.0	20.1	20.9	25.4	22.9	23.7
13	10.6	8.8	9.6	13.0	10.5	11.8	22.1	20.8	21.3	24.2	23.2	23.6
14	10.6	9.6	10.0	13.4	12.1	12.7	22.0	21.0	21.4	23.7	22.7	23.2
15	12.1	10.2	11.1	13.1	12.8	12.9	21.3	20.3	20.7	23.0	22.1	22.4
16	12.8	10.7	11.7	13.8	12.6	13.2	21.0	19.8	20.4	22.7	21.2	22.0
17	12.5	11.3	11.8	14.7	13.4	14.0	19.9	18.1	19.3	22.1	20.9	21.3
18	11.5	10.3	11.0	14.3	13.3	13.8	18.1	16.4	16.9	22.4	20.5	21.0
19	11.7	10.4	11.0	14.0	12.9	13.4	18.0	15.8	16.5	24.2	21.5	22.6
20	11.1	10.1	10.5	13.4	11.9	12.6	17.6	16.7	17.0	25.4	23.0	23.7
21	10.8	9.5	10.2	12.5	11.5	12.2	18.4	16.3	17.1	24.5	23.6	24.0
22	10.1	8.9	9.4	13.1	12.0	12.5	20.5	17.2	18.5	25.8	23.5	24.5
23	9.5	8.3	8.8	13.5	12.0	12.7	21.3	18.0	19.3	25.3	24.4	24.7
24	9.6	8.5	9.0	13.6	12.4	12.9	21.7	18.9	20.0	25.9	24.1	24.7
25	10.2	8.5	9.1	13.1	12.0	12.5	20.9	18.5	19.8	26.2	24.5	25.2
26	11.3	9.2	10.1	12.5	11.6	12.0	19.2	17.7	18.3	25.8	24.7	25.2
27	11.2	9.5	10.2	12.4	11.2	11.7	20.3	17.9	19.2	25.6	24.4	24.9
28	10.5	10.2	10.4	12.3	11.0	11.4	20.5	18.5	19.3	25.2	24.3	24.7
29	---	---	---	11.3	11.0	11.1	19.4	18.0	18.6	24.4	23.9	24.1
30	---	---	---	13.1	11.2	12.1	19.9	17.2	18.1	24.9	23.6	24.2
31	---	---	---	14.1	12.5	13.1	---	---	---	24.5	23.5	23.9
MONTH	12.8	7.1	9.5	14.7	7.1	11.5	22.1	12.1	17.5	26.2	18.0	22.9

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.3	23.1	23.6	29.7	28.0	28.8	24.8	23.4	23.9	27.4	26.8	27.1
2	24.7	23.0	23.7	29.0	28.0	28.5	25.1	23.3	24.0	28.0	26.6	27.3
3	25.4	23.4	24.3	28.3	26.9	27.7	26.4	23.5	24.5	27.7	26.4	27.2
4	26.0	24.3	24.8	29.1	27.4	28.0	26.5	24.3	25.2	27.3	26.7	27.0
5	26.5	24.2	25.1	29.4	27.7	28.5	28.2	25.1	26.2	27.7	26.1	26.9
6	26.3	24.5	25.5	29.4	28.2	28.7	29.6	26.4	27.3	27.9	26.4	27.3
7	26.6	25.1	25.9	29.5	27.5	28.4	29.8	27.3	27.9	28.6	26.6	27.3
8	26.4	25.6	26.0	28.5	27.1	27.6	30.6	27.8	28.6	28.4	26.6	27.5
9	26.8	25.3	25.9	28.6	26.9	27.4	31.8	28.9	29.9	27.9	27.2	27.6
10	27.0	25.0	25.8	29.9	27.6	28.4	31.8	29.5	30.4	28.8	27.1	27.7
11	26.5	24.9	25.5	30.1	28.6	29.1	30.6	29.6	30.1	28.2	27.0	27.5
12	27.0	24.7	25.5	30.2	28.5	29.0	30.5	28.8	29.6	28.1	26.4	27.3
13	27.4	25.5	26.3	29.2	27.6	28.3	30.4	29.4	29.8	27.8	26.0	27.0
14	26.5	25.5	26.0	28.0	26.5	27.4	29.6	28.4	29.0	27.2	26.0	26.6
15	25.5	24.6	25.0	28.7	27.0	27.8	28.8	27.4	27.9	26.3	24.0	24.8
16	25.7	24.1	24.6	29.0	27.4	28.0	28.5	26.5	27.2	24.3	22.7	23.4
17	24.5	23.8	24.2	29.7	27.4	28.3	29.5	27.0	27.8	24.2	22.4	23.4
18	24.9	23.5	24.1	29.4	27.6	28.4	28.6	27.2	27.8	24.5	22.9	23.6
19	24.9	23.6	24.3	28.4	27.7	28.0	28.5	26.9	27.4	25.2	23.1	24.1
20	25.0	23.9	24.4	28.3	27.0	27.6	28.0	26.8	27.3	25.0	24.0	24.4
21	25.2	24.1	24.5	27.9	26.2	27.3	27.1	26.3	26.6	25.8	24.3	24.8
22	25.4	24.3	24.8	28.3	26.7	27.4	27.2	26.0	26.5	26.5	24.9	25.4
23	25.5	24.7	25.0	28.6	27.3	27.9	28.1	26.2	26.8	27.2	25.5	26.1
24	25.5	24.8	25.1	29.1	27.6	28.3	27.2	26.4	26.6	26.6	26.0	26.3
25	26.8	24.6	25.4	30.0	27.9	28.8	27.3	26.1	26.6	26.1	25.1	25.5
26	27.7	25.3	26.3	29.1	28.0	28.5	27.9	25.7	26.7	25.3	23.4	24.1
27	28.8	26.0	26.6	28.1	27.0	27.5	28.8	26.3	27.2	23.9	22.3	23.2
28	29.1	26.8	27.4	27.1	26.2	26.7	28.0	26.4	27.1	23.8	22.4	23.2
29	29.4	27.0	27.9	26.7	24.0	24.9	27.6	26.8	27.2	23.1	21.9	22.5
30	30.1	27.6	28.6	24.2	23.4	23.7	27.7	26.5	27.1	22.6	20.9	21.6
31	---	---	---	24.6	22.9	23.6	28.1	26.4	27.3	---	---	---
MONTH	30.1	23.0	25.4	30.2	22.9	27.7	31.8	23.3	27.3	28.8	20.9	25.6

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.1	18.7	18.9	17.4	17.0	17.1	10.0	9.3	9.8	4.6	3.3	3.9
2	19.5	18.5	19.0	17.1	16.9	17.0	10.1	10.0	10.0	3.6	3.2	3.4
3	19.9	18.8	19.3	17.0	16.6	16.9	10.0	9.4	9.8	3.9	3.4	3.6
4	20.4	19.3	19.5	16.8	16.6	16.7	9.6	7.2	7.7	4.1	3.8	3.9
5	20.6	20.2	20.3	16.8	16.3	16.6	7.6	7.4	7.5	4.1	3.7	4.0
6	21.8	20.6	21.0	16.6	16.1	16.4	7.6	7.0	7.3	4.3	3.7	4.1
7	21.7	21.0	21.4	16.6	16.6	16.6	7.3	7.0	7.1	4.3	4.1	4.2
8	21.8	21.2	21.6	16.6	16.5	16.6	7.5	7.2	7.4	4.4	4.2	4.3
9	21.4	19.1	20.4	16.7	16.5	16.6	7.8	7.5	7.6	4.5	4.0	4.4
10	19.7	19.2	19.5	17.7	16.5	17.0	7.9	7.7	7.8	4.4	3.8	4.0
11	19.6	18.5	19.1	17.7	15.9	16.7	7.8	7.6	7.8	4.1	3.8	4.0
12	19.2	18.8	19.1	16.4	16.0	16.2	7.9	7.4	7.8	4.4	4.1	4.2
13	19.2	19.1	19.2	16.2	15.7	16.0	8.3	7.8	8.1	4.7	4.3	4.5
14	19.2	19.1	19.2	15.9	15.7	15.8	8.4	7.9	8.3	5.0	4.6	4.9
15	19.3	19.1	19.2	15.8	15.0	15.5	8.6	8.3	8.5	5.4	5.0	5.1
16	19.8	19.3	19.4	15.3	14.5	14.9	9.1	8.6	8.9	6.3	5.3	5.6
17	19.9	19.6	19.7	15.0	14.6	14.9	9.4	8.3	8.9	6.3	5.9	6.0
18	19.8	19.5	19.7	14.7	13.6	14.1	9.7	8.1	9.1	6.3	6.1	6.1
19	19.7	19.5	19.6	14.2	13.8	14.1	9.7	8.8	9.4	6.6	6.2	6.3
20	19.7	19.6	19.6	14.0	13.2	13.6	8.8	7.1	7.5	8.7	6.4	7.0
21	19.7	19.6	19.7	13.2	11.9	12.6	7.9	6.6	7.3	8.7	7.4	7.7
22	19.8	19.7	19.7	12.6	9.6	11.3	7.9	5.4	6.6	8.4	7.4	7.9
23	20.0	19.5	19.7	11.1	8.3	9.3	5.8	4.6	5.0	8.4	8.1	8.3
24	19.8	19.5	19.6	8.8	8.6	8.7	5.8	4.3	5.4	8.4	8.1	8.2
25	19.6	19.2	19.4	8.9	8.6	8.7	5.9	3.8	5.5	8.2	7.9	8.1
26	19.4	19.3	19.4	9.5	8.9	9.1	5.9	5.7	5.8	8.0	7.0	7.5
27	19.4	19.0	19.3	9.4	8.9	9.1	6.0	5.8	5.9	7.3	7.0	7.2
28	19.9	19.2	19.5	9.8	9.1	9.5	6.0	5.6	5.8	7.1	6.4	6.5
29	19.8	19.0	19.4	9.9	9.8	9.8	5.8	5.2	5.5	6.7	6.6	6.6
30	19.1	17.8	18.5	10.0	9.4	9.9	5.3	5.0	5.2	6.8	6.7	6.7
31	18.1	17.1	17.7	---	---	---	5.3	3.8	4.9	7.4	6.8	7.0
MONTH	21.8	17.1	19.6	17.7	8.3	13.9	10.1	3.8	7.4	8.7	3.2	5.7

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.7	7.2	7.8	11.1	9.6	10.5	13.5	13.1	13.4	20.0	17.9	18.4
2	9.3	8.2	8.8	11.3	10.5	10.9	13.7	12.5	13.2	19.9	18.7	19.2
3	9.2	8.6	9.0	11.5	11.0	11.3	13.3	12.7	13.0	20.6	19.5	19.7
4	9.0	8.3	8.8	11.5	10.9	11.3	12.8	12.3	12.6	22.1	20.1	20.6
5	8.8	8.3	8.8	11.1	10.0	10.5	13.0	12.1	12.5	21.9	20.9	21.2
6	8.8	8.6	8.7	10.0	8.3	9.1	13.8	12.6	13.1	22.7	21.5	22.2
7	8.7	8.5	8.7	8.8	6.8	7.9	15.0	13.7	14.3	22.3	20.0	21.1
8	8.8	8.3	8.6	9.4	7.6	8.4	16.4	14.9	15.5	21.9	20.4	21.1
9	9.5	8.7	9.0	9.8	8.1	8.8	18.0	16.3	17.0	22.7	20.7	21.4
10	10.3	9.1	9.6	8.6	8.1	8.4	20.0	18.0	18.9	23.0	21.5	21.9
11	11.3	10.1	10.7	8.9	8.5	8.6	20.5	19.0	19.8	23.9	22.5	22.8
12	11.3	10.1	11.0	10.4	8.7	9.1	21.7	20.0	20.8	24.7	22.9	23.3
13	11.1	10.6	10.9	12.8	9.0	11.4	21.8	20.8	21.2	23.8	23.1	23.4
14	10.7	10.2	10.5	13.2	12.0	12.5	21.9	20.9	21.3	23.7	22.6	22.9
15	10.5	10.3	10.5	13.1	12.6	12.8	21.3	20.3	20.6	23.1	21.9	22.4
16	10.6	10.5	10.5	13.7	12.6	13.1	21.0	19.9	20.4	22.7	22.1	22.3
17	12.2	10.5	11.2	14.6	13.2	13.6	19.9	17.9	19.2	22.2	20.8	21.4
18	11.7	11.0	11.5	14.1	13.3	13.6	18.1	16.3	16.9	21.0	20.5	20.8
19	11.6	11.4	11.5	13.7	13.3	13.5	17.4	15.6	16.1	23.5	20.9	21.2
20	11.5	10.3	11.2	13.4	11.9	12.7	17.3	16.6	16.9	24.4	22.9	23.4
21	11.2	9.5	10.4	12.5	11.7	12.2	18.0	16.2	16.8	24.4	23.6	24.0
22	11.2	8.9	10.1	13.0	11.9	12.4	18.3	17.0	17.3	25.3	23.4	24.3
23	10.2	8.4	9.7	13.3	12.0	12.5	19.6	17.8	18.2	25.4	24.1	24.6
24	9.9	8.9	9.7	13.5	12.3	12.8	20.8	18.6	19.4	25.5	24.0	24.4
25	9.7	8.5	9.1	12.9	11.9	12.5	20.5	18.2	19.6	26.1	24.4	24.9
26	11.0	9.0	9.7	12.4	11.6	11.9	18.5	17.4	18.0	25.8	24.7	25.1
27	10.7	9.4	10.0	12.1	11.2	11.6	19.3	18.1	18.4	25.3	24.2	24.8
28	10.6	10.2	10.4	11.9	11.0	11.3	20.4	18.4	19.1	25.1	24.2	24.6
29	---	---	---	11.3	11.0	11.1	19.3	17.9	18.4	24.3	23.7	24.0
30	---	---	---	12.7	11.3	12.0	18.9	17.2	17.8	24.5	23.6	23.9
31	---	---	---	13.8	12.5	13.1	---	---	---	24.4	23.1	23.8
MONTH	12.2	7.2	9.9	14.6	6.8	11.3	21.9	12.1	17.3	26.1	17.9	22.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	23.0	23.4	29.1	28.0	28.3	24.6	23.3	23.7	27.2	27.0	27.1
2	24.3	22.9	23.4	29.0	28.0	28.5	24.7	23.2	23.7	27.1	27.1	27.1
3	24.6	23.4	23.8	28.3	26.7	27.5	25.1	23.4	24.0	27.1	27.0	27.1
4	25.1	23.6	24.3	28.5	27.3	27.6	25.5	24.2	24.5	27.1	27.0	27.0
5	25.9	24.2	24.7	28.5	27.5	28.0	26.9	25.0	25.4	27.0	26.9	27.0
6	25.9	24.4	25.2	28.9	27.8	28.3	27.9	26.1	26.7	27.2	26.9	27.0
7	26.2	25.1	25.6	28.6	27.5	28.0	28.0	27.0	27.2	27.2	26.8	27.0
8	26.2	25.6	25.8	28.5	27.0	27.5	28.2	27.5	27.8	27.4	26.9	27.1
9	26.1	25.2	25.6	27.4	26.7	27.0	30.0	28.2	28.9	27.5	27.0	27.2
10	26.0	25.0	25.4	27.9	27.1	27.3	30.5	29.3	29.7	27.4	27.1	27.2
11	25.9	24.7	25.2	29.3	27.9	28.4	30.3	29.6	29.9	27.7	27.1	27.4
12	26.1	24.5	25.1	29.3	28.4	28.8	30.2	28.8	29.6	27.7	27.4	27.6
13	27.0	25.3	25.9	29.2	27.6	28.3	30.1	29.4	29.6	27.5	27.1	27.4
14	26.5	25.6	26.0	27.7	26.7	27.3	29.6	28.3	28.9	27.3	26.7	27.1
15	25.6	24.5	25.0	27.6	26.9	27.3	28.6	27.2	27.6	26.7	24.6	25.1
16	25.2	24.0	24.5	27.6	27.3	27.5	27.9	26.4	26.9	24.9	22.9	23.9
17	24.6	23.8	24.2	27.5	27.3	27.4	27.9	26.9	27.3	23.6	23.4	23.5
18	24.7	23.5	24.0	27.5	27.3	27.4	27.8	27.2	27.5	23.6	22.9	23.2
19	24.9	23.5	24.2	27.9	27.4	27.7	27.8	26.9	27.1	24.5	23.2	23.5
20	25.0	23.9	24.4	27.8	27.0	27.3	27.6	26.8	27.1	24.7	24.1	24.3
21	25.2	24.1	24.5	27.4	27.0	27.2	26.9	26.2	26.5	25.4	24.4	24.7
22	25.3	24.4	24.8	27.6	26.8	27.2	27.3	26.3	27.0	25.8	24.8	25.1
23	25.5	24.7	25.1	27.7	27.2	27.5	27.2	26.5	27.0	26.4	25.3	25.6
24	25.5	24.8	25.1	28.2	27.5	27.8	27.1	26.5	26.8	26.3	25.8	26.1
25	26.2	24.6	25.1	28.8	27.8	28.1	27.2	27.0	27.2	26.2	25.8	26.0
26	26.0	25.2	25.5	28.8	28.3	28.5	27.3	27.2	27.2	25.8	23.9	24.8
27	26.8	25.9	26.1	28.4	27.2	27.6	27.3	27.1	27.2	24.1	23.6	23.8
28	27.4	26.8	27.0	27.2	25.7	26.4	27.2	27.1	27.2	23.7	23.2	23.5
29	28.0	27.0	27.4	26.6	23.7	24.5	27.4	27.0	27.3	23.4	22.8	23.1
30	28.6	27.6	27.9	23.8	23.2	23.4	27.3	26.8	27.1	22.9	21.6	22.3
31	---	---	---	24.4	22.9	23.5	27.2	27.0	27.1	---	---	---
MONTH	28.6	22.9	25.1	29.3	22.9	27.3	30.5	23.2	27.1	27.7	21.6	25.6

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.2	5.7	6.0	7.5	4.3	5.7	8.9	8.2	8.7	---	---	---
2	6.1	5.5	5.7	6.4	2.8	4.2	9.0	7.8	8.4	---	---	---
3	5.7	5.3	5.6	5.5	1.9	3.4	9.6	7.8	8.8	---	---	---
4	5.8	5.2	5.4	5.0	2.0	3.0	9.5	8.0	8.8	---	---	---
5	5.9	5.4	5.8	4.7	1.9	3.2	9.5	8.3	8.8	---	---	---
6	6.1	5.6	5.9	6.9	2.7	3.6	9.2	8.4	8.7	---	---	---
7	6.3	5.0	5.8	4.5	2.2	3.0	9.1	8.3	8.7	---	---	---
8	6.4	2.8	5.2	5.6	2.2	3.6	9.3	8.5	9.0	---	---	---
9	6.4	3.0	5.7	6.6	2.8	4.4	9.5	8.1	9.0	---	---	---
10	6.9	5.3	6.2	11.5	3.8	4.7	9.6	7.7	8.7	---	---	---
11	9.0	4.9	6.4	6.7	4.2	5.3	9.1	7.8	8.5	---	---	---
12	8.6	4.6	6.6	---	---	---	9.2	8.2	8.8	---	---	---
13	10.0	.8	5.4	---	---	---	9.2	8.5	8.9	---	---	---
14	10.4	.5	6.2	---	---	---	9.2	8.0	8.7	---	---	---
15	9.6	4.7	6.9	---	---	---	8.7	8.0	8.3	---	---	---
16	10.7	2.0	5.9	---	---	---	9.1	7.5	8.3	---	---	---
17	7.2	.5	4.1	7.2	5.0	6.5	8.6	8.2	8.4	---	---	---
18	6.5	.5	4.0	7.5	4.9	6.3	8.6	8.3	8.5	13.9	11.5	12.3
19	5.7	.5	3.1	7.0	5.1	5.9	8.6	8.0	8.4	13.4	11.2	12.0
20	8.6	.1	2.3	8.6	5.7	7.3	8.9	8.2	8.5	11.9	10.5	11.1
21	12.5	.2	4.1	8.3	6.1	7.6	9.0	8.7	8.9	12.7	10.8	11.6
22	9.4	.3	4.1	9.5	8.2	8.9	---	---	---	14.1	10.4	11.5
23	8.9	2.1	5.7	10.4	8.1	9.0	---	---	---	12.7	9.5	11.1
24	10.6	.7	4.2	9.0	8.1	8.5	---	---	---	11.9	8.4	10.4
25	10.8	.5	4.1	9.7	7.9	8.7	---	---	---	11.5	10.5	11.0
26	9.4	.6	3.9	9.3	8.1	8.5	---	---	---	13.1	9.8	11.4
27	9.3	.7	3.6	9.0	8.3	8.6	---	---	---	11.7	10.9	11.4
28	7.4	.8	4.3	9.0	8.3	8.5	---	---	---	11.7	9.1	10.9
29	9.4	2.5	5.5	9.0	8.0	8.4	---	---	---	11.6	10.0	11.0
30	8.6	1.9	5.7	9.1	8.6	8.8	---	---	---	11.5	10.9	11.1
31	7.8	4.1	6.1	---	---	---	---	---	---	11.4	10.5	11.0
MONTH	12.5	.1	5.1	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.1	9.7	10.5	8.9	8.0	8.6	8.5	8.2	8.3	8.0	7.5	7.6
2	10.9	8.7	10.2	8.7	8.1	8.4	8.5	8.0	8.3	8.2	7.3	7.6
3	10.7	8.4	9.6	8.5	6.2	7.9	8.1	7.5	7.8	9.1	7.1	7.6
4	10.1	8.5	9.6	8.4	6.5	7.8	7.7	7.4	7.5	9.8	7.2	8.1
5	10.4	9.1	9.9	8.5	7.5	8.1	7.6	7.3	7.5	10.6	7.4	8.2
6	10.3	9.0	9.9	9.7	8.1	9.1	7.5	7.2	7.3	9.1	7.7	8.3
7	10.4	8.7	9.8	10.5	9.0	9.5	7.3	6.9	7.1	9.7	7.7	8.5
8	10.5	9.5	10.1	9.9	9.5	9.8	7.2	6.4	6.7	9.0	7.4	8.2
9	10.5	9.8	10.3	10.1	9.4	9.9	6.5	5.8	6.1	8.4	7.2	7.8
10	10.3	9.5	10.0	10.2	9.4	9.9	---	---	---	8.5	6.9	7.4
11	10.1	8.7	9.5	10.1	9.5	9.8	---	---	---	9.0	7.0	7.6
12	10.2	9.4	9.8	9.8	8.8	9.4	---	---	---	8.9	7.2	7.7
13	9.5	7.2	8.8	9.8	9.1	9.4	---	---	---	8.6	7.2	7.7
14	10.0	7.6	8.8	9.4	8.9	9.2	---	---	---	9.2	7.4	8.1
15	9.9	8.8	9.5	9.2	8.6	9.0	---	---	---	8.2	7.0	7.5
16	9.7	8.0	9.1	8.7	8.4	8.5	---	---	---	9.4	5.1	7.5
17	9.5	7.6	9.0	8.5	8.1	8.3	---	---	---	8.3	6.6	7.2
18	9.3	8.3	8.9	8.5	7.9	8.2	---	---	---	8.3	6.3	6.9
19	9.1	7.9	8.8	8.6	7.9	8.3	---	---	---	8.8	6.4	7.2
20	9.4	8.6	9.1	9.5	8.1	8.6	---	---	---	10.3	6.4	7.7
21	9.7	8.9	9.4	10.1	8.4	8.9	7.6	7.1	7.3	8.6	6.5	7.4
22	9.9	9.0	9.5	8.6	7.8	8.2	7.7	7.3	7.5	9.0	6.3	7.4
23	9.4	9.0	9.3	8.6	8.1	8.4	7.9	7.3	7.5	10.2	6.3	7.5
24	9.4	8.8	9.1	8.6	8.3	8.5	8.1	7.4	7.6	10.6	7.1	8.1
25	9.6	8.8	9.3	8.4	8.1	8.3	7.7	7.4	7.5	10.5	7.6	8.7
26	9.5	8.6	9.1	8.2	7.8	8.0	8.2	7.2	7.6	9.3	6.7	8.2
27	9.6	9.0	9.2	8.6	7.8	8.1	7.8	7.0	7.3	8.1	6.2	7.1
28	9.3	8.4	8.9	8.4	8.2	8.3	7.9	7.1	7.4	7.5	6.1	6.6
29	---	---	---	8.4	8.2	8.4	7.9	7.2	7.4	6.6	5.7	6.0
30	---	---	---	8.5	8.0	8.2	7.9	7.3	7.5	6.5	5.4	5.8
31	---	---	---	8.4	7.9	8.1	---	---	---	6.5	5.3	6.0
MONTH	11.1	7.2	9.5	10.5	6.2	8.7	---	---	---	10.6	5.1	7.5

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	6.0	6.5	6.9	5.1	6.0	5.6	5.1	5.3	5.7	3.6	5.1
2	6.9	6.1	6.5	7.7	5.1	6.3	5.5	5.0	5.3	6.8	2.8	4.6
3	6.9	5.9	6.4	7.7	5.9	6.7	5.4	4.8	5.0	8.6	3.4	5.6
4	7.4	6.1	6.4	7.4	5.7	6.3	5.5	4.7	5.0	9.4	4.7	6.0
5	7.0	5.5	6.1	7.3	5.1	6.0	6.9	4.9	5.4	6.2	1.8	4.8
6	6.4	5.8	6.0	7.6	5.1	6.1	8.3	5.1	6.0	8.7	3.2	6.1
7	5.9	5.4	5.7	7.3	5.5	6.0	8.8	5.7	6.3	11.7	4.7	7.2
8	5.8	5.1	5.4	6.2	5.1	5.6	8.6	5.8	6.6	11.7	6.5	8.5
9	5.5	4.7	5.0	6.2	4.8	5.2	9.0	6.1	7.4	9.8	7.3	8.5
10	5.3	4.3	4.9	7.1	4.8	5.6	8.5	6.4	7.3	10.6	6.1	7.9
11	5.2	4.3	4.7	8.6	5.4	6.3	7.1	5.8	6.3	9.1	5.2	6.8
12	5.1	4.2	4.7	8.7	5.9	6.8	6.8	5.1	5.9	7.8	2.8	5.1
13	5.5	4.4	4.8	7.7	6.2	6.6	6.5	5.2	5.8	9.8	3.2	6.6
14	5.7	4.9	5.3	7.3	5.7	6.3	5.8	4.8	5.2	10.0	4.4	6.8
15	5.2	4.7	4.9	8.0	5.4	6.6	5.2	4.3	4.6	7.6	4.1	6.0
16	4.9	4.3	4.6	8.9	5.4	6.7	4.8	3.8	4.2	8.6	4.8	6.8
17	5.0	4.5	4.8	9.9	5.1	7.5	5.3	4.4	4.7	9.5	5.8	7.1
18	4.7	4.1	4.3	9.9	6.4	7.8	5.3	4.3	4.8	9.8	5.3	7.3
19	4.6	3.9	4.1	8.1	5.2	6.5	5.5	4.5	4.9	10.0	4.6	7.3
20	4.8	4.1	4.5	6.8	4.0	5.8	5.8	5.2	5.4	8.5	5.6	6.7
21	5.0	4.6	4.8	7.8	2.9	6.0	5.6	5.0	5.3	9.1	5.1	6.8
22	5.1	4.4	4.9	8.6	5.1	6.7	5.4	4.0	4.9	8.5	4.6	6.4
23	4.9	4.6	4.8	7.9	5.0	6.9	5.4	4.5	4.8	8.4	4.5	6.5
24	4.7	4.4	4.5	9.0	5.6	7.2	4.9	4.4	4.7	7.8	4.6	6.4
25	4.7	3.9	4.2	10.1	6.2	7.7	5.4	1.8	4.1	7.4	4.5	6.2
26	---	---	---	8.1	5.2	7.2	5.8	1.9	4.0	8.5	4.4	6.0
27	---	---	---	8.0	5.5	6.3	8.1	3.7	5.1	8.2	4.1	5.5
28	5.6	4.1	4.4	7.1	5.6	5.9	6.4	4.8	5.4	9.2	2.4	5.6
29	7.0	4.3	5.0	5.9	5.2	5.4	6.3	4.6	5.2	9.1	2.9	5.5
30	8.2	4.9	6.0	5.5	5.0	5.2	6.4	4.1	5.2	9.4	1.9	5.8
31	---	---	---	5.5	5.2	5.4	6.3	3.3	5.2	---	---	---
MONTH	---	---	---	10.1	2.9	6.3	9.0	1.8	5.3	11.7	1.8	6.4

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.8	5.1	5.6	6.3	4.0	5.1	9.4	8.1	8.9	---	---	---
2	5.7	5.1	5.3	5.0	1.3	3.0	9.5	8.8	9.2	---	---	---
3	5.3	5.0	5.2	4.4	.7	2.4	9.2	7.9	8.5	---	---	---
4	5.4	4.4	4.9	3.3	2.0	2.6	9.7	7.9	8.9	---	---	---
5	5.5	1.5	4.5	4.7	1.8	3.1	9.7	8.7	9.1	---	---	---
6	5.6	2.9	4.6	4.5	3.2	3.7	9.6	8.8	9.1	---	---	---
7	4.8	.4	2.0	3.8	2.4	3.1	9.7	8.9	9.2	---	---	---
8	1.3	.2	.8	2.5	1.2	1.8	9.4	8.5	9.0	---	---	---
9	5.3	.6	2.4	1.9	.5	.9	8.6	8.2	8.5	---	---	---
10	5.1	.0	1.7	4.9	.6	2.8	8.8	8.1	8.4	---	---	---
11	3.5	.1	1.1	7.3	4.1	5.5	8.7	8.1	8.4	---	---	---
12	1.9	.0	.3	6.9	4.6	5.5	8.4	7.8	8.1	---	---	---
13	.1	.0	.0	5.3	4.4	4.8	8.4	7.2	7.8	---	---	---
14	.1	.0	.0	5.0	2.9	4.2	7.6	6.8	7.2	---	---	---
15	.1	.0	.0	4.5	2.8	3.6	7.9	7.1	7.5	---	---	---
16	.4	.0	.0	6.3	3.8	4.8	7.6	6.6	7.0	---	---	---
17	1.0	.0	.1	5.6	2.6	3.7	8.7	6.7	7.7	---	---	---
18	.7	.0	.2	5.3	3.4	4.4	8.5	7.2	7.9	11.9	9.9	11.1
19	.4	.2	.3	4.9	4.0	4.4	7.5	6.8	7.1	10.4	9.6	10.0
20	.3	.2	.2	4.2	3.4	3.9	8.5	7.3	8.1	10.8	8.7	9.3
21	.3	.2	.2	5.8	3.9	4.8	---	---	---	10.9	7.8	9.6
22	.3	.2	.2	8.1	4.2	5.8	---	---	---	10.3	8.7	9.7
23	3.4	.2	1.0	9.8	5.1	8.0	---	---	---	9.5	8.5	9.0
24	1.1	.2	.3	9.0	8.4	8.7	---	---	---	8.9	7.7	8.2
25	.9	.2	.3	8.4	7.8	8.1	---	---	---	7.8	6.4	7.0
26	.3	.2	.3	9.1	8.1	8.7	---	---	---	10.6	6.2	8.8
27	3.6	.2	.8	9.2	8.0	8.5	---	---	---	9.6	7.9	8.9
28	5.7	.2	2.1	8.4	7.4	7.8	---	---	---	10.3	8.8	9.8
29	3.6	.2	1.7	9.0	7.1	7.9	---	---	---	9.2	7.7	8.6
30	6.7	.3	3.5	9.1	7.9	8.3	---	---	---	9.9	6.1	7.5
31	8.8	1.7	4.8	---	---	---	---	---	---	7.1	5.1	6.1
MONTH	8.8	.0	1.8	9.8	.5	5.0	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.6	4.4	6.3	8.7	5.0	7.8	8.7	8.4	8.6	7.1	6.6	6.9
2	9.1	6.1	7.7	8.5	1.8	5.7	8.7	8.2	8.5	7.4	6.6	6.9
3	8.7	7.3	8.1	7.2	1.2	2.1	8.3	7.8	8.0	7.2	6.8	7.0
4	8.9	7.3	8.0	7.2	1.3	2.7	7.9	7.6	7.8	8.3	7.0	7.3
5	8.6	5.8	6.9	8.0	4.7	7.3	7.7	7.4	7.6	7.8	7.1	7.3
6	7.5	5.4	6.1	8.6	7.6	8.2	7.6	7.2	7.4	9.0	7.0	7.8
7	8.0	4.9	5.7	10.8	8.5	9.4	7.5	6.8	7.1	9.2	7.4	8.2
8	10.2	5.7	7.2	10.2	9.6	10.0	7.1	6.4	6.7	8.6	7.3	7.9
9	10.6	5.9	7.3	10.4	7.8	9.9	6.5	5.9	6.1	8.4	6.6	7.6
10	10.5	6.6	8.2	10.2	7.4	8.0	6.1	5.3	5.6	8.2	6.8	7.3
11	9.9	7.2	8.1	7.7	7.0	7.4	5.6	4.7	5.0	8.2	6.9	7.4
12	8.8	6.1	7.2	9.5	6.8	7.5	4.8	4.4	4.6	8.7	7.1	7.6
13	7.0	5.4	6.1	9.9	6.5	9.2	4.9	4.4	4.7	8.5	7.0	7.5
14	9.0	5.5	6.5	9.8	8.3	9.3	5.4	4.5	4.9	8.6	4.0	7.2
15	8.0	6.2	6.8	9.5	7.4	9.0	5.6	5.2	5.4	7.9	5.4	6.9
16	6.7	5.0	5.8	9.0	8.5	8.8	7.0	5.3	5.9	8.4	3.4	4.9
17	8.6	5.1	6.8	8.7	7.3	8.2	7.0	5.4	6.0	7.8	5.7	7.2
18	8.5	6.2	7.1	8.8	7.7	8.3	7.5	5.3	6.1	7.3	4.8	6.4
19	7.1	5.6	6.1	8.4	7.4	7.9	7.2	6.4	6.7	8.4	2.5	3.9
20	8.9	4.5	5.8	9.8	7.7	8.6	7.1	6.4	6.7	9.1	6.6	7.4
21	10.0	4.3	7.7	10.2	8.7	9.1	7.3	6.8	7.0	8.5	6.7	7.6
22	9.7	4.2	7.4	8.8	8.3	8.6	7.3	6.7	7.1	8.5	6.6	7.4
23	9.6	3.5	5.5	8.8	8.6	8.7	7.3	6.8	7.1	9.5	6.4	7.5
24	8.8	3.2	3.9	8.8	8.6	8.7	7.6	6.9	7.2	8.9	6.6	7.4
25	9.5	3.3	7.9	8.6	8.4	8.5	7.5	7.0	7.2	10.6	7.5	8.7
26	9.5	7.2	9.0	8.4	8.1	8.2	7.4	5.6	6.9	10.8	8.6	9.7
27	9.5	7.6	9.1	9.1	8.1	8.5	7.1	6.2	6.7	9.6	8.0	8.7
28	9.1	6.1	8.4	8.9	8.6	8.8	7.4	6.7	6.9	9.0	6.5	7.7
29	---	---	---	9.0	8.7	8.8	7.2	6.6	6.8	7.8	5.8	7.1
30	---	---	---	8.9	8.1	8.5	7.1	6.8	6.9	7.7	4.6	6.7
31	---	---	---	8.7	8.2	8.4	---	---	---	8.6	4.8	7.0
MONTH	10.6	3.2	7.0	10.8	1.2	8.1	8.7	4.4	6.6	10.8	2.5	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	5.4	6.4	5.9	4.5	5.0	5.5	5.2	5.3	1.4	.0	.1
2	6.3	5.8	6.0	7.3	4.7	5.9	5.3	4.8	5.1	.2	.1	.1
3	6.2	5.3	5.8	7.1	1.9	5.9	5.0	4.5	4.8	.1	.1	.1
4	6.2	5.2	5.6	6.8	5.2	5.8	5.0	4.4	4.7	.2	.1	.2
5	6.0	5.3	5.6	6.1	4.2	5.2	5.6	4.5	4.9	.2	.2	.2
6	5.9	5.3	5.6	7.5	3.0	5.0	6.5	4.9	5.3	1.5	.2	.5
7	5.4	5.0	5.3	6.7	5.0	5.5	6.2	5.1	5.5	2.0	.1	.4
8	5.5	5.0	5.2	6.3	5.1	5.6	6.2	4.6	5.5	3.6	.1	.7
9	5.2	4.7	4.9	5.3	2.3	4.3	6.7	5.0	5.4	5.0	.2	1.8
10	5.2	4.5	4.9	4.3	1.8	2.8	6.8	5.3	5.8	2.5	.2	.8
11	5.1	4.6	4.8	6.9	3.5	4.5	6.3	5.4	5.8	4.1	.3	2.8
12	4.8	4.5	4.7	7.0	5.2	6.1	6.1	4.9	5.5	3.3	.2	1.7
13	5.3	4.4	4.8	7.3	5.9	6.5	5.9	4.9	5.3	2.7	.2	.7
14	5.8	5.0	5.3	6.5	2.1	4.0	5.7	4.5	4.9	4.9	1.1	2.5
15	5.3	4.7	5.0	6.0	3.2	4.7	4.8	3.8	4.3	6.3	2.6	4.9
16	4.9	4.3	4.7	4.9	1.3	2.7	4.7	3.8	4.2	7.0	1.9	5.3
17	5.1	4.6	4.9	2.1	.8	1.3	5.0	3.9	4.5	6.8	5.0	5.9
18	4.8	4.2	4.5	1.5	.8	.9	5.0	4.3	4.7	5.8	4.2	4.9
19	4.2	3.9	4.1	5.4	1.3	3.6	5.3	4.4	4.9	7.3	2.0	3.8
20	4.0	3.7	3.9	4.4	.4	1.7	5.7	4.9	5.3	7.8	5.3	6.3
21	3.8	3.6	3.7	4.8	.5	1.9	5.6	4.9	5.2	7.3	4.0	5.7
22	3.8	3.6	3.7	6.0	2.1	3.7	5.1	.1	1.6	6.8	3.4	5.0
23	3.7	3.5	3.6	6.7	3.9	5.0	4.1	.0	1.3	6.2	3.0	4.4
24	3.8	3.4	3.5	5.0	3.2	4.1	4.6	.2	2.4	6.2	3.5	4.6
25	3.9	3.2	3.3	6.0	2.7	3.8	.5	.1	.2	5.7	3.7	4.3
26	3.8	3.0	3.2	6.5	1.6	3.3	.2	.2	.2	4.5	3.0	3.6
27	3.9	3.2	3.5	6.6	3.8	5.5	1.7	.2	.4	3.7	2.0	2.8
28	4.1	3.5	3.8	6.2	5.2	5.8	1.7	.3	.4	3.6	.8	1.9
29	4.4	3.4	4.1	5.9	5.1	5.3	3.6	.3	1.4	1.8	.4	1.0
30	5.3	4.2	4.7	5.3	5.0	5.2	4.0	.3	2.6	4.9	.6	2.1
31	---	---	---	5.5	5.2	5.3	2.9	.0	.7	---	---	---
MONTH	7.6	3.0	4.6	7.5	.4	4.4	6.8	.0	3.8	7.8	.0	2.6

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	68	62	64	77	44	58	77	72	75	---	---	---
2	66	60	62	67	29	43	77	68	73	---	---	---
3	62	59	61	56	19	35	77	68	74	---	---	---
4	67	57	60	51	20	30	78	67	73	---	---	---
5	68	60	64	49	20	33	79	69	72	---	---	---
6	71	64	67	71	27	36	76	68	71	---	---	---
7	72	57	66	46	22	31	74	66	70	---	---	---
8	69	31	58	57	22	36	75	69	72	---	---	---
9	69	34	61	70	29	46	76	67	73	---	---	---
10	74	56	66	120	39	49	76	64	71	---	---	---
11	97	52	67	69	43	54	74	65	70	---	---	---
12	93	49	70	---	---	---	77	68	73	---	---	---
13	108	8	57	---	---	---	78	70	74	---	---	---
14	112	6	66	---	---	---	76	67	73	---	---	---
15	105	51	74	---	---	---	74	68	71	---	---	---
16	119	21	64	---	---	---	79	64	71	---	---	---
17	77	5	45	69	49	63	75	71	73	---	---	---
18	69	5	43	73	47	61	73	70	71	115	95	102
19	61	6	34	65	49	57	73	68	71	116	93	102
20	93	1	24	79	54	67	74	68	71	105	91	97
21	135	2	44	73	57	68	73	70	72	107	92	98
22	103	4	44	81	72	76	---	---	---	118	87	96
23	96	23	62	88	69	77	---	---	---	109	81	93
24	114	7	45	77	69	73	---	---	---	99	72	87
25	118	5	44	84	68	75	---	---	---	95	87	90
26	101	7	42	81	71	73	---	---	---	106	81	92
27	102	8	39	80	72	75	---	---	---	96	88	92
28	81	9	47	80	72	74	---	---	---	97	74	88
29	101	27	59	80	69	73	---	---	---	97	81	89
30	91	21	60	80	74	77	---	---	---	94	89	92
31	80	43	64	---	---	---	---	---	---	96	88	92
MONTH	135	1	56	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	94	83	89	81	73	77	81	79	80	90	79	83
2	92	75	86	79	74	76	81	77	79	93	80	84
3	90	71	82	77	56	72	77	72	75	106	77	85
4	85	72	81	76	59	71	73	70	71	116	80	92
5	89	77	84	76	68	73	71	69	70	126	83	95
6	88	76	84	84	72	79	72	68	70	106	89	97
7	91	74	83	89	75	81	71	68	69	111	86	96
8	92	82	87	87	82	84	71	65	67	104	83	93
9	95	85	89	89	83	86	66	61	63	98	83	89
10	93	87	90	88	81	86	---	---	---	100	79	85
11	89	78	84	89	83	86	---	---	---	110	82	90
12	89	82	85	87	78	84	---	---	---	109	84	91
13	83	64	77	90	83	87	---	---	---	102	85	91
14	89	67	78	89	84	87	---	---	---	109	86	96
15	90	81	86	88	82	85	---	---	---	95	81	87
16	90	73	85	84	79	82	---	---	---	109	58	86
17	88	69	83	82	80	81	---	---	---	96	74	82
18	86	75	81	82	76	79	---	---	---	96	71	78
19	83	72	80	83	76	80	---	---	---	104	73	83
20	85	77	81	88	77	81	---	---	---	125	75	92
21	88	79	84	94	79	83	81	73	76	103	77	88
22	87	78	83	81	73	77	85	76	80	111	74	89
23	82	77	80	82	76	79	89	77	82	124	76	91
24	81	76	79	83	78	80	93	80	84	131	85	98
25	84	76	80	80	75	78	86	79	82	130	91	107
26	85	77	81	77	73	75	88	76	81	114	81	100
27	84	80	82	79	72	75	85	74	79	100	74	86
28	83	76	79	78	75	76	88	76	81	91	74	79
29	---	---	---	77	75	76	85	76	80	79	68	72
30	---	---	---	78	75	76	87	77	80	77	64	70
31	---	---	---	80	75	78	---	---	---	78	63	71
MONTH	95	64	83	94	56	80	---	---	---	131	58	88

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	84	71	76	91	66	79	67	60	64	72	45	64
2	83	73	77	99	66	81	67	59	63	87	35	58
3	85	71	77	98	75	85	68	57	60	109	43	71
4	92	73	78	97	72	81	69	56	61	118	59	75
5	88	67	74	96	66	77	89	59	67	79	22	61
6	79	70	74	99	66	79	109	64	76	110	40	77
7	73	67	70	96	70	78	116	72	80	151	59	91
8	72	63	67	79	64	71	115	75	86	151	81	109
9	69	57	62	80	60	67	123	80	98	125	93	108
10	66	52	61	94	61	73	116	84	97	137	78	100
11	64	53	58	114	71	83	95	76	84	116	66	87
12	65	51	57	116	77	89	91	66	78	98	35	64
13	70	55	60	101	80	86	87	68	76	122	40	83
14	71	61	65	93	71	80	77	62	68	126	55	84
15	64	57	60	103	69	84	67	55	59	91	50	73
16	59	53	55	115	69	86	62	48	53	102	57	81
17	60	54	57	131	65	96	70	56	60	113	69	84
18	55	49	52	129	81	100	68	55	61	118	63	87
19	56	47	49	105	66	84	71	57	63	122	54	88
20	59	48	54	88	51	74	73	65	68	103	67	81
21	60	55	57	100	37	76	70	62	66	113	62	82
22	61	54	59	111	64	85	68	50	61	106	56	79
23	60	55	58	103	64	88	70	56	61	105	55	81
24	57	53	55	117	72	92	62	55	59	97	57	80
25	59	48	52	134	80	100	68	22	51	91	56	76
26	---	---	---	104	67	93	73	24	51	102	52	71
27	---	---	---	102	70	80	105	47	64	98	49	65
28	73	51	56	89	70	74	83	60	68	110	28	66
29	92	54	64	74	62	65	80	58	66	107	34	64
30	108	62	77	66	59	61	81	51	66	106	22	67
31	---	---	---	67	61	63	81	42	66	---	---	---
MONTH	---	---	---	134	37	81	123	22	68	151	22	79

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	63	54	60	66	42	53	84	71	79	---	---	---
2	61	54	58	52	14	31	84	78	82	---	---	---
3	58	55	57	46	8	25	82	70	75	---	---	---
4	60	49	54	34	20	26	80	70	75	---	---	---
5	61	17	50	48	18	32	80	73	76	---	---	---
6	64	33	52	46	32	38	79	74	76	---	---	---
7	55	5	22	39	25	31	81	73	77	---	---	---
8	14	3	9	26	13	18	78	71	75	---	---	---
9	57	7	26	19	5	9	72	69	71	---	---	---
10	55	0	18	52	6	30	74	68	71	---	---	---
11	37	1	12	75	43	57	73	68	70	---	---	---
12	20	0	3	71	47	56	70	66	68	---	---	---
13	1	0	0	54	45	49	71	61	66	---	---	---
14	1	0	0	51	29	42	65	58	61	---	---	---
15	1	0	0	44	28	36	67	61	64	---	---	---
16	4	0	1	62	38	48	66	57	61	---	---	---
17	11	0	1	55	26	37	75	58	66	---	---	---
18	7	0	2	52	33	43	72	63	68	96	80	89
19	5	2	3	47	39	43	66	59	62	85	78	81
20	3	2	3	41	33	37	71	63	68	93	71	77
21	3	2	3	54	37	45	---	---	---	93	65	81
22	3	2	3	71	40	53	---	---	---	87	74	82
23	37	2	11	83	47	70	---	---	---	81	73	77
24	12	2	4	78	72	74	---	---	---	75	65	70
25	9	2	3	73	67	70	---	---	---	66	54	59
26	3	2	3	79	70	76	---	---	---	87	52	74
27	39	2	8	79	69	74	---	---	---	79	66	73
28	62	3	23	73	65	68	---	---	---	84	73	80
29	39	3	19	80	63	70	---	---	---	75	63	70
30	71	3	37	81	70	74	---	---	---	82	50	62
31	92	18	51	---	---	---	---	---	---	58	42	50
MONTH	92	0	19	83	5	47	---	---	---	---	---	---

02084472 PAMLICO RIVER AT WASHINGTON, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	74	37	53	78	45	70	83	80	82	77	71	73
2	79	52	66	77	17	51	83	78	81	79	72	75
3	75	63	70	66	11	19	79	73	77	80	74	77
4	76	63	69	65	12	24	74	71	73	95	77	81
5	73	50	59	72	43	66	72	70	71	89	79	83
6	65	47	52	74	67	72	72	69	70	104	80	89
7	68	42	49	91	73	79	72	67	69	106	82	93
8	87	49	62	88	81	86	71	65	67	98	81	90
9	93	51	64	90	66	86	66	61	64	98	75	86
10	92	58	72	87	63	68	65	57	60	95	77	84
11	89	65	73	66	60	63	61	51	55	98	80	87
12	78	55	66	85	59	65	54	50	52	104	83	89
13	63	49	55	92	56	85	56	50	53	101	82	89
14	81	49	58	92	78	88	61	51	56	102	47	84
15	72	56	61	90	70	86	63	58	60	92	62	80
16	60	45	52	86	80	84	77	58	65	98	39	57
17	80	46	62	84	71	79	76	58	65	89	65	81
18	78	57	66	85	75	80	77	55	63	82	53	71
19	65	51	56	81	72	76	73	65	68	100	28	44
20	80	41	53	91	73	81	74	66	69	110	77	87
21	89	40	69	95	81	85	77	69	72	102	80	91
22	85	38	66	83	78	80	78	70	74	104	78	88
23	83	31	49	84	80	82	80	72	76	116	76	90
24	76	28	35	85	80	82	85	74	79	108	78	88
25	83	29	69	82	78	80	82	76	79	130	90	105
26	84	65	80	78	75	76	78	59	73	132	104	118
27	84	68	81	84	74	78	76	66	71	117	96	105
28	82	54	76	82	79	81	83	72	75	110	79	92
29	---	---	---	82	79	81	79	70	73	93	69	85
30	---	---	---	81	76	79	76	71	73	92	55	80
31	---	---	---	84	77	80	---	---	---	102	58	83
MONTH	93	28	62	95	11	74	85	50	69	132	28	85

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	89	63	75	77	57	65	66	61	63	17	0	2
2	74	68	70	94	60	76	63	57	60	2	1	1
3	75	63	69	90	24	74	61	54	57	1	1	1
4	74	62	68	87	65	74	62	53	57	3	1	2
5	74	63	68	79	54	66	70	55	60	3	3	3
6	73	64	68	97	39	65	83	60	67	19	3	6
7	67	61	65	87	64	71	80	64	69	26	1	5
8	68	61	64	82	64	71	80	59	70	45	1	9
9	64	57	61	66	29	54	89	65	71	63	2	23
10	64	55	60	54	22	35	90	69	77	32	3	10
11	63	56	59	90	46	59	85	71	77	52	4	36
12	60	55	57	92	68	79	82	64	72	42	2	22
13	66	54	59	95	76	84	79	65	70	34	2	9
14	73	61	66	83	26	51	75	57	64	61	14	32
15	66	57	61	76	41	60	63	48	55	76	33	60
16	60	52	56	62	16	35	61	48	53	83	24	63
17	62	55	58	27	10	16	63	49	56	81	59	70
18	56	50	53	20	10	12	64	54	60	68	50	58
19	51	47	49	69	17	46	67	55	61	88	24	46
20	48	44	46	56	5	22	72	62	67	94	63	75
21	46	43	44	60	6	24	70	61	65	90	48	69
22	46	44	45	76	26	47	64	1	20	83	41	61
23	45	42	44	85	50	64	51	0	16	76	36	54
24	46	41	43	64	41	52	57	2	30	78	44	57
25	48	39	40	78	35	49	7	1	2	71	46	54
26	47	36	40	84	21	43	3	3	3	53	35	44
27	49	39	43	83	49	70	21	3	5	44	23	33
28	52	44	47	77	65	72	21	4	5	42	9	22
29	57	42	52	74	60	64	46	4	18	21	5	11
30	69	53	60	63	59	61	51	4	33	56	7	24
31	---	---	---	66	61	63	37	0	9	---	---	---
MONTH	89	36	56	97	5	56	90	0	48	94	0	32

0208453300 PAMLICO RIVER AT LIGHT 5

LOCATION.--Lat 35°25'51", long 76°50'30", 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. 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	13.7, January 16, 17, August 30, 2001	<0.1, on several days during the period
SALINITY (BOTTOM), ppt	17.9, September 27, 29, 30, 2001	<0.1 April 12, 1990, October 22-26, 1999
pH (TOP), standard units	9.2, August 4, 2001	6.2, October 22, 23, 24, 1999
pH (BOTTOM), standard units	8.8, April 1, 2000	5.9, October 23, 1999
WATER TEMPERATURE (TOP), °C	33.1, July 31, 1999	0.0, December 3, 1989
WATER TEMPERATURE (BOTTOM), °C	30.5, July 24, 1999	1.7, January 28, 2000
DISSOLVED OXYGEN (TOP), mg/L	18.5, February 5, 1991	<1.0, on several 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	13.7, January 16, 17, August 30	0.3, June 23
SALINITY (BOTTOM), ppt	17.9, September 27, 29, 30	1.6, June 27
pH (TOP), standard units	9.2, August 4	6.7, June 5, 22, July 1, 12
pH (BOTTOM), standard units	8.6, October 11	6.2, June 26, 27
WATER TEMPERATURE (TOP), °C	31.5, August 10	1.2, January 4
WATER TEMPERATURE (BOTTOM), °C	29.6, July 15	2.0, January 4
DISSOLVED OXYGEN (TOP), mg/L	15.8, August 4	<1.0, July 1, August 6, 9, 10, 11, 30
DISSOLVED OXYGEN (BOTTOM), mg/L	13.3, January 18	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	≥200, August 4	<10, July 1, August 6, 9, 10, 11, 30
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	107, January 20	<10, on many days during the year

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAM-PLING DEPTH (FEET) (00003)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)
MAY													
03...	1500	--	3.10	22.0	9340	9.8	8.3	--	--	2.1	--	--	<.1
03...	1507	--	5.80	20.8	9370	9.3	8.2	--	--	1.4	--	--	<.1
31...	1200	--	4.00	23.5	12400	7.4	7.8	--	--	2.0	--	--	--
31...	1207	--	6.50	23.5	1250	6.9	7.7	--	--	1.1	--	--	--
31...	1500	--	4.00	23.8	12400	6.7	7.6	--	--	2.1	--	--	11.0
31...	1507	--	6.50	23.6	12700	5.1	7.2	--	--	.88	--	--	9.3
JUN													
13...	1600	--	4.00	28.3	10200	6.9	7.8	--	--	1.8	--	--	<.1
13...	1607	--	7.00	27.1	13100	4.3	7.1	--	--	1.9	--	--	<.1
28...	1200	.60	3.50	28.3	2110	6.8	7.9	.016	.001	.96	.005	.022	7.6
28...	1207	.60	6.00	28.0	2100	6.6	7.6	.012	<.001	5.0	.007	.016	<.1
JUL													
25...	1600	.90	2.00	28.4	15500	7.2	7.7	.043	<.001	.39	.006	.049	4.0
25...	1607	.90	5.50	28.1	15500	6.5	7.7	.043	<.001	.39	.006	.049	4.0
AUG													
01...	1100	--	3.00	25.4	11500	8.6	8.4	.025	<.001	.79	.006	.052	6.2
01...	1107	--	6.00	25.4	11400	8.1	8.3	.033	<.001	.74	.006	.051	4.6
17...	1400	--	2.00	30.0	11600	8.1	8.2	.026	<.001	.61	<.005	.101	2.2
17...	1407	--	5.50	28.6	12000	10.1	8.5	.019	<.001	.67	<.005	.108	5.2
23...	1100	--	1.00	28.5	10200	8.3	8.3	.023	<.001	.55	.005	.088	--
23...	1107	--	4.50	27.7	10300	7.3	8.2	.040	<.001	.67	.005	.096	--
30...	1300	--	1.00	26.9	10900	7.1	7.8	E.021	E.001	.78	<.005	E.080	11.6
30...	1307	--	4.50	26.6	11600	6.1	7.6	E.147	<.001	.25	<.005	E.203	3.9
SEP													
06...	1000	--	2.50	26.4	18200	6.7	7.9	.065	.003	.43	.008	.134	1.9
06...	1007	--	7.00	26.4	18200	6.7	7.9	.058	.001	.42	.009	.133	2.9
13...	1000	--	2.00	26.1	18600	6.8	7.9	.067	.004	.46	.007	.112	2.5
13...	1007	--	5.50	26.0	18700	6.5	7.9	.070	.002	.49	.008	.111	3.1
20...	1100	--	2.00	23.2	17800	7.0	8.0	.077	.001	.37	.009	.089	.2
20...	1107	--	6.00	23.2	18200	6.4	7.9	.069	.001	.50	.009	.085	.2
27...	1300	--	2.50	22.7	17900	8.2	8.4	.055	<.002	<.10	<.013	.051	--
27...	1307	--	6.00	22.6	18400	7.0	8.0	.054	<.002	.13	<.013	.056	--

DATE	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
MAY													
03...	--	2.1	.02	.01	<.02	.050	.010	--	.03	--	--	--	--
03...	--	1.4	.02	.01	<.02	.030	.020	--	.03	--	--	--	--
31...	--	2.0	.02	<.01	<.02	.060	.050	--	.03	--	--	--	--
31...	--	--	<.01	<.01	<.02	.050	.050	--	--	--	--	--	--
31...	--	2.1	.02	<.01	<.02	.050	.040	--	.03	--	--	--	--
31...	--	.87	.01	<.01	<.02	.070	.040	--	.01	--	--	--	--
JUN													
13...	--	1.7	.09	<.01	<.02	.090	.070	--	.12	--	--	--	--
13...	--	1.8	.06	<.01	<.02	.270	.130	--	.08	--	--	--	--
28...	E.3	.94	--	--	--	.112	--	.02	--	.004	.018	.003	.97
28...	<.1	5.0	--	--	--	.090	--	.02	--	--	--	--	5.0
JUL													
25...	<.1	.35	--	--	--	.078	--	.06	--	--	--	--	.40
25...	<.1	.35	--	--	--	.078	--	.06	--	--	--	--	.40
AUG													
01...	.4	.77	--	--	--	--	--	.03	--	--	--	--	.80
01...	E.2	.70	--	--	--	--	--	.04	--	--	--	--	.74
17...	<.1	.59	--	--	--	--	--	.03	--	--	--	--	--
17...	<.1	.65	--	--	--	--	--	.02	--	--	--	--	--
23...	--	.52	--	--	--	--	--	.03	--	--	--	--	.55
23...	--	.63	--	--	--	--	--	.05	--	--	--	--	.67
30...	.6	--	--	--	--	--	--	--	--	--	--	--	--
30...	<.1	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	<.1	.37	--	--	--	--	--	.08	--	.005	.022	.010	.44
06...	<.1	.36	--	--	--	--	--	.07	--	.008	.035	.003	.43
13...	<.1	.39	--	--	--	--	--	.09	--	.003	.013	.013	.46
13...	<.1	.42	--	--	--	--	--	.09	--	.006	.027	.007	.50
20...	<.1	.29	--	--	--	--	--	.10	--	.008	.035	.003	.38
20...	<.1	.43	--	--	--	--	--	.09	--	.008	.035	.003	.51
27...	--	--	--	--	--	--	--	.07	--	--	--	--	--
27...	--	.07	--	--	--	--	--	.07	--	--	--	--	--

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHATE, TOTAL (MG/L AS PO4) (00650)
MAY		
03...	--	.031
03...	--	.061
31...	--	.153
31...	--	.153
31...	--	.123
31...	--	.123
JUN		
13...	--	.215
13...	--	.399
28...	.067	--
28...	.049	--
JUL		
25...	.150	--
25...	.150	--
AUG		
01...	.159	--
01...	.156	--
17...	.310	--
17...	.331	--
23...	.270	--
23...	.294	--
30...	--	--
30...	--	--
SEP		
06...	.411	--
06...	.408	--
13...	.343	--
13...	.340	--
20...	.273	--
20...	.261	--
27...	.156	--
27...	.172	--

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	3.9	2.9	3.5	11.2	10.4	10.8	11.0	9.3	10.2	10.4	10.2	10.3
2	4.9	1.8	2.4	11.0	10.5	10.7	11.6	9.7	10.6	10.4	9.7	10.0
3	6.5	1.7	2.7	10.9	10.1	10.3	11.5	9.6	10.9	10.6	9.5	9.8
4	6.3	1.8	3.1	11.6	10.1	10.7	10.6	7.0	9.0	10.4	9.3	9.7
5	7.8	2.4	5.8	12.2	9.1	10.7	10.4	8.0	9.3	10.9	9.3	10.1
6	6.3	3.1	4.0	12.3	9.8	11.0	11.8	7.2	9.6	10.2	9.2	9.5
7	7.4	2.9	4.6	12.6	10.1	11.7	11.7	7.0	9.3	10.1	8.8	9.3
8	6.9	3.1	4.1	12.5	11.3	12.0	10.7	8.6	9.5	9.8	8.8	9.2
9	7.8	3.4	5.7	12.3	11.3	11.7	11.5	8.7	9.7	10.0	8.9	9.2
10	9.8	6.2	7.9	12.2	9.8	11.4	11.6	9.3	10.4	12.0	9.3	10.4
11	9.8	8.5	9.3	11.9	10.8	11.0	11.3	8.6	10.1	11.7	10.2	10.7
12	9.6	8.0	8.8	12.8	11.0	11.8	11.6	9.0	10.2	11.5	10.3	10.8
13	9.2	7.4	8.1	12.9	11.2	12.0	11.4	9.7	10.5	12.6	10.9	12.0
14	9.7	6.9	8.4	12.0	10.6	11.5	11.7	9.8	10.6	12.6	11.8	12.2
15	11.0	6.9	8.2	12.4	10.6	11.0	10.9	9.7	10.4	13.6	9.4	11.5
16	11.7	8.4	10.2	12.3	10.9	11.7	11.1	9.7	10.1	13.7	9.3	10.8
17	11.5	8.0	10.1	12.2	10.8	11.3	11.9	9.7	10.8	13.7	9.8	12.0
18	10.4	8.5	9.1	12.1	11.3	11.8	11.2	9.2	10.2	13.5	9.8	11.9
19	9.7	8.1	8.7	11.8	10.9	11.3	10.6	9.2	9.5	13.5	11.1	12.5
20	9.8	8.1	8.7	11.7	10.6	11.0	10.0	8.7	9.3	13.2	10.2	11.3
21	12.7	7.9	9.9	11.2	9.8	10.5	10.0	9.0	9.4	10.9	10.1	10.4
22	12.6	8.2	9.7	12.6	10.0	10.8	9.9	7.5	8.1	12.1	10.2	11.1
23	12.6	7.2	10.4	12.6	11.3	11.8	10.2	7.6	8.8	12.2	10.6	11.8
24	11.4	4.9	10.1	12.0	11.8	11.9	10.3	7.3	8.7	11.7	9.5	10.6
25	10.4	9.7	10.0	11.9	11.7	11.8	9.4	6.5	7.3	11.5	7.4	9.0
26	11.2	9.3	10.3	11.8	10.8	11.3	10.5	5.7	7.8	12.6	8.3	10.6
27	11.0	6.3	10.5	11.7	11.3	11.5	10.4	6.7	8.3	12.6	9.5	10.6
28	10.7	6.6	10.4	11.8	9.7	11.3	12.0	5.0	7.7	11.0	10.6	10.8
29	11.5	9.9	10.8	11.8	9.4	10.7	11.8	6.8	9.2	11.8	9.9	10.7
30	11.4	9.9	10.6	11.7	9.3	10.1	10.9	7.8	9.0	12.4	10.6	11.4
31	11.2	10.0	10.8	---	---	---	10.6	9.4	10.2	11.3	10.4	10.9
MONTH	12.7	1.7	8.0	12.9	9.1	11.2	12.0	5.0	9.5	13.7	7.4	10.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.2	10.2	10.7	9.6	6.1	7.7	6.7	1.1	4.0	6.4	5.2	5.5
2	10.9	8.4	9.9	9.4	5.6	6.3	5.4	2.1	3.1	6.7	4.4	5.0
3	11.5	8.2	9.5	10.6	4.5	7.0	5.4	2.7	3.8	6.6	4.6	5.0
4	12.3	9.5	10.8	10.6	6.0	8.0	6.9	2.0	4.3	6.1	4.7	5.2
5	10.6	9.0	9.6	9.5	5.5	6.5	6.8	1.9	3.7	5.3	4.3	5.0
6	10.3	9.0	9.6	7.2	3.8	5.5	3.2	1.4	2.1	6.9	4.2	5.6
7	11.8	8.6	9.4	10.3	6.7	8.3	2.6	1.0	1.2	7.0	6.1	6.6
8	11.6	9.3	10.2	13.0	8.2	9.5	2.6	.7	1.4	7.0	5.9	6.4
9	11.5	9.0	9.9	9.6	7.3	8.3	9.0	.9	2.3	7.2	5.3	6.0
10	10.3	9.2	9.7	8.1	5.9	7.0	11.4	1.2	4.7	6.2	4.4	5.3
11	10.6	9.3	10.0	8.9	5.4	7.3	5.9	4.0	4.8	8.0	4.3	5.2
12	10.5	9.3	9.9	12.2	6.8	9.6	4.6	3.6	4.0	6.5	4.9	5.2
13	9.8	9.1	9.4	11.3	7.4	9.0	4.5	2.3	3.4	5.6	4.7	5.3
14	10.6	8.3	9.2	9.7	8.5	9.0	3.9	2.4	3.1	6.8	4.9	5.4
15	9.0	8.0	8.4	9.8	8.3	9.0	3.6	2.3	2.8	6.8	5.3	5.9
16	9.4	8.1	8.6	9.7	8.3	9.1	4.9	2.8	3.9	8.4	5.4	6.1
17	9.5	8.6	9.1	9.2	7.8	8.5	6.0	3.5	5.3	7.3	6.4	6.8
18	9.6	8.7	9.2	9.4	7.1	8.0	6.4	4.5	5.7	7.1	6.7	6.8
19	10.0	9.2	9.4	9.9	7.5	8.6	6.7	6.0	6.4	7.0	6.1	6.5
20	9.2	7.3	8.5	10.3	8.4	9.0	6.6	6.0	6.4	8.5	6.5	7.0
21	8.4	6.5	7.6	10.7	7.1	8.4	6.4	5.9	6.3	7.3	6.6	7.0
22	10.6	6.9	8.5	7.1	6.0	6.5	6.4	5.3	6.0	7.4	6.7	7.0
23	8.4	6.9	7.5	7.6	5.5	6.3	5.8	5.2	5.5	7.6	6.7	7.1
24	11.7	7.5	8.8	7.0	5.4	6.2	6.1	5.2	5.6	8.1	6.2	6.8
25	10.0	8.8	9.3	7.2	5.4	6.6	6.1	5.0	5.7	7.9	6.6	7.2
26	9.2	7.0	8.4	7.0	4.9	5.7	6.6	5.6	6.0	7.5	6.5	7.1
27	10.4	6.6	8.2	5.4	3.5	4.2	6.7	5.2	5.7	7.2	6.4	6.8
28	9.5	6.6	8.4	6.9	3.8	4.5	6.4	4.9	5.7	7.0	6.4	6.7
29	---	---	---	5.2	3.5	4.3	6.8	5.9	6.4	6.9	6.1	6.4
30	---	---	---	3.9	1.7	2.6	6.7	5.6	6.0	8.5	5.5	6.0
31	---	---	---	2.2	.9	1.4	---	---	---	8.9	6.5	7.1
MONTH	12.3	6.5	9.2	13.0	.9	7.0	11.4	.7	4.5	8.9	4.2	6.2

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	6.6	6.9	8.8	2.0	3.4	8.4	6.2	7.2	10.4	8.7	9.4
2	6.7	5.6	6.2	7.9	4.3	6.1	7.8	5.8	6.6	13.0	9.5	10.3
3	6.0	5.3	5.6	7.6	6.3	7.0	6.5	4.6	5.6	10.6	10.1	10.3
4	7.6	5.3	6.0	7.3	6.9	7.1	7.0	4.0	5.4	10.6	9.9	10.3
5	8.8	5.3	6.0	7.7	6.9	7.2	7.8	3.5	5.1	10.4	9.7	10.1
6	6.5	4.9	5.6	9.3	6.5	7.2	7.7	3.7	4.9	11.3	10.1	10.6
7	6.0	4.2	4.8	7.9	7.2	7.6	8.4	3.0	4.8	11.3	10.2	10.7
8	6.4	4.8	5.6	7.5	6.8	7.2	8.4	3.5	5.9	11.4	10.6	11.0
9	5.8	4.4	5.1	7.6	7.1	7.3	9.8	3.2	5.4	11.5	10.6	11.1
10	6.2	3.9	4.9	7.8	6.8	7.4	9.3	3.4	5.8	11.2	10.5	10.7
11	6.3	3.6	4.9	7.4	6.3	7.0	7.9	4.5	6.0	11.1	10.4	10.7
12	10.8	3.4	4.6	9.4	6.2	7.5	7.4	5.1	5.8	11.2	10.5	10.8
13	8.7	3.5	6.0	8.1	7.6	7.9	6.3	5.5	5.8	11.3	10.6	11.1
14	7.6	6.6	7.1	8.1	7.3	7.6	7.1	5.8	6.2	11.4	10.6	10.9
15	7.2	5.4	6.1	8.2	6.6	7.1	6.4	5.8	6.1	11.9	11.4	11.6
16	6.1	5.0	5.6	8.8	6.0	6.7	8.1	6.2	6.8	12.0	11.5	11.8
17	5.0	3.3	4.5	7.8	5.8	6.4	8.1	5.1	6.2	11.8	10.6	11.4
18	4.7	2.1	3.1	10.0	5.8	6.3	6.4	4.5	5.4	11.8	10.5	11.3
19	5.8	2.2	3.6	10.0	6.4	7.0	7.3	4.6	5.5	12.2	10.7	11.4
20	3.9	.7	2.1	9.0	7.0	8.1	7.8	4.9	5.2	11.3	10.4	10.9
21	4.9	.5	1.4	9.3	8.5	8.9	7.8	5.3	5.8	11.5	10.2	10.6
22	2.9	.4	.7	9.4	8.4	8.8	8.1	5.4	6.2	12.4	9.8	10.5
23	1.0	.3	.7	9.2	8.4	8.7	7.5	5.0	5.9	12.6	9.7	10.8
24	3.6	.4	.7	8.8	8.3	8.5	5.4	4.1	4.7	11.6	10.4	10.9
25	2.3	.7	1.2	8.9	8.2	8.6	8.0	4.3	5.7	10.7	10.4	10.6
26	2.5	.8	1.7	8.8	8.1	8.4	9.0	4.8	6.1	11.5	10.0	10.4
27	2.1	.9	1.4	9.0	8.3	8.6	9.0	5.1	6.6	11.7	10.6	10.9
28	1.4	.7	.9	8.8	8.5	8.7	9.1	5.1	5.8	11.2	10.1	10.6
29	3.8	.7	1.4	8.8	8.2	8.6	9.9	5.7	7.0	11.0	9.3	9.8
30	5.9	1.4	2.3	8.5	7.0	7.7	13.7	6.3	8.9	12.4	9.5	10.5
31	---	---	---	8.5	5.9	6.7	10.7	7.2	8.3	---	---	---
MONTH	10.8	.3	3.9	10.0	2.0	7.5	13.7	3.0	6.0	13.0	8.7	10.7

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.0	3.2	7.5	11.5	10.9	11.2	11.7	10.4	11.4	10.6	10.3	10.4
2	10.2	3.4	8.7	12.2	10.8	11.3	11.7	10.5	11.4	10.9	9.8	10.2
3	8.2	7.0	7.5	12.4	11.8	12.2	11.6	9.6	10.9	11.5	9.9	11.1
4	8.3	7.0	7.6	12.6	11.9	12.3	11.5	9.9	10.9	13.3	10.4	11.3
5	8.6	7.2	8.1	12.6	11.1	12.1	12.2	10.5	11.5	13.8	10.2	11.7
6	12.7	6.9	8.6	12.6	12.2	12.4	12.1	10.4	11.8	14.1	10.8	13.7
7	14.2	12.1	13.5	12.7	12.6	12.7	12.6	11.7	12.2	14.1	13.9	14.0
8	14.8	13.7	14.2	12.7	12.5	12.6	12.7	9.9	12.5	14.1	12.2	13.9
9	14.9	10.1	13.8	12.7	11.5	12.4	12.8	11.4	12.5	14.6	9.8	13.8
10	14.0	8.6	11.1	13.0	11.1	12.0	12.3	9.7	11.4	14.8	9.8	12.7
11	11.9	9.2	10.2	13.0	11.1	11.9	12.9	11.1	12.3	13.2	11.9	12.8
12	11.1	8.4	10.1	13.0	12.4	12.7	12.6	9.9	11.2	13.8	11.1	13.2
13	11.2	10.7	11.0	13.0	12.4	12.8	13.6	10.3	12.0	13.7	11.1	12.5
14	11.6	10.9	11.2	12.8	10.9	12.3	13.2	10.0	11.4	13.7	12.8	13.3
15	12.8	11.1	12.2	13.3	11.0	12.1	13.1	10.0	11.0	13.9	12.5	13.7
16	13.0	12.4	12.8	13.5	12.4	13.2	13.9	9.9	12.4	13.9	12.2	13.6
17	12.8	12.3	12.7	13.4	11.3	12.8	13.9	9.8	11.6	13.8	13.4	13.7
18	12.7	12.2	12.5	13.7	11.1	12.4	11.2	9.9	10.9	13.7	12.8	13.5
19	13.9	12.5	13.2	13.7	11.0	12.4	11.2	9.2	10.8	13.6	12.8	13.3
20	14.2	13.6	13.9	12.8	10.9	12.1	10.6	8.7	9.7	13.2	10.2	11.9
21	14.2	12.5	14.1	11.7	9.4	10.9	10.8	9.7	10.3	12.3	10.1	11.0
22	14.1	13.7	14.0	12.9	10.9	12.0	11.3	7.6	9.8	12.9	11.7	12.4
23	13.7	11.5	13.1	12.9	10.0	12.1	11.2	8.6	10.5	12.2	10.7	12.0
24	14.0	11.5	13.1	12.1	10.8	12.0	11.5	9.7	10.9	12.7	10.9	12.2
25	13.9	12.4	13.4	12.0	11.8	11.9	11.7	7.6	10.5	12.8	8.3	11.9
26	13.4	10.2	12.3	11.9	11.0	11.6	12.2	10.9	11.6	13.0	11.7	12.6
27	13.0	10.4	11.3	12.4	11.4	11.9	12.4	10.3	11.9	13.1	10.9	12.1
28	13.4	10.3	11.7	12.0	10.8	11.7	12.6	10.2	12.2	13.7	10.9	13.1
29	11.8	11.1	11.5	12.0	10.9	11.8	12.4	10.9	11.9	13.7	12.0	13.5
30	12.0	9.4	11.2	11.8	9.3	10.5	12.2	10.0	11.6	13.3	11.3	12.5
31	11.9	10.1	11.2	---	---	---	11.1	9.8	10.4	12.3	11.0	11.6
MONTH	14.9	3.2	11.5	13.7	9.3	12.1	13.9	7.6	11.3	14.8	8.3	12.6

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.2	10.5	11.4	11.3	8.2	10.4	9.3	2.8	7.4	7.5	5.3	6.7
2	12.6	10.1	12.1	11.1	9.3	10.6	10.0	5.6	8.4	7.8	6.2	7.1
3	13.3	9.2	11.9	11.1	10.5	10.9	10.6	8.0	9.9	7.5	6.4	7.0
4	13.1	10.3	11.6	10.9	8.7	10.2	11.3	10.0	10.9	7.8	6.3	6.9
5	11.8	9.0	10.3	10.4	5.6	8.1	10.4	6.4	9.5	8.1	6.5	7.2
6	12.0	10.0	11.3	9.5	4.2	6.4	9.7	8.0	8.7	8.6	6.1	7.6
7	12.0	10.1	11.5	11.8	8.3	10.1	11.5	7.7	10.4	7.1	6.5	6.7
8	11.8	10.1	11.3	13.3	11.7	12.6	11.4	7.0	10.3	7.4	6.3	6.7
9	11.8	10.0	11.1	12.7	8.2	11.5	12.3	11.4	11.8	7.4	5.6	6.4
10	11.7	9.3	10.6	13.0	12.5	12.8	12.6	6.5	11.8	7.8	6.0	6.9
11	11.3	9.5	10.1	13.0	12.8	12.9	10.9	3.7	7.8	8.2	6.2	7.5
12	10.5	9.5	10.0	12.9	10.4	12.6	9.6	3.4	6.8	8.4	5.5	7.5
13	11.5	9.3	10.3	12.4	9.0	10.8	11.3	4.3	8.6	9.4	5.4	7.8
14	11.8	9.3	11.2	11.7	8.9	10.0	10.9	6.6	8.9	9.4	5.9	8.6
15	12.4	8.9	11.1	11.7	7.3	10.4	11.3	7.3	9.8	9.3	5.4	7.8
16	12.8	9.7	12.2	10.8	7.3	9.5	12.0	4.3	10.4	9.3	8.4	9.0
17	13.1	9.0	11.2	10.2	8.9	9.4	12.0	5.1	7.9	8.8	6.7	7.5
18	13.2	9.5	12.9	10.3	7.4	8.8	6.7	5.2	5.8	8.3	6.9	7.7
19	13.2	11.2	12.8	10.5	7.6	9.8	7.2	6.3	6.7	10.0	6.6	7.6
20	13.4	10.2	12.7	10.4	8.7	9.2	6.7	6.3	6.5	9.9	6.5	7.8
21	13.9	10.2	13.3	10.8	7.7	9.1	6.5	5.4	6.4	8.2	6.6	7.5
22	13.9	7.1	11.7	9.4	6.0	7.5	6.4	4.6	6.3	7.7	6.6	7.1
23	13.6	7.1	12.5	9.3	7.1	8.3	9.1	5.1	6.8	7.8	6.8	7.2
24	13.3	9.7	12.2	10.4	6.1	9.1	10.3	3.4	7.5	8.3	6.9	7.6
25	12.4	8.6	10.8	10.1	5.6	8.4	11.0	5.0	7.3	8.2	7.0	7.8
26	12.0	8.5	9.6	9.7	5.0	7.5	11.1	5.1	6.8	7.5	6.5	7.3
27	11.7	9.3	10.9	10.0	5.0	9.0	11.6	5.6	10.0	7.6	6.1	7.2
28	11.3	7.3	10.2	9.3	5.4	8.6	11.1	5.0	8.6	7.4	6.4	7.0
29	---	---	---	8.9	4.9	7.5	9.9	6.1	8.3	8.8	6.6	7.6
30	---	---	---	6.6	2.4	5.0	8.1	5.9	6.9	9.3	6.3	8.2
31	---	---	---	8.1	6.5	7.4	---	---	---	9.3	6.8	7.4
MONTH	13.9	7.1	11.4	13.3	2.4	9.5	12.6	2.8	8.4	10.0	5.3	7.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	5.4	6.7	10.2	8.7	9.4	12.4	7.3	10.8	16.5	13.7	15.2
2	7.1	5.1	6.4	12.2	6.2	10.4	11.7	6.7	9.7	16.5	13.6	15.7
3	9.2	5.9	7.5	11.1	7.3	9.0	10.9	8.3	10.2	14.9	11.8	13.9
4	9.5	7.5	9.1	8.8	7.2	8.0	10.7	8.6	10.0	15.3	10.7	13.9
5	9.3	5.7	7.5	11.1	7.0	8.4	10.5	8.3	10.0	16.2	11.7	15.3
6	9.1	5.8	7.2	11.8	6.9	9.8	10.2	8.8	9.8	15.7	11.3	14.4
7	9.7	9.0	9.2	10.7	7.4	8.7	10.0	8.5	9.7	15.3	11.0	13.4
8	10.6	7.1	9.4	9.7	7.2	8.0	11.5	10.0	10.3	14.5	10.7	11.9
9	10.9	8.5	10.0	10.9	7.2	9.2	13.1	10.4	11.6	11.5	11.1	11.2
10	10.9	9.5	10.3	10.8	7.7	9.5	13.4	10.1	11.8	11.4	10.9	11.2
11	10.7	9.7	10.4	10.0	7.5	9.1	13.4	9.9	11.9	11.2	10.5	10.9
12	11.1	9.5	10.7	9.9	6.7	9.0	14.0	9.9	13.0	11.8	10.6	11.2
13	11.0	6.9	10.2	9.0	7.6	8.1	14.7	11.1	13.5	11.7	11.0	11.2
14	9.6	7.2	7.6	9.1	7.5	7.8	14.7	13.8	14.3	11.5	10.6	11.0
15	7.3	5.5	6.4	9.3	7.7	8.7	14.7	14.3	14.5	11.7	11.3	11.5
16	6.7	5.2	6.1	9.5	8.8	9.1	14.7	14.1	14.4	11.8	11.3	11.7
17	7.9	4.6	6.0	10.4	9.5	9.8	14.8	12.5	14.5	12.0	11.3	11.7
18	8.0	6.5	7.7	10.8	9.6	10.0	14.9	12.2	14.1	12.2	11.9	12.1
19	7.6	6.3	7.4	13.9	9.7	11.7	14.8	11.9	14.2	12.3	11.1	12.0
20	7.5	6.5	7.2	14.8	11.0	13.4	14.5	14.1	14.4	11.9	10.9	11.4
21	7.7	6.1	7.2	14.5	9.2	12.5	14.6	12.7	14.3	12.1	11.2	11.5
22	8.3	5.6	7.1	14.0	8.9	12.6	14.5	12.7	14.0	14.1	10.9	12.3
23	7.7	3.1	7.1	13.2	8.7	10.3	14.2	12.3	13.7	15.3	12.0	13.6
24	9.2	6.5	8.5	10.7	8.5	9.3	14.2	13.7	14.0	15.2	11.2	13.3
25	8.6	5.5	8.0	12.5	8.5	9.5	14.2	13.7	14.0	16.9	11.1	14.3
26	7.7	2.9	6.5	13.4	8.5	11.3	14.1	13.0	13.8	17.3	16.9	17.1
27	7.5	1.6	4.8	13.7	8.9	12.8	14.0	13.7	13.9	17.9	17.1	17.6
28	8.1	5.4	7.4	13.7	8.6	12.3	14.0	13.6	13.9	17.8	10.5	17.3
29	8.3	7.8	8.0	13.5	8.4	12.2	13.9	13.2	13.7	17.9	17.3	17.4
30	9.1	8.0	8.5	13.5	7.7	11.0	13.7	13.2	13.5	17.9	11.2	15.7
31	---	---	---	13.4	11.5	12.8	15.0	13.0	13.6	---	---	---
MONTH	11.1	1.6	7.9	14.8	6.2	10.1	15.0	6.7	12.7	17.9	10.5	13.4

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	7.7	7.9	7.6	7.5	7.5	7.9	7.7	7.8	8.2	8.1	8.1
2	8.5	7.5	7.9	7.6	7.5	7.5	7.9	7.7	7.8	8.3	8.1	8.2
3	8.3	6.8	7.6	7.7	7.5	7.6	7.8	7.6	7.7	8.2	8.1	8.1
4	7.8	6.9	7.3	7.8	7.4	7.6	7.9	7.7	7.8	8.2	8.1	8.2
5	7.7	6.8	7.1	7.8	7.4	7.7	7.8	7.7	7.8	8.2	8.1	8.2
6	8.7	6.8	7.8	7.9	7.4	7.6	7.8	7.6	7.7	8.1	8.0	8.1
7	8.8	7.0	7.8	7.8	7.3	7.5	7.9	7.6	7.8	8.1	8.0	8.1
8	8.8	7.2	7.7	7.7	7.3	7.5	7.8	7.6	7.8	8.1	8.0	8.0
9	7.6	7.1	7.3	7.7	7.3	7.5	7.8	7.7	7.8	8.0	7.9	8.0
10	7.9	7.3	7.5	7.7	7.3	7.5	7.8	7.6	7.7	7.9	7.8	7.9
11	8.3	7.2	7.7	7.8	7.6	7.7	7.8	7.7	7.7	8.0	7.9	7.9
12	8.3	7.9	8.1	7.8	7.6	7.7	7.8	7.6	7.7	8.0	7.9	7.9
13	8.6	8.1	8.4	7.9	7.6	7.8	7.8	7.7	7.7	7.9	7.8	7.8
14	8.6	7.4	8.1	7.8	7.6	7.7	7.8	7.6	7.8	7.9	7.8	7.8
15	8.8	6.8	8.2	7.9	7.6	7.8	7.9	7.7	7.8	8.1	7.6	8.0
16	7.6	6.8	6.9	7.8	7.6	7.7	8.0	7.8	7.9	8.1	7.7	8.0
17	7.9	6.8	7.2	8.0	7.8	7.9	7.9	7.6	7.7	8.1	7.6	7.9
18	8.0	7.2	7.8	8.0	7.8	7.9	7.9	7.6	7.8	8.5	7.6	8.1
19	8.2	7.8	8.0	8.1	7.8	7.9	8.0	7.8	7.9	8.4	7.9	8.2
20	8.2	7.3	7.8	8.0	7.8	7.9	8.0	7.7	7.9	8.4	8.1	8.3
21	8.1	6.9	7.4	8.0	7.9	8.0	8.5	7.8	8.2	8.4	8.2	8.3
22	8.2	6.9	7.7	8.0	7.9	8.0	8.4	8.1	8.3	8.4	8.1	8.2
23	8.0	6.9	7.7	8.0	7.8	7.9	8.3	8.1	8.2	8.4	8.1	8.2
24	8.0	7.4	7.7	7.9	7.9	7.9	8.4	8.1	8.3	8.5	8.3	8.4
25	7.9	7.6	7.8	7.9	7.8	7.9	8.3	8.2	8.2	8.6	8.3	8.5
26	7.9	7.3	7.7	7.9	7.7	7.9	8.3	8.0	8.2	8.4	8.2	8.3
27	7.7	7.5	7.6	7.8	7.7	7.8	8.3	8.2	8.3	8.4	8.1	8.3
28	7.7	7.5	7.6	7.9	7.6	7.7	8.3	8.0	8.2	8.4	8.3	8.3
29	7.7	7.4	7.6	7.9	7.6	7.8	8.2	8.0	8.1	8.4	8.3	8.4
30	7.7	7.4	7.5	7.9	7.6	7.8	8.2	8.1	8.2	8.4	8.1	8.3
31	7.6	7.5	7.5	---	---	---	8.2	8.0	8.1	8.3	8.2	8.3
MONTH	8.8	6.8	7.7	8.1	7.3	7.7	8.5	7.6	7.9	8.6	7.6	8.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.2	8.3	8.1	7.6	7.9	7.7	7.1	7.4	8.2	7.6	7.9
2	8.4	8.3	8.3	8.1	7.6	7.9	7.6	7.1	7.3	8.4	7.5	8.0
3	8.4	8.2	8.3	8.1	7.0	7.6	7.6	7.2	7.3	8.3	7.2	8.0
4	8.3	7.9	8.2	7.9	7.0	7.5	8.2	7.1	7.6	8.2	7.1	7.9
5	8.3	8.2	8.3	7.9	7.3	7.6	8.0	7.3	7.6	8.3	7.6	7.9
6	8.3	8.2	8.3	7.5	7.3	7.4	7.5	7.1	7.3	8.1	7.2	7.7
7	8.3	8.2	8.3	7.7	7.5	7.6	7.3	6.9	7.0	7.5	7.3	7.4
8	8.3	8.1	8.3	8.0	7.5	7.7	7.2	6.8	7.0	7.7	7.1	7.4
9	8.3	8.1	8.3	8.1	7.8	7.9	7.1	6.8	6.9	7.9	6.9	7.5
10	8.3	8.2	8.2	8.3	7.9	8.0	7.3	6.8	7.0	8.1	7.0	7.6
11	8.2	8.2	8.2	8.3	7.9	8.1	7.5	7.0	7.2	8.1	6.9	7.6
12	8.2	8.1	8.2	8.3	7.3	7.9	7.4	7.1	7.2	7.8	7.1	7.5
13	8.2	8.0	8.2	8.1	7.5	8.0	7.8	7.2	7.3	7.8	7.1	7.4
14	8.2	8.1	8.2	8.2	7.9	8.0	8.6	7.3	7.8	7.8	7.1	7.5
15	8.2	8.0	8.1	8.2	7.8	8.0	8.1	7.4	7.6	7.6	7.0	7.4
16	8.1	8.0	8.1	8.1	7.8	8.0	7.7	7.1	7.4	7.9	6.9	7.4
17	8.1	8.0	8.1	8.4	7.9	8.2	7.6	7.3	7.4	7.5	7.1	7.3
18	8.2	8.0	8.1	8.4	8.2	8.3	7.4	7.2	7.3	7.8	7.1	7.4
19	8.1	8.0	8.1	8.4	8.1	8.3	8.5	7.3	7.8	7.9	7.2	7.5
20	8.1	8.0	8.1	8.2	7.8	8.1	8.5	7.8	8.1	7.5	7.0	7.3
21	8.1	8.0	8.1	8.1	7.8	7.9	8.5	7.8	8.2	7.3	7.0	7.1
22	8.0	7.8	7.9	8.1	7.9	8.0	8.5	7.7	8.0	7.3	7.1	7.2
23	7.9	7.7	7.8	8.4	7.9	8.1	8.6	7.8	8.2	7.4	7.1	7.2
24	8.0	7.7	7.8	8.4	8.0	8.3	8.2	7.4	7.9	7.9	7.0	7.2
25	7.9	7.7	7.8	8.4	8.2	8.3	8.1	7.5	7.8	7.8	7.0	7.4
26	7.9	7.8	7.8	8.6	8.1	8.4	8.1	7.6	7.8	7.4	7.0	7.2
27	8.0	7.4	7.9	8.9	8.3	8.6	8.3	7.8	8.1	7.5	7.1	7.3
28	8.0	7.8	7.9	8.8	7.9	8.6	8.3	7.8	8.1	7.5	7.2	7.4
29	---	---	---	8.5	8.1	8.3	8.1	7.6	7.9	8.2	7.3	7.7
30	---	---	---	8.2	7.7	8.0	8.2	7.5	7.9	8.3	7.0	7.9
31	---	---	---	7.8	7.2	7.5	---	---	---	8.0	7.0	7.5
MONTH	8.4	7.4	8.1	8.9	7.0	8.0	8.6	6.8	7.6	8.4	6.9	7.5

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	7.2	7.4	8.1	6.7	7.3	8.7	7.6	8.3	7.5	7.3	7.4
2	8.0	7.1	7.5	7.6	7.0	7.3	8.5	8.2	8.4	8.0	7.3	7.6
3	8.4	7.7	8.0	7.7	7.3	7.5	8.7	8.2	8.4	8.1	7.6	7.9
4	8.3	7.1	7.8	7.9	7.3	7.6	9.2	8.2	8.6	8.1	7.6	7.8
5	8.3	6.7	7.6	8.1	7.2	7.6	8.9	7.4	8.3	8.1	7.6	7.9
6	8.0	7.1	7.5	8.2	7.3	8.0	8.7	6.8	8.0	8.2	7.8	8.0
7	8.0	7.3	7.7	8.3	7.5	7.8	8.6	6.9	8.0	8.2	7.8	7.9
8	8.2	7.5	7.8	7.8	7.4	7.6	8.7	6.8	7.6	8.1	7.7	7.9
9	8.4	7.4	7.9	8.5	7.3	7.8	8.4	7.0	7.8	8.1	7.7	7.8
10	8.9	7.2	7.9	8.1	7.4	7.8	8.4	7.0	7.8	8.0	7.6	7.7
11	8.7	7.3	8.4	8.3	7.3	7.9	8.5	7.0	7.8	8.0	7.6	7.8
12	8.8	7.2	8.4	8.2	6.7	7.6	8.3	7.0	7.8	8.1	7.7	7.9
13	8.6	7.2	7.8	7.8	7.1	7.5	8.1	7.4	7.8	8.2	7.8	8.0
14	7.8	7.4	7.6	8.0	7.4	7.7	8.0	7.2	7.6	8.2	7.7	8.0
15	7.8	7.6	7.7	7.8	7.1	7.5	8.1	7.4	7.8	8.2	7.8	8.0
16	8.8	7.6	8.1	8.1	6.9	7.6	8.6	7.1	8.1	8.2	8.0	8.1
17	8.6	7.9	8.2	8.3	7.1	7.9	8.4	7.3	8.2	8.3	8.1	8.2
18	8.6	7.4	8.1	8.4	6.9	7.9	8.5	7.9	8.2	8.3	8.0	8.2
19	8.7	6.9	7.9	7.9	6.9	7.5	8.4	7.4	7.9	8.3	8.1	8.2
20	8.7	6.9	7.8	8.0	7.2	7.6	8.4	7.3	8.1	8.2	7.7	8.0
21	7.6	6.8	7.1	7.9	7.4	7.7	8.5	7.3	8.0	8.2	7.5	7.9
22	7.4	6.7	7.0	7.8	7.3	7.6	8.5	7.1	8.1	8.3	7.3	8.0
23	7.4	6.9	7.1	7.6	7.1	7.4	8.4	7.0	8.1	8.2	7.4	7.9
24	7.5	6.9	7.2	7.6	7.1	7.4	8.5	7.9	8.3	8.2	7.5	7.9
25	8.4	7.1	7.6	7.8	7.4	7.5	8.4	7.9	8.2	8.0	7.7	7.9
26	8.6	7.4	7.9	8.1	7.5	7.8	8.3	7.7	8.0	8.0	7.7	7.9
27	8.6	7.2	7.5	8.0	7.3	7.8	8.5	7.6	8.0	8.2	7.7	8.0
28	8.7	7.3	7.9	8.2	7.6	7.8	8.4	7.2	8.1	8.2	8.0	8.1
29	8.7	6.8	7.5	8.1	7.7	7.9	8.1	7.0	7.6	8.2	8.1	8.1
30	7.9	6.8	7.3	7.9	7.7	7.8	7.9	6.9	7.3	8.2	7.9	8.1
31	---	---	---	8.3	7.5	7.7	7.8	7.1	7.5	---	---	---
MONTH	8.9	6.7	7.7	8.5	6.7	7.7	9.2	6.8	8.0	8.3	7.3	7.9

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	6.8	7.2	7.6	7.4	7.5	7.8	7.6	7.7	7.8	7.8	7.8
2	7.7	6.9	7.1	7.7	7.4	7.5	7.8	7.6	7.7	7.9	7.8	7.9
3	7.3	6.9	7.1	7.6	7.2	7.4	7.8	7.7	7.7	7.9	7.8	7.8
4	7.4	6.9	7.1	7.5	7.3	7.4	7.8	7.6	7.7	7.9	7.6	7.8
5	7.2	7.0	7.1	7.7	7.3	7.5	7.7	7.5	7.6	7.9	7.5	7.7
6	7.2	7.0	7.1	7.7	7.4	7.5	7.7	7.5	7.5	7.8	7.4	7.5
7	7.2	7.1	7.2	7.4	7.3	7.4	7.5	7.4	7.5	7.7	7.5	7.6
8	7.2	7.1	7.2	7.4	7.3	7.4	7.7	7.5	7.5	7.6	7.5	7.6
9	7.6	7.1	7.2	7.7	7.3	7.3	7.6	7.5	7.5	7.8	7.5	7.6
10	7.9	7.1	7.4	7.7	7.3	7.5	7.8	7.5	7.6	7.7	7.5	7.6
11	8.6	7.2	7.8	7.7	7.6	7.7	7.7	7.4	7.4	7.7	7.5	7.6
12	8.4	7.2	7.7	7.7	7.6	7.7	7.8	7.4	7.6	7.8	7.5	7.6
13	7.2	7.2	7.2	7.8	7.6	7.7	7.8	7.4	7.5	7.8	7.6	7.7
14	7.4	7.2	7.2	7.8	7.5	7.7	7.8	7.4	7.7	7.7	7.6	7.7
15	7.5	7.2	7.3	7.8	7.5	7.7	7.9	7.3	7.7	7.8	7.5	7.6
16	7.5	7.3	7.4	7.7	7.5	7.6	7.8	7.1	7.4	7.7	7.5	7.6
17	7.5	7.3	7.4	7.9	7.4	7.6	7.9	7.2	7.6	7.7	7.6	7.6
18	7.4	7.3	7.3	7.9	7.5	7.7	7.8	7.6	7.7	7.9	7.6	7.7
19	7.4	6.9	7.1	8.0	7.4	7.7	8.0	7.6	7.6	7.9	7.6	7.7
20	6.9	6.9	6.9	7.9	7.7	7.8	8.0	7.7	7.8	8.1	7.8	7.9
21	6.9	6.8	6.9	8.0	7.9	8.0	---	---	---	8.1	7.7	7.9
22	6.9	6.8	6.8	7.9	7.8	7.9	---	---	---	7.9	7.7	7.7
23	7.4	6.8	6.9	8.0	7.8	7.9	7.8	7.8	7.8	7.9	7.8	7.9
24	7.5	6.8	7.0	8.0	7.9	8.0	7.9	7.7	7.8	8.1	7.8	7.9
25	7.0	6.8	6.9	8.0	7.9	7.9	7.9	7.6	7.8	8.3	7.7	7.9
26	7.7	6.8	7.0	8.0	7.9	7.9	7.9	7.7	7.8	7.9	7.8	7.8
27	7.7	6.8	7.4	7.9	7.8	7.9	7.9	7.6	7.7	8.1	7.7	7.9
28	7.6	6.8	7.3	7.9	7.7	7.8	7.8	7.6	7.7	8.0	7.7	7.7
29	7.5	7.3	7.4	7.8	7.6	7.7	7.9	7.7	7.8	8.0	7.6	7.7
30	7.6	7.3	7.5	7.9	7.7	7.8	7.9	7.7	7.8	8.0	7.7	7.8
31	7.6	7.3	7.5	---	---	---	7.8	7.7	7.8	8.0	7.8	7.9
MONTH	8.6	6.8	7.2	8.0	7.2	7.7	---	---	---	8.3	7.4	7.7

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.1	7.7	7.9	7.8	7.0	7.3	7.4	7.0	7.2	7.8	6.6	7.1
2	8.1	7.6	7.7	7.6	7.1	7.3	7.3	7.1	7.2	7.5	6.5	6.9
3	8.1	7.3	7.7	7.2	7.0	7.1	7.2	7.1	7.1	7.4	6.5	6.8
4	8.0	7.4	7.8	7.5	7.0	7.2	7.2	7.0	7.1	7.0	6.6	6.8
5	8.0	7.6	7.9	7.6	7.0	7.3	7.2	6.9	7.0	6.8	6.5	6.6
6	7.9	7.5	7.7	7.5	7.3	7.4	6.9	6.9	6.9	7.5	6.6	6.8
7	8.0	7.5	7.8	7.7	7.4	7.5	7.0	6.9	6.9	7.5	7.2	7.3
8	8.0	7.8	7.8	7.6	7.3	7.5	6.9	6.8	6.8	7.5	6.9	7.2
9	8.0	7.7	7.8	7.8	7.3	7.5	6.9	6.8	6.9	7.5	6.8	7.2
10	8.0	7.6	7.8	7.4	7.3	7.4	7.0	6.8	6.9	7.3	6.7	6.8
11	8.0	7.6	7.9	7.4	7.2	7.3	7.1	6.7	6.8	7.0	6.7	6.8
12	7.9	7.6	7.9	7.7	7.2	7.3	7.0	6.7	6.8	7.3	6.7	6.8
13	7.9	7.1	7.7	7.9	7.2	7.6	6.9	6.7	6.7	7.3	6.6	6.8
14	7.9	7.3	7.5	7.9	7.3	7.7	6.8	6.7	6.7	7.2	6.6	6.7
15	8.2	7.4	7.9	7.8	7.1	7.5	6.7	6.7	6.7	7.2	6.6	6.8
16	8.2	7.9	8.0	7.9	7.3	7.7	7.1	6.7	6.8	6.9	6.6	6.8
17	8.1	7.7	8.0	8.0	7.3	7.7	7.4	6.7	7.0	7.4	6.7	7.0
18	8.2	7.7	7.8	8.2	7.4	7.9	7.4	7.1	7.3	7.2	6.6	6.7
19	8.2	7.5	7.7	8.2	7.6	7.8	7.7	7.2	7.3	7.1	6.6	6.9
20	8.1	7.3	7.5	8.0	7.6	7.9	7.8	7.2	7.4	7.2	6.7	6.9
21	8.1	7.3	7.5	7.8	7.4	7.6	8.0	6.9	7.4	7.1	6.7	6.9
22	8.0	7.2	7.6	7.9	7.4	7.7	7.7	7.2	7.4	7.3	6.8	7.1
23	7.8	7.2	7.4	8.0	7.5	7.6	8.0	6.8	7.3	7.6	7.1	7.3
24	8.0	7.1	7.5	8.2	7.4	7.5	7.7	6.7	7.0	7.3	7.1	7.2
25	7.9	7.3	7.7	8.2	7.1	7.6	8.0	6.6	7.3	7.4	7.0	7.1
26	8.0	7.2	7.8	8.3	7.1	7.6	7.9	6.7	7.4	7.3	7.1	7.2
27	7.9	7.2	7.4	8.1	7.0	7.2	7.8	6.7	6.8	7.5	7.2	7.3
28	8.0	7.1	7.5	8.1	7.0	7.3	8.2	6.6	7.1	7.7	7.2	7.4
29	---	---	---	8.4	6.9	7.1	7.7	6.6	6.9	7.4	7.1	7.2
30	---	---	---	8.0	7.2	7.6	7.5	6.6	7.2	7.9	6.6	7.1
31	---	---	---	7.5	7.1	7.2	---	---	---	7.5	6.9	7.1
MONTH	8.2	7.1	7.7	8.4	6.9	7.5	8.2	6.6	7.0	7.9	6.5	7.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.1	7.3	7.2	6.8	6.9	8.4	7.0	7.1	7.1	7.0	7.1
2	7.5	7.0	7.2	7.3	6.9	7.0	8.3	6.9	7.2	7.1	7.1	7.1
3	8.2	6.8	7.0	7.6	6.9	7.1	7.2	6.9	6.9	7.1	6.9	7.0
4	6.9	6.8	6.8	7.7	6.9	7.1	7.1	6.8	6.9	7.7	6.9	7.1
5	7.4	6.8	7.0	7.8	6.9	7.2	7.1	6.8	6.9	7.1	7.0	7.0
6	7.4	6.7	7.0	8.0	6.9	7.1	6.9	6.7	6.8	7.7	7.0	7.1
7	6.8	6.7	6.7	7.8	6.9	7.3	6.8	6.8	6.8	8.0	7.0	7.4
8	7.2	6.7	6.8	7.8	6.9	7.2	6.8	6.7	6.7	7.9	7.1	7.5
9	6.8	6.7	6.8	7.6	6.6	7.1	7.3	6.7	6.9	8.0	7.7	7.9
10	6.9	6.7	6.8	7.5	6.8	7.0	7.1	7.0	7.1	7.9	7.5	7.6
11	6.9	6.8	6.9	7.7	6.7	6.9	7.0	7.0	7.0	8.0	7.4	7.7
12	7.0	6.8	6.9	7.8	6.8	6.9	7.1	7.0	7.0	7.9	7.1	7.6
13	7.1	6.8	6.9	7.7	6.8	7.3	7.1	6.9	7.0	7.9	7.1	7.7
14	7.4	6.7	7.1	7.9	6.8	7.5	7.0	7.0	7.0	8.0	7.5	7.7
15	7.5	7.2	7.3	7.2	6.8	6.9	7.0	6.9	7.0	8.0	7.6	7.8
16	7.9	7.1	7.4	7.0	6.8	6.9	7.1	6.9	7.0	8.0	7.8	7.9
17	7.8	6.8	7.2	7.0	6.9	6.9	7.1	7.0	7.1	8.0	7.8	7.9
18	7.2	6.7	6.8	6.9	6.8	6.9	7.1	7.0	7.1	7.9	7.7	7.8
19	6.9	6.7	6.7	7.0	6.9	6.9	7.1	7.0	7.1	7.9	7.5	7.7
20	6.7	6.6	6.7	7.1	6.8	7.0	7.1	7.1	7.1	7.9	7.5	7.7
21	6.6	6.6	6.6	7.6	6.8	7.0	7.1	7.0	7.1	7.8	7.5	7.6
22	6.6	6.5	6.5	7.7	6.8	7.0	7.1	7.0	7.1	7.9	7.4	7.5
23	6.6	6.4	6.5	7.2	6.8	6.9	7.1	6.9	7.0	7.7	7.3	7.5
24	6.6	6.4	6.5	7.5	6.8	7.0	7.1	7.0	7.1	7.7	7.2	7.4
25	6.6	6.3	6.5	7.6	6.7	7.2	7.2	7.1	7.1	7.7	7.2	7.3
26	6.7	6.2	6.4	7.5	6.6	7.0	7.2	7.1	7.2	7.4	7.3	7.4
27	7.5	6.2	6.5	7.8	7.0	7.1	7.2	7.2	7.2	7.4	7.2	7.3
28	6.9	6.3	6.6	7.8	7.0	7.2	7.2	7.2	7.2	7.9	7.1	7.2
29	7.0	6.8	6.8	7.9	6.9	7.2	7.2	7.2	7.2	7.2	7.2	7.2
30	6.9	6.8	6.8	8.0	7.0	7.4	7.2	6.9	7.0	8.2	7.2	7.5
31	---	---	---	7.2	7.0	7.1	7.1	6.9	7.0	---	---	---
MONTH	8.2	6.2	6.8	8.0	6.6	7.1	8.4	6.7	7.0	8.2	6.9	7.5

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.1	20.5	20.8	16.3	15.4	16.0	9.5	8.6	9.2	2.8	2.3	2.7
2	21.7	20.3	20.7	16.0	15.2	15.6	9.4	8.2	8.8	2.7	2.3	2.5
3	21.6	20.6	21.0	16.1	14.9	15.4	8.9	6.0	7.6	2.5	1.7	2.2
4	21.7	21.2	21.3	16.1	15.4	15.8	6.5	5.3	5.9	2.3	1.2	1.9
5	22.0	21.2	21.6	16.3	15.8	16.1	6.3	5.1	5.9	2.5	1.9	2.3
6	24.4	22.0	23.0	16.2	14.8	15.7	6.8	4.8	5.7	2.7	1.7	2.3
7	24.3	22.2	23.0	16.3	15.6	16.0	6.8	4.7	5.7	3.3	2.2	2.7
8	22.4	18.8	20.7	16.4	15.8	16.2	6.8	5.7	6.3	3.6	3.0	3.2
9	19.4	17.1	18.0	17.2	16.1	16.5	7.0	6.0	6.5	3.9	3.3	3.6
10	18.1	16.2	17.3	17.6	16.8	17.1	6.8	6.1	6.4	3.5	2.8	3.2
11	18.3	16.7	17.5	17.0	15.8	16.4	6.8	6.4	6.6	3.9	2.8	3.4
12	18.1	16.5	17.5	16.0	15.3	15.7	7.9	6.6	7.4	4.5	3.6	4.0
13	18.9	16.6	17.7	15.8	14.4	15.2	7.4	6.7	7.1	5.0	3.9	4.4
14	18.8	17.5	18.0	15.4	14.3	15.1	9.0	7.1	8.0	4.8	4.4	4.6
15	18.6	17.8	18.3	14.5	13.6	14.2	8.9	8.5	8.7	7.1	4.6	5.5
16	18.8	18.4	18.5	14.4	13.0	13.8	8.8	8.5	8.7	7.8	4.6	6.4
17	19.7	18.5	19.0	13.8	13.0	13.3	10.3	8.7	9.6	7.2	4.8	6.1
18	20.0	19.3	19.8	13.2	12.5	12.8	9.8	8.6	9.1	7.9	5.1	6.5
19	20.2	19.1	19.6	12.6	11.4	12.0	9.1	8.4	8.6	8.1	5.1	6.5
20	19.8	18.8	19.2	11.6	10.7	11.2	8.5	6.8	7.7	9.8	6.9	8.8
21	19.3	18.8	19.0	11.3	9.5	10.3	7.6	6.4	7.0	9.2	7.5	8.1
22	20.3	18.9	19.5	9.6	8.6	9.0	7.2	6.3	6.8	8.0	6.5	7.5
23	19.5	18.5	19.0	9.1	7.8	8.4	6.3	5.3	5.7	7.3	6.6	6.9
24	19.5	17.9	18.5	8.3	7.8	8.0	6.3	3.8	4.9	7.4	5.9	6.5
25	19.2	18.0	18.5	8.5	7.9	8.2	4.8	3.2	4.3	7.1	5.8	6.5
26	18.8	18.0	18.4	9.4	8.5	9.0	4.4	2.3	3.3	6.0	4.9	5.5
27	18.6	18.1	18.3	10.0	8.8	9.3	4.1	2.9	3.5	6.1	5.1	5.6
28	19.0	18.1	18.5	9.9	8.9	9.5	4.6	3.1	3.7	7.1	5.2	5.6
29	18.5	17.6	18.0	9.9	9.3	9.6	4.0	2.6	3.4	7.0	5.4	6.0
30	17.7	16.5	17.0	9.7	9.0	9.5	4.0	3.1	3.6	8.1	5.8	7.0
31	17.0	16.2	16.4	---	---	---	3.7	2.5	3.0	9.2	7.7	8.3
MONTH	24.4	16.2	19.1	17.6	7.8	13.0	10.3	2.3	6.4	9.8	1.2	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.0	8.4	8.6	12.1	10.7	11.6	14.6	12.5	13.4	21.0	17.7	18.9
2	9.2	8.5	8.8	12.0	11.2	11.5	13.3	12.2	12.8	21.0	19.2	19.8
3	8.6	7.8	8.2	12.4	11.5	11.8	13.2	12.7	12.9	22.2	20.1	20.9
4	8.1	7.2	7.7	11.7	11.3	11.5	13.9	12.6	13.2	23.1	21.0	21.9
5	8.2	7.7	7.9	11.9	10.9	11.6	14.2	11.9	13.0	24.1	21.8	22.8
6	8.9	7.5	8.2	10.9	8.0	9.3	15.1	13.0	14.0	23.9	20.1	22.1
7	9.1	7.9	8.3	8.5	7.7	8.2	17.7	14.7	15.4	20.5	19.7	20.1
8	9.3	7.9	8.6	9.1	7.5	8.3	18.6	15.1	17.2	21.5	19.6	20.1
9	10.5	8.5	9.6	9.8	8.1	8.8	19.5	14.1	17.7	21.6	19.7	20.3
10	11.3	10.1	10.8	9.7	8.2	8.8	20.9	13.8	17.9	21.8	20.0	20.7
11	10.9	9.6	10.2	10.4	8.9	9.5	20.1	17.6	18.6	22.6	20.2	21.4
12	9.6	9.1	9.3	10.5	9.1	9.7	20.4	18.5	19.3	23.6	21.3	22.4
13	9.3	9.1	9.2	12.8	9.6	11.7	21.2	19.7	20.3	23.3	21.5	22.4
14	10.1	9.1	9.4	13.3	11.9	12.4	22.0	20.1	20.7	22.6	21.5	22.2
15	11.3	9.9	10.6	12.9	12.3	12.6	21.0	19.7	20.2	22.0	21.1	21.6
16	13.0	10.7	11.8	13.3	12.3	12.7	19.8	18.5	19.2	22.0	20.9	21.2
17	12.5	11.8	12.2	14.5	12.9	13.6	18.8	16.0	17.6	21.1	20.1	20.6
18	11.8	10.3	10.9	14.0	12.8	13.6	16.0	13.3	15.0	21.4	19.9	20.5
19	10.6	9.9	10.2	13.2	12.2	12.7	16.3	14.1	14.9	23.2	20.8	21.9
20	10.8	9.8	10.3	12.5	11.0	11.9	15.8	14.4	15.1	23.4	21.8	22.6
21	12.6	10.8	11.6	12.9	11.3	11.9	16.9	15.2	15.9	23.2	22.5	22.8
22	11.9	9.8	10.4	12.5	11.8	12.0	18.7	16.1	16.9	24.3	22.9	23.5
23	10.1	9.0	9.6	12.9	11.7	12.2	20.3	17.6	18.5	24.1	23.7	23.8
24	10.1	9.2	9.8	13.5	12.2	12.8	20.1	18.3	19.1	25.3	22.8	23.3
25	11.2	9.6	10.2	13.3	12.1	12.7	20.0	18.0	19.0	24.7	23.4	24.2
26	12.6	11.0	11.6	12.1	11.4	11.8	18.0	16.9	17.3	24.6	23.8	24.2
27	12.6	11.1	11.8	11.7	10.5	11.2	19.2	16.4	17.3	25.0	23.7	24.3
28	12.3	11.6	11.9	12.3	10.4	11.1	18.5	16.7	17.8	24.5	23.9	24.2
29	---	---	---	11.8	10.9	11.3	18.4	17.2	17.8	24.6	23.4	23.9
30	---	---	---	13.7	11.8	12.7	20.0	17.2	18.0	24.9	23.5	24.1
31	---	---	---	14.9	13.4	14.1	---	---	---	24.3	23.1	23.7
MONTH	13.0	7.2	9.9	14.9	7.5	11.5	22.0	11.9	16.9	25.3	17.7	22.1

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.9	23.1	23.6	29.4	27.4	28.7	26.6	24.6	25.7	27.4	26.7	27.0
2	25.2	23.3	24.2	28.5	26.9	27.8	26.7	25.1	25.8	27.5	26.3	26.8
3	25.6	24.0	24.8	27.1	26.1	26.6	26.8	25.2	25.8	27.2	26.1	26.7
4	26.2	24.4	25.0	27.6	26.4	26.9	27.6	26.3	27.0	27.0	26.3	26.6
5	28.0	24.1	25.8	27.8	26.4	27.1	28.8	26.1	27.1	27.8	26.0	26.8
6	27.7	25.7	26.7	27.6	26.8	27.3	29.7	26.6	27.9	27.7	26.3	27.0
7	27.5	26.7	27.1	27.2	25.9	26.5	29.3	27.1	28.5	27.9	25.8	26.5
8	27.4	26.5	26.9	26.6	25.9	26.2	29.7	27.3	28.6	27.3	26.2	26.7
9	26.9	26.1	26.4	28.2	25.8	26.6	31.2	27.6	29.3	27.4	26.6	26.9
10	27.7	25.7	26.3	28.5	26.7	27.5	31.5	27.9	30.2	27.8	26.5	26.9
11	28.4	26.2	27.4	29.8	27.3	28.5	31.0	28.2	29.8	27.5	26.9	27.1
12	28.4	24.8	27.3	29.1	27.0	28.1	30.0	28.4	29.3	27.6	26.4	26.8
13	27.9	26.4	27.4	28.0	26.9	27.4	30.0	28.7	29.2	26.9	25.8	26.3
14	27.3	26.2	26.5	27.5	26.3	27.0	28.8	27.8	28.3	26.7	25.7	26.1
15	26.2	25.5	25.9	27.2	26.2	26.7	28.7	27.4	28.0	25.7	24.0	24.8
16	27.1	25.3	26.0	27.3	26.5	26.9	29.1	27.5	28.2	24.0	23.0	23.4
17	26.5	26.0	26.2	28.3	26.3	27.1	31.0	27.9	28.7	23.6	22.0	22.7
18	27.4	25.5	26.1	28.1	26.4	27.4	29.5	28.3	28.9	23.6	22.9	23.3
19	27.3	26.1	26.8	27.2	26.4	26.9	29.4	27.7	28.5	23.9	23.0	23.4
20	27.5	26.5	27.1	27.3	25.8	26.5	28.9	27.8	28.4	23.7	23.1	23.5
21	28.0	26.2	26.9	26.9	25.6	26.3	28.7	26.9	27.5	24.2	23.4	23.6
22	28.1	26.4	27.0	26.6	25.6	26.2	28.5	27.3	27.9	25.3	23.4	24.3
23	27.6	26.3	26.9	26.7	26.2	26.5	28.8	27.7	28.1	25.6	24.0	24.9
24	27.2	26.1	26.7	27.6	26.2	26.9	28.6	27.5	27.8	25.8	24.4	25.2
25	28.1	25.9	26.7	28.5	27.1	27.7	28.2	26.6	27.3	25.2	24.3	24.8
26	28.3	26.6	27.3	28.2	27.5	27.9	28.0	25.8	26.6	24.3	22.6	23.3
27	28.9	27.0	27.4	27.5	26.2	26.9	28.0	26.5	27.0	23.2	21.8	22.6
28	30.1	27.6	28.7	26.7	25.6	26.0	28.3	26.8	27.6	23.0	22.1	22.5
29	30.8	28.2	29.0	26.3	25.8	26.0	28.1	27.3	27.5	22.2	20.1	21.2
30	29.9	27.9	28.9	26.0	25.4	25.6	27.4	26.5	27.2	20.6	19.2	19.8
31	---	---	---	25.8	24.5	25.1	28.0	26.5	27.2	---	---	---
MONTH	30.8	23.1	26.6	29.8	24.5	26.9	31.5	24.6	27.9	27.9	19.2	24.9

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.8	20.7	21.9	16.7	15.8	16.3	9.7	9.3	9.5	2.8	2.4	2.7
2	22.8	20.5	22.0	16.4	15.4	15.9	9.7	8.7	9.3	2.8	2.2	2.5
3	21.7	21.3	21.5	16.5	16.0	16.3	8.9	6.1	7.6	2.9	2.2	2.6
4	21.6	21.3	21.4	16.4	16.0	16.2	6.9	6.0	6.5	2.9	2.0	2.5
5	21.6	21.4	21.5	16.3	15.9	16.2	7.1	6.4	6.8	3.1	2.4	2.7
6	21.7	21.5	21.6	16.3	16.1	16.2	7.0	6.6	6.9	3.5	2.6	3.3
7	21.6	21.5	21.5	16.3	16.2	16.2	6.9	6.5	6.8	3.6	3.4	3.5
8	21.6	21.5	21.6	16.3	16.2	16.3	6.9	6.2	6.7	3.9	3.0	3.5
9	21.6	19.2	21.0	17.1	16.3	16.4	7.0	6.2	6.7	4.0	3.4	3.6
10	20.9	17.7	19.1	17.5	16.3	17.0	6.8	6.2	6.5	3.6	3.0	3.2
11	19.4	16.7	18.0	17.0	16.3	16.5	7.1	6.6	6.9	3.5	3.0	3.3
12	18.6	16.9	18.1	16.4	15.7	16.0	7.8	6.9	7.4	4.4	3.1	3.4
13	18.8	18.4	18.7	15.8	15.6	15.8	7.6	6.7	7.2	4.6	3.6	4.0
14	18.8	18.2	18.5	15.9	14.9	15.6	9.1	7.1	7.8	4.5	4.2	4.4
15	18.5	18.0	18.1	15.3	14.3	14.7	8.9	7.9	8.6	4.6	4.4	4.5
16	18.1	18.0	18.1	14.9	14.3	14.8	8.7	8.1	8.4	5.4	4.4	4.7
17	18.4	18.1	18.2	14.9	13.2	14.3	10.3	8.0	9.3	5.2	4.7	4.9
18	18.6	18.2	18.3	13.8	12.6	13.1	9.8	8.3	8.9	5.7	4.9	5.1
19	18.4	18.2	18.3	13.9	11.7	12.7	9.1	8.4	8.9	7.1	4.9	5.6
20	18.4	18.2	18.3	12.6	11.0	11.6	8.5	6.9	7.9	9.4	6.8	8.3
21	18.5	18.3	18.4	11.3	9.6	10.4	8.0	6.7	7.4	9.2	7.4	8.0
22	18.6	18.4	18.5	10.2	8.9	9.4	7.7	6.7	7.1	7.8	7.3	7.5
23	19.3	18.5	18.7	9.2	7.9	8.5	6.9	6.0	6.5	7.4	6.7	6.9
24	18.9	18.5	18.7	8.2	7.8	8.0	6.8	4.9	6.2	6.9	6.3	6.5
25	18.7	18.5	18.7	8.5	7.9	8.1	6.2	4.5	5.5	6.7	6.4	6.5
26	18.7	18.2	18.6	9.4	8.4	9.0	5.6	4.2	5.0	6.5	6.0	6.2
27	18.8	18.1	18.5	9.8	8.9	9.2	5.4	4.0	5.1	6.3	5.4	6.0
28	18.7	18.2	18.6	9.8	9.0	9.4	5.5	4.3	4.7	6.2	5.6	6.0
29	18.6	17.8	18.1	9.8	9.5	9.6	4.6	3.6	4.1	6.1	5.8	6.1
30	18.1	16.9	17.3	9.7	9.3	9.5	4.3	3.7	4.1	8.0	5.8	6.8
31	17.6	16.3	16.6	---	---	---	3.7	2.8	3.2	9.0	7.5	8.0
MONTH	22.8	16.3	19.2	17.5	7.8	13.3	10.3	2.8	6.9	9.4	2.0	4.9

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.8	8.0	8.3	11.9	11.0	11.4	13.1	12.0	12.2	18.7	17.4	17.9
2	8.8	8.0	8.2	11.7	11.3	11.4	12.8	12.2	12.4	19.3	17.5	18.2
3	8.6	7.9	8.3	11.5	11.3	11.4	12.5	12.3	12.4	19.9	18.0	18.8
4	8.4	7.4	8.0	11.6	11.4	11.5	12.4	12.3	12.4	20.4	18.4	19.4
5	8.1	7.7	7.9	11.7	11.0	11.5	13.0	12.4	12.5	20.4	18.7	19.4
6	8.2	7.9	8.0	11.1	8.1	9.4	12.8	12.6	12.7	21.7	18.7	19.7
7	8.7	7.9	8.2	8.7	8.1	8.4	12.9	12.6	12.7	20.5	19.6	20.0
8	9.1	8.1	8.4	8.6	8.3	8.4	13.2	12.8	12.9	20.4	19.4	19.7
9	10.1	8.3	8.9	9.1	8.3	8.6	13.0	12.8	12.9	20.3	19.6	19.8
10	11.2	8.7	10.0	8.9	8.7	8.8	16.8	12.9	13.2	20.5	19.7	19.9
11	10.9	9.7	10.2	8.9	8.8	8.9	18.4	13.4	15.5	21.2	19.9	20.0
12	9.7	9.1	9.3	10.1	8.9	9.1	18.8	14.4	15.6	22.4	20.0	20.6
13	9.3	9.0	9.2	13.2	9.1	11.2	18.5	14.4	15.2	23.0	20.2	21.0
14	9.6	9.1	9.2	12.7	10.5	11.9	16.2	14.8	15.0	22.1	20.2	20.8
15	10.8	9.0	9.5	12.7	11.2	12.0	16.8	15.3	15.8	21.9	20.8	21.4
16	11.9	9.1	9.4	13.2	11.8	12.5	18.6	15.3	16.2	21.5	21.1	21.4
17	12.3	9.2	10.7	13.4	12.6	12.9	18.2	15.8	17.0	21.3	20.1	20.7
18	10.8	9.7	9.9	13.8	12.7	13.3	16.0	13.4	15.0	21.0	20.0	20.6
19	10.4	9.7	10.0	13.3	12.3	13.0	15.5	14.2	14.8	21.3	20.7	20.9
20	10.4	9.9	10.2	12.8	11.0	11.9	15.5	14.6	14.9	22.7	20.7	21.7
21	10.6	10.0	10.2	12.2	11.2	11.6	16.2	15.1	15.5	23.0	21.5	22.2
22	10.6	9.8	10.2	12.4	11.7	12.0	17.2	16.1	16.4	24.1	22.2	23.3
23	10.3	9.4	10.1	12.6	11.9	12.1	17.5	15.8	16.7	24.1	23.6	23.8
24	10.2	9.5	9.9	13.2	11.9	12.2	19.4	15.9	16.9	23.9	23.3	23.6
25	11.2	9.5	10.0	13.2	12.3	12.5	19.8	16.1	18.0	24.3	23.3	23.6
26	11.7	10.5	11.3	12.5	11.5	12.0	17.8	16.4	17.2	24.5	23.5	24.0
27	12.0	10.7	11.1	12.2	11.4	11.9	17.0	16.3	16.6	24.8	23.7	24.3
28	12.0	10.9	11.4	11.9	11.4	11.7	17.8	16.5	16.9	24.7	23.9	24.3
29	---	---	---	12.0	10.9	11.8	17.9	16.8	17.3	24.2	23.6	23.9
30	---	---	---	12.6	11.6	12.0	17.9	17.1	17.4	24.6	23.5	23.8
31	---	---	---	12.1	12.0	12.0	---	---	---	24.0	23.3	23.7
MONTH	12.3	7.4	9.5	13.8	8.1	11.3	19.8	12.0	15.0	24.8	17.4	21.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.9	23.1	23.5	26.9	26.4	26.7	26.0	25.5	25.7	27.0	26.7	26.8
2	24.5	23.4	23.7	27.7	26.8	27.1	26.2	25.6	25.8	26.9	26.7	26.8
3	24.7	23.6	23.8	27.4	26.3	27.0	26.1	25.7	25.7	26.9	26.7	26.8
4	24.4	23.6	23.7	27.3	26.6	26.8	26.0	25.7	25.7	26.8	26.3	26.6
5	25.5	23.8	24.4	27.3	26.4	26.8	26.1	25.7	25.8	26.7	26.5	26.6
6	26.7	24.1	25.3	27.2	26.8	27.0	26.1	25.8	25.9	26.9	26.6	26.7
7	24.9	24.2	24.4	27.2	26.0	26.6	26.4	25.8	26.1	26.9	26.4	26.5
8	26.4	24.6	25.0	26.7	26.0	26.4	26.8	26.1	26.3	27.1	26.1	26.5
9	25.4	24.5	24.8	26.6	25.9	26.4	26.8	26.3	26.6	27.3	26.7	26.9
10	25.1	24.5	24.7	27.7	26.2	26.5	27.0	26.4	26.6	27.3	26.8	27.0
11	25.0	24.5	24.7	27.8	26.4	26.6	26.8	26.5	26.6	27.6	26.7	27.1
12	25.1	24.5	24.6	28.7	26.5	27.2	26.8	26.5	26.6	27.4	26.5	26.8
13	27.1	24.7	25.2	27.7	27.0	27.3	27.4	26.6	26.7	27.0	25.8	26.3
14	26.9	25.4	26.2	27.6	26.3	26.9	27.0	26.7	26.9	26.7	25.7	26.1
15	26.1	25.5	25.8	29.6	26.4	26.7	27.0	26.9	27.0	25.7	24.0	24.7
16	26.4	25.3	25.6	26.5	26.4	26.4	27.4	26.9	27.0	24.0	22.9	23.4
17	26.3	25.5	25.9	26.5	26.4	26.4	27.4	26.9	27.0	23.0	22.4	22.6
18	26.2	25.5	25.6	26.5	26.4	26.4	27.3	27.0	27.1	23.0	22.7	22.8
19	25.9	25.5	25.6	26.6	26.3	26.4	27.8	27.1	27.2	23.5	22.8	22.9
20	26.0	25.6	25.7	26.5	26.1	26.3	27.2	27.1	27.2	23.5	23.1	23.3
21	25.9	25.6	25.7	26.7	25.9	26.2	27.6	27.2	27.3	23.5	23.3	23.4
22	26.2	25.6	25.7	26.5	26.1	26.2	27.4	27.2	27.2	23.7	23.3	23.4
23	26.2	25.6	25.7	26.4	26.0	26.2	27.4	27.2	27.3	23.8	23.3	23.5
24	26.0	25.6	25.8	27.4	26.1	26.5	27.3	27.2	27.3	24.8	23.5	23.7
25	26.0	25.7	25.7	28.2	26.4	27.1	27.3	27.2	27.3	24.6	23.6	23.8
26	27.3	25.7	25.9	27.9	26.3	26.8	27.3	27.2	27.2	23.6	23.5	23.6
27	27.6	25.6	26.5	27.3	26.3	26.5	27.2	27.1	27.2	23.6	23.5	23.6
28	26.3	25.7	25.9	26.4	25.7	26.2	27.2	27.0	27.2	23.6	22.4	23.4
29	26.4	25.8	26.1	26.2	25.9	26.1	27.2	27.0	27.1	23.4	23.1	23.3
30	26.7	26.3	26.5	26.0	25.4	25.9	27.2	27.0	27.1	23.4	19.8	22.0
31	---	---	---	26.0	25.8	25.9	27.2	26.8	27.0	---	---	---
MONTH	27.6	23.1	25.3	29.6	25.4	26.6	27.8	25.5	26.7	27.6	19.8	24.9

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	7.9	8.4	8.1	7.3	7.8	11.4	10.6	11.0	---	---	---
2	10.3	7.5	8.7	8.4	7.4	7.9	11.6	10.4	11.1	---	---	---
3	10.3	3.0	8.2	8.8	7.3	8.2	11.3	10.2	10.7	---	---	---
4	9.3	3.5	7.4	8.9	6.8	8.2	12.4	10.9	11.6	---	---	---
5	8.8	1.5	4.7	8.8	6.9	8.1	12.1	11.2	11.6	---	---	---
6	11.3	2.9	8.2	8.8	6.5	7.8	12.6	10.4	11.7	---	---	---
7	10.5	4.2	7.7	8.3	5.8	7.1	12.6	10.3	11.8	---	---	---
8	10.5	5.7	7.3	8.0	5.7	6.9	12.5	11.1	11.9	---	---	---
9	8.1	5.8	6.9	8.1	6.1	7.0	12.2	11.3	11.8	---	---	---
10	8.3	5.8	7.3	7.8	6.6	7.3	12.2	11.2	11.6	---	---	---
11	9.4	5.8	7.5	8.5	7.1	7.6	12.1	11.2	11.5	---	---	---
12	9.8	7.9	9.0	8.0	7.0	7.5	11.8	10.8	11.4	---	---	---
13	11.4	8.9	9.8	8.4	6.8	7.8	11.7	11.0	11.3	---	---	---
14	10.8	4.8	8.7	8.8	7.2	7.9	11.5	10.4	11.2	---	---	---
15	11.2	1.3	8.6	8.8	7.7	8.2	11.3	10.8	11.1	---	---	---
16	7.0	1.1	2.9	8.7	7.6	8.2	11.7	10.9	11.3	---	---	---
17	7.6	1.1	4.1	9.9	8.5	9.0	11.2	9.8	10.3	---	---	---
18	7.7	4.1	6.9	9.5	8.5	9.1	10.8	9.6	10.3	---	---	---
19	9.6	6.9	8.0	9.5	8.8	9.3	11.5	10.5	11.0	13.7	11.5	12.5
20	9.0	5.5	7.6	9.8	9.2	9.5	11.2	10.1	10.8	11.9	11.0	11.6
21	9.0	1.6	5.9	10.0	9.1	9.7	---	---	---	11.6	10.1	11.2
22	9.9	1.2	7.2	10.2	9.5	9.9	---	---	---	11.9	10.6	11.3
23	8.7	2.6	7.6	10.3	9.4	10.0	---	---	---	11.6	10.6	11.0
24	9.4	7.1	8.3	10.3	10.0	10.1	---	---	---	12.0	11.4	11.7
25	9.3	8.3	8.7	10.2	9.7	10.0	---	---	---	12.4	11.6	12.0
26	9.0	5.8	8.2	10.1	9.5	9.9	---	---	---	12.2	11.1	11.5
27	8.6	7.9	8.3	10.0	9.2	9.7	---	---	---	12.0	11.0	11.7
28	8.6	7.7	8.1	11.9	9.3	10.4	---	---	---	12.0	11.3	11.6
29	8.7	7.4	8.0	11.9	10.5	11.3	---	---	---	12.2	11.4	11.9
30	8.7	7.1	7.9	11.4	10.4	11.1	---	---	---	11.8	10.5	11.3
31	8.7	7.4	7.9	---	---	---	---	---	---	11.1	10.4	10.9
MONTH	11.4	1.1	7.5	11.9	5.7	8.8	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.9	10.1	10.7	10.0	7.9	9.2	9.9	6.2	8.3	8.8	6.9	7.8
2	11.3	10.5	10.9	10.1	7.8	9.4	9.2	7.8	8.6	9.2	6.0	7.5
3	11.0	10.5	10.8	10.1	4.7	8.0	9.3	8.2	8.6	9.7	6.7	8.3
4	10.9	9.2	10.5	9.3	4.6	7.7	10.4	7.7	9.0	9.0	5.9	8.4
5	10.7	10.2	10.6	9.2	6.2	8.3	10.0	7.5	9.3	9.1	6.6	8.0
6	10.8	9.6	10.5	8.8	7.7	8.2	9.4	8.0	8.8	8.7	6.8	7.9
7	10.9	9.9	10.7	9.3	8.2	8.9	8.7	7.7	8.1	8.1	6.7	7.5
8	10.9	10.0	10.6	10.1	7.7	9.1	8.6	6.5	7.8	8.7	6.1	7.5
9	10.8	9.7	10.6	10.8	9.4	10.2	8.0	2.5	6.3	9.4	4.6	7.6
10	10.5	9.7	10.0	11.5	10.1	10.7	7.7	2.3	5.5	9.1	5.5	8.0
11	10.0	9.1	9.8	11.7	10.1	10.8	7.7	5.6	6.8	9.1	4.1	7.7
12	9.9	9.1	9.7	11.4	6.6	10.0	7.6	6.3	6.8	8.1	6.1	7.5
13	9.9	9.0	9.7	10.4	7.5	9.7	8.5	6.6	7.4	8.1	5.9	7.2
14	9.9	8.5	9.6	10.5	9.2	9.8	10.3	7.5	8.5	8.2	5.7	7.5
15	10.6	8.9	10.1	10.2	9.1	9.7	8.9	7.3	8.1	7.7	5.4	6.9
16	10.5	9.9	10.3	10.0	8.8	9.5	8.0	6.1	7.4	8.5	3.4	6.8
17	10.1	9.5	9.9	11.2	9.2	10.4	7.8	6.6	7.3	7.1	5.5	6.5
18	10.1	9.4	9.8	10.7	9.7	10.3	8.2	6.8	7.5	8.2	5.6	6.9
19	10.3	9.7	10.1	10.4	9.4	10.0	10.6	7.0	8.4	8.7	6.3	7.5
20	10.4	9.9	10.2	9.9	9.1	9.6	10.0	7.7	8.7	7.5	5.1	6.6
21	10.2	9.6	10.0	10.3	8.8	9.3	9.9	8.1	9.0	6.9	5.2	5.9
22	9.8	9.1	9.5	10.0	9.1	9.7	10.0	7.7	8.6	6.6	5.7	6.1
23	9.8	9.0	9.5	10.7	9.3	10.0	9.7	7.8	8.9	6.8	4.9	5.9
24	9.9	8.4	9.5	10.7	9.1	10.3	8.7	6.9	8.1	8.1	4.5	5.9
25	9.7	9.0	9.4	10.3	9.6	9.8	8.0	6.9	7.5	7.8	3.9	6.2
26	10.1	9.1	9.6	10.8	9.3	10.1	8.6	6.9	7.5	6.3	3.9	5.3
27	10.3	6.8	9.6	11.6	9.9	10.8	8.5	7.1	7.8	6.7	4.3	5.6
28	10.0	8.6	9.3	12.8	9.4	11.2	8.3	6.7	7.7	7.0	5.2	6.0
29	---	---	---	11.6	9.9	10.7	7.8	6.5	7.2	8.1	5.6	6.7
30	---	---	---	10.8	9.8	10.3	8.8	6.1	7.3	9.1	3.5	7.9
31	---	---	---	10.3	9.2	9.9	---	---	---	8.0	3.5	6.5
MONTH	11.3	6.8	10.1	12.8	4.6	9.7	10.6	2.3	7.9	9.7	3.4	7.0

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	5.3	6.4	7.7	.2	5.9	9.7	7.0	8.6	5.5	3.9	4.9
2	8.6	5.1	7.1	6.2	4.2	5.3	8.5	7.0	7.8	7.1	3.1	5.6
3	10.2	7.6	8.6	6.7	5.0	5.9	9.8	7.4	8.1	7.6	5.1	6.7
4	9.6	4.7	7.8	7.4	5.2	6.5	15.8	7.2	9.6	7.6	5.3	6.3
5	9.2	1.2	7.0	7.9	4.8	6.6	12.9	4.6	8.0	7.4	5.1	6.4
6	8.0	5.3	6.7	8.4	4.4	7.4	9.1	.7	6.4	8.1	5.9	6.8
7	7.8	5.9	7.2	8.9	6.2	7.0	8.6	1.2	6.2	7.8	6.0	6.7
8	8.6	6.2	7.3	7.1	6.1	6.7	11.7	1.6	5.5	7.3	5.7	6.4
9	9.2	6.4	7.6	10.1	6.0	7.3	7.9	.4	5.6	6.9	5.7	6.2
10	11.3	4.6	7.4	8.0	6.1	7.1	7.2	.3	4.7	6.9	5.3	5.9
11	9.9	5.6	8.3	9.2	5.4	7.5	7.3	.5	4.8	6.9	5.3	6.1
12	9.5	1.5	7.6	8.5	1.2	6.2	7.2	2.0	6.0	7.6	6.0	6.6
13	8.5	3.2	6.2	6.8	4.6	5.9	7.6	5.4	6.6	8.0	5.8	6.7
14	6.6	5.2	5.9	7.7	5.6	6.4	7.4	4.1	6.1	7.8	5.4	6.5
15	7.1	5.8	6.5	6.9	4.2	6.2	7.7	5.8	6.9	7.4	5.8	6.6
16	---	---	---	7.8	2.3	6.0	9.7	2.9	7.5	7.8	6.6	7.2
17	---	---	---	8.0	3.8	6.8	8.3	4.1	7.1	8.1	7.0	7.5
18	---	---	---	8.7	1.2	7.0	8.4	6.1	7.0	8.3	6.2	7.5
19	10.5	4.7	8.0	7.2	1.2	5.6	7.6	4.1	6.0	8.2	6.2	7.3
20	9.9	4.6	7.7	8.1	4.9	6.5	7.7	4.1	6.8	7.3	5.2	6.4
21	8.7	2.4	6.4	7.7	5.7	6.8	8.7	3.9	6.8	8.3	2.7	6.2
22	8.2	3.0	6.9	7.1	5.5	6.6	8.6	3.1	7.1	9.4	2.0	6.9
23	8.4	5.6	7.3	6.6	4.2	5.9	8.7	3.2	7.2	7.9	3.5	6.5
24	8.4	3.5	7.7	6.8	5.0	6.1	8.6	6.8	8.0	7.4	3.8	6.3
25	10.2	7.3	8.3	7.7	5.8	6.8	8.2	6.7	7.5	7.1	5.1	6.4
26	10.0	8.1	8.9	7.9	6.7	7.3	8.6	6.2	7.3	7.2	6.1	6.6
27	10.5	6.9	8.3	7.2	5.4	6.7	9.1	5.6	7.2	8.8	5.6	7.1
28	10.6	7.2	8.7	9.1	6.5	7.4	8.7	3.8	7.3	8.7	7.3	7.9
29	10.1	3.7	7.5	8.4	6.8	7.6	7.4	2.0	5.8	8.5	7.6	8.0
30	8.1	1.6	6.4	8.1	7.1	7.5	6.6	.2	3.6	8.3	7.7	8.1
31	---	---	---	9.6	7.0	7.7	6.4	2.2	5.2	---	---	---
MONTH	---	---	---	10.1	.2	6.7	15.8	.2	6.7	9.4	2.0	6.7

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	.4	3.2	7.6	6.9	7.3	10.9	10.2	10.5	11.2	10.8	11.0
2	6.4	.4	1.7	7.8	6.1	7.2	11.2	9.9	10.3	11.7	10.8	11.4
3	4.6	.7	2.8	7.0	5.2	5.9	11.4	10.4	10.8	11.6	10.8	11.2
4	5.2	.8	3.1	6.3	5.3	5.8	11.3	10.6	11.0	11.9	10.1	11.2
5	4.4	2.2	3.5	7.0	5.4	6.2	11.3	9.9	10.5	11.8	9.9	11.0
6	3.1	.8	1.7	6.9	5.5	6.2	10.9	9.8	10.1	11.1	9.4	9.8
7	1.6	.9	1.2	6.2	5.3	5.5	10.3	9.8	10.1	10.5	9.8	10.1
8	1.5	.9	1.0	5.5	5.2	5.3	11.5	9.8	10.2	10.5	9.8	10.0
9	5.9	.9	1.7	6.9	4.9	5.3	10.9	9.8	10.1	11.4	9.8	10.1
10	7.6	1.3	4.4	7.3	4.7	6.5	11.6	9.9	10.9	11.2	9.9	10.6
11	9.7	3.3	6.4	7.7	7.0	7.4	11.0	9.3	9.8	11.0	9.9	10.5
12	9.3	3.1	5.6	7.6	7.0	7.3	11.3	9.2	10.3	11.5	10.3	10.7
13	3.2	1.4	2.1	7.7	6.9	7.3	11.3	9.1	10.1	11.5	10.7	11.1
14	3.7	1.3	2.3	8.2	6.6	7.3	11.2	9.1	10.6	11.2	10.5	10.9
15	4.2	2.1	3.5	8.3	6.6	7.5	11.4	8.4	10.5	11.4	10.2	10.5
16	4.0	3.2	3.6	7.7	6.4	6.9	11.1	7.4	8.8	11.1	10.2	10.6
17	3.7	2.3	2.9	9.0	6.0	7.2	10.6	7.5	9.6	11.2	10.5	10.8
18	2.8	1.8	2.3	9.0	6.0	7.7	10.4	9.4	9.9	13.3	10.7	11.7
19	2.9	1.6	2.2	8.6	5.6	7.2	11.1	9.1	9.7	12.6	11.6	12.1
20	2.1	1.4	1.7	8.6	7.1	7.9	11.1	9.9	10.5	12.2	11.3	11.8
21	1.9	.8	1.3	9.2	8.2	8.7	11.4	10.0	10.7	11.8	10.7	11.3
22	1.2	.5	.8	9.0	8.4	8.7	10.9	8.9	10.2	11.3	10.3	10.6
23	6.9	.3	1.7	9.8	8.6	9.2	9.9	9.5	9.7	11.8	11.0	11.4
24	7.1	.3	2.2	9.5	9.1	9.3	10.2	9.1	9.5	11.8	10.9	11.3
25	3.9	.3	1.3	9.6	9.0	9.3	10.8	9.0	9.9	12.6	10.6	11.3
26	8.4	.6	3.2	9.3	8.8	9.0	10.6	9.5	10.0	11.5	10.8	11.1
27	8.3	.7	6.5	9.1	8.2	8.6	10.7	9.2	9.7	12.1	10.7	11.4
28	8.1	.8	5.5	11.1	8.8	9.9	10.6	9.2	10.0	11.7	10.2	10.7
29	7.7	6.3	7.2	10.8	10.1	10.4	10.7	10.1	10.5	11.9	10.0	10.4
30	8.0	6.0	7.2	11.4	10.3	11.0	10.9	10.1	10.5	11.9	10.2	11.0
31	8.3	6.1	7.6	---	---	---	11.1	10.3	10.8	11.2	10.3	10.9
MONTH	9.7	.3	3.3	11.4	4.7	7.6	11.6	7.4	10.2	13.3	9.4	10.9

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.2	9.9	10.6	8.7	4.4	6.4	8.4	4.7	6.3	8.4	1.1	4.7
2	11.0	9.4	9.8	7.8	4.6	5.9	7.6	5.1	6.5	7.3	.3	3.3
3	10.9	8.2	9.6	5.8	4.0	5.0	6.5	5.2	5.7	7.8	.7	3.9
4	10.9	8.4	10.0	7.5	4.0	5.2	5.9	4.3	5.3	6.1	1.7	3.9
5	10.9	9.3	10.4	8.3	3.9	6.6	6.4	3.6	4.5	4.4	.9	2.0
6	10.6	8.9	9.7	9.0	7.6	8.2	4.4	3.2	3.8	8.0	.7	3.6
7	10.9	8.5	9.8	8.8	7.2	8.1	3.9	3.2	3.5	8.5	7.0	7.8
8	10.8	9.7	10.1	8.5	7.0	7.8	3.4	2.0	2.7	8.4	5.2	7.4
9	10.9	9.5	10.1	9.9	7.2	8.1	3.0	2.2	2.7	8.4	4.4	6.9
10	10.4	8.7	9.7	7.9	7.2	7.6	5.0	1.8	2.6	7.8	1.7	3.6
11	10.1	8.6	9.9	7.7	6.7	7.1	6.2	1.3	3.1	5.0	.7	2.0
12	10.0	8.6	9.8	9.4	6.3	6.9	6.3	.3	1.8	6.5	.8	2.5
13	9.9	6.2	8.9	9.8	6.7	8.6	4.0	.2	.9	6.8	.4	2.5
14	9.8	7.3	8.3	9.8	7.1	8.7	1.8	.2	.7	6.1	.3	1.5
15	10.2	7.4	9.1	9.3	6.1	7.9	1.3	.0	.3	6.2	.9	2.8
16	9.8	8.4	8.9	9.4	7.0	8.6	5.7	.0	.9	3.0	.7	2.2
17	9.6	7.7	8.8	9.6	7.1	8.4	7.0	.0	3.9	7.1	1.4	4.7
18	9.8	7.5	7.9	10.1	7.2	9.0	7.4	5.4	6.9	6.5	.7	2.4
19	9.6	6.4	7.6	9.7	7.9	8.6	9.1	6.1	7.2	6.4	.6	3.6
20	9.9	5.4	6.8	9.4	8.5	9.0	8.8	6.5	7.5	6.6	.8	3.5
21	9.9	5.7	6.5	9.0	7.9	8.5	9.2	4.6	7.2	6.3	1.3	4.1
22	9.4	5.0	7.5	9.3	7.5	8.8	8.3	6.6	7.5	6.7	2.9	5.5
23	9.1	4.4	5.8	9.7	7.7	8.5	8.8	1.2	5.6	6.9	4.5	5.7
24	9.4	4.2	6.8	9.9	7.3	8.0	7.8	.4	3.1	5.5	3.7	4.5
25	9.2	6.0	7.9	9.8	5.6	7.9	8.4	.5	5.2	5.5	2.8	3.7
26	9.6	5.3	8.5	10.1	5.5	7.7	8.5	.5	6.5	5.7	3.9	4.8
27	9.1	4.7	6.1	9.7	4.7	5.8	8.2	.0	1.7	6.3	4.1	5.3
28	9.5	4.3	6.5	9.6	3.6	6.4	8.9	.2	4.1	7.1	4.1	5.8
29	---	---	---	10.3	3.8	4.8	8.2	.5	3.7	6.0	2.1	3.7
30	---	---	---	9.8	6.7	8.3	7.8	1.0	5.7	8.0	.5	2.7
31	---	---	---	8.0	4.5	6.2	---	---	---	6.5	2.8	4.5
MONTH	11.2	4.2	8.6	10.3	3.6	7.5	9.2	.0	4.2	8.5	.3	4.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.3	4.1	5.5	.4	.4	.4	8.6	.0	1.2	.2	.1	.1
2	5.9	2.8	4.8	5.0	.0	.9	8.0	.0	2.1	1.3	.1	.1
3	7.7	.8	2.3	6.1	.0	2.3	3.4	.0	.3	1.7	.1	.3
4	2.3	.3	1.0	6.4	.2	3.0	2.1	.0	.3	5.7	.1	.8
5	5.1	.3	2.0	6.6	.0	3.1	3.3	.0	.3	2.7	.1	.2
6	6.2	.5	3.1	7.1	.0	1.7	.4	.0	.0	5.2	.1	.5
7	.5	.1	.2	6.1	.0	3.2	.0	.0	.0	6.6	.2	2.2
8	5.5	.1	1.1	6.1	.0	3.4	.1	.0	.0	6.3	.3	3.7
9	1.0	.2	.3	5.7	.0	1.7	.1	.0	.0	6.9	5.4	6.1
10	.3	.2	.2	4.7	.0	.8	.1	.0	.0	6.2	4.3	5.0
11	.4	.1	.2	5.3	.0	.7	.0	.0	.0	7.2	4.7	5.9
12	.2	.1	.2	7.1	.0	1.4	.0	.0	.0	6.7	1.1	5.3
13	4.8	.1	.9	5.7	.0	4.1	.0	.0	.0	6.5	1.5	5.7
14	6.3	.3	4.6	6.5	.8	5.3	.0	.0	.0	7.8	4.8	6.0
15	7.3	5.5	6.4	4.3	.2	1.8	.0	.0	.0	7.4	5.8	6.7
16	8.4	5.3	6.5	2.4	.4	1.5	.4	.0	.1	7.9	6.7	7.2
17	7.9	1.6	4.8	2.3	.7	1.5	.2	.1	.1	7.6	6.9	7.1
18	4.9	.2	1.2	.9	.2	.5	.1	.1	.1	7.0	5.0	5.8
19	2.5	.1	.4	.9	.0	.2	.1	.1	.1	6.9	3.5	5.0
20	1.1	.1	.3	.6	.1	.2	.1	.1	.1	6.9	4.0	5.2
21	1.3	.0	.2	6.9	.2	1.2	.1	.1	.1	4.9	2.4	3.4
22	1.5	.0	.1	6.9	.3	1.4	.1	.1	.1	5.6	1.9	2.6
23	1.8	.0	.1	5.8	.3	2.7	.4	.1	.1	4.0	.5	2.0
24	.1	.0	.0	7.0	1.1	3.5	.1	.0	.1	4.2	.3	1.6
25	1.0	.0	.1	7.2	.6	5.2	.1	.0	.1	4.6	.3	1.0
26	6.0	.0	.7	6.4	.0	1.8	.1	.0	.0	.9	.6	.7
27	7.6	.0	2.6	5.8	.0	.8	.1	.0	.0	1.0	.1	.5
28	1.0	.0	.4	6.2	.0	1.6	.1	.0	.0	7.5	.1	.4
29	.6	.5	.5	6.6	.0	1.1	.1	.0	.0	.3	.2	.2
30	.5	.4	.4	6.6	.0	2.5	.3	.0	.1	8.2	.2	2.7
31	---	---	---	1.1	.0	.1	.1	.1	.1	---	---	---
MONTH	8.4	.0	1.7	7.2	.0	1.9	8.6	.0	.2	8.2	.1	3.1

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	107	88	94	83	74	79	99	92	96	---	---	---
2	118	84	97	84	74	80	100	89	96	---	---	---
3	117	34	92	88	74	82	92	88	90	---	---	---
4	106	39	84	90	69	83	99	89	93	---	---	---
5	100	17	54	90	70	82	96	91	93	---	---	---
6	136	33	96	88	66	78	99	85	93	---	---	---
7	123	49	91	84	59	72	100	84	94	---	---	---
8	121	64	82	82	58	71	102	90	97	---	---	---
9	84	63	73	83	62	72	99	92	96	---	---	---
10	86	61	76	81	68	75	99	91	94	---	---	---
11	99	61	79	87	73	78	99	92	94	---	---	---
12	104	82	94	81	71	76	99	89	95	---	---	---
13	122	93	103	83	68	78	97	91	94	---	---	---
14	114	50	92	86	73	79	98	87	95	---	---	---
15	119	14	92	86	75	80	98	93	95	---	---	---
16	74	12	31	85	74	79	101	93	97	---	---	---
17	83	12	45	95	82	86	96	85	91	---	---	---
18	85	44	76	90	81	86	94	84	89	---	---	---
19	106	75	88	89	81	87	98	90	94	113	90	102
20	98	60	82	90	84	87	96	86	91	105	96	100
21	97	17	64	89	82	87	---	---	---	98	85	95
22	109	13	78	89	82	86	---	---	---	100	89	94
23	95	28	82	88	81	85	---	---	---	95	87	91
24	102	76	89	88	84	86	---	---	---	98	92	95
25	100	88	93	86	82	85	---	---	---	102	93	98
26	97	62	87	88	83	86	---	---	---	98	89	91
27	92	84	88	88	80	85	---	---	---	95	88	93
28	93	83	87	104	80	91	---	---	---	97	90	92
29	92	79	84	104	92	99	---	---	---	99	92	96
30	90	74	82	100	91	97	---	---	---	97	88	93
31	89	76	81	---	---	---	---	---	---	95	89	92
MONTH	136	12	82	104	58	83	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	95	87	92	93	73	85	98	59	80	98	73	84
2	98	90	94	94	72	87	88	74	81	100	66	82
3	94	89	92	94	43	74	89	77	82	111	74	93
4	92	78	88	86	43	71	100	73	86	103	67	96
5	91	85	89	86	57	77	96	71	89	109	76	93
6	94	81	90	75	67	71	90	77	86	103	76	91
7	94	84	91	79	69	75	92	77	82	90	74	82
8	95	85	91	88	66	78	90	69	82	99	67	83
9	95	83	93	95	80	88	87	25	67	107	51	84
10	93	87	91	101	86	92	86	23	58	103	60	89
11	91	81	88	102	87	95	85	59	73	104	45	87
12	86	79	85	102	58	88	84	68	74	95	71	86
13	86	79	84	98	66	90	97	72	83	95	67	83
14	87	74	84	100	85	92	117	82	95	95	65	86
15	97	80	91	97	86	91	100	80	89	88	61	78
16	98	90	95	96	83	90	88	65	80	98	39	77
17	95	89	92	110	88	100	84	70	77	80	61	72
18	91	85	89	104	93	99	81	69	74	93	62	76
19	92	87	90	99	89	94	108	69	83	102	72	87
20	93	88	91	92	84	89	100	76	87	88	59	77
21	96	88	92	97	81	87	99	82	92	80	60	69
22	91	80	85	94	84	90	106	79	89	78	67	72
23	86	78	83	101	88	93	104	84	95	81	59	70
24	88	74	84	103	86	97	94	74	87	99	53	69
25	86	80	84	99	90	93	88	75	81	93	45	74
26	95	83	88	101	86	93	89	72	79	76	46	63
27	95	62	89	107	90	99	92	73	82	81	51	68
28	93	80	86	117	87	102	89	70	81	84	62	72
29	---	---	---	105	91	98	83	68	77	98	67	79
30	---	---	---	103	91	98	97	65	78	111	42	94
31	---	---	---	102	89	96	---	---	---	95	42	78
MONTH	98	62	89	117	43	89	117	23	82	111	39	80

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	86	62	76	101	3	76	120	86	105	70	49	62
2	103	60	85	79	53	67	105	86	96	90	38	70
3	124	91	104	84	63	74	122	91	100	96	64	84
4	119	57	95	93	64	82	200	90	120	95	67	78
5	118	14	86	100	60	83	163	59	101	95	62	80
6	101	66	83	107	56	94	121	9	82	103	74	85
7	99	74	90	112	78	88	113	16	80	99	75	84
8	109	78	92	88	76	83	153	21	72	92	71	80
9	115	79	95	129	74	92	105	6	73	87	71	78
10	142	57	93	104	76	91	97	4	64	88	66	74
11	126	69	106	122	68	97	98	6	64	88	66	78
12	122	18	97	111	15	80	96	26	79	97	75	83
13	109	40	78	86	59	75	100	70	87	100	71	83
14	82	65	73	97	70	81	95	53	78	98	67	80
15	87	71	81	87	52	78	99	74	88	89	70	80
16	---	---	---	99	29	76	126	37	97	92	78	84
17	---	---	---	102	48	85	109	53	92	95	81	87
18	---	---	---	111	15	88	109	78	91	98	72	88
19	132	59	100	92	15	71	99	54	78	97	73	86
20	125	57	97	102	61	81	100	52	88	87	61	75
21	110	30	81	97	72	85	113	50	86	98	31	74
22	105	37	87	88	68	81	110	40	91	114	23	83
23	106	69	92	83	52	74	112	41	92	97	41	79
24	105	44	97	86	61	77	111	87	102	92	46	77
25	130	90	104	98	74	87	105	85	95	86	62	77
26	128	102	113	101	85	94	109	80	91	85	71	78
27	135	87	105	91	68	85	115	71	91	103	66	82
28	141	92	113	113	80	91	111	48	93	101	84	91
29	136	48	98	104	84	94	94	25	74	96	86	90
30	106	21	84	99	88	92	83	3	45	92	84	88
31	---	---	---	119	85	94	82	27	65	---	---	---
MONTH	---	---	---	129	3	84	200	3	86	114	23	81

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	91	5	36	78	71	75	96	90	92	82	80	81
2	71	5	19	79	63	73	97	87	90	86	80	84
3	52	8	31	71	53	61	92	89	91	85	80	83
4	59	9	35	64	54	59	91	87	90	87	75	82
5	50	25	39	72	55	63	92	82	86	87	74	81
6	36	9	19	71	56	63	89	81	83	82	70	74
7	18	10	13	64	54	56	84	80	83	79	74	76
8	17	10	11	57	53	55	94	81	83	78	74	76
9	64	11	19	71	50	54	89	81	83	86	74	76
10	80	14	48	77	48	68	95	82	89	84	74	79
11	102	35	67	79	72	76	90	77	81	82	75	79
12	99	33	59	76	71	74	95	76	86	89	77	80
13	34	15	23	77	70	73	93	76	84	89	81	85
14	39	14	25	82	67	73	97	76	89	87	81	84
15	45	22	37	82	65	74	98	71	91	88	79	82
16	42	34	38	76	64	68	95	64	75	87	80	83
17	39	24	31	87	59	71	93	63	84	88	82	84
18	29	19	25	86	57	73	90	81	85	106	84	93
19	31	18	23	80	54	68	95	79	84	103	91	97
20	22	15	18	79	66	73	95	84	88	107	96	100
21	20	9	14	81	75	78	95	85	89	102	90	96
22	12	6	9	78	74	76	90	75	84	95	86	89
23	74	4	18	83	75	79	81	77	79	97	91	94
24	76	4	24	80	77	79	81	74	77	96	89	92
25	42	4	14	81	77	78	84	72	79	103	86	92
26	90	6	34	81	76	78	81	75	78	94	88	90
27	88	8	70	80	72	75	82	73	76	98	86	92
28	87	8	59	98	76	87	82	73	78	94	82	86
29	82	67	76	95	89	91	82	78	80	95	81	84
30	83	63	76	99	91	96	83	78	80	97	82	90
31	86	64	78	---	---	---	82	78	81	97	86	92
MONTH	102	4	35	99	48	72	98	63	84	107	70	86

0208453300 PAMLICO RIVER AT LIGHT 5--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	97	84	91	80	40	59	80	43	59	89	11	50
2	95	80	83	72	42	54	72	48	61	79	3	36
3	94	70	82	53	37	45	61	49	53	86	8	42
4	92	71	84	69	36	48	55	40	50	68	19	42
5	92	79	88	76	36	61	61	34	43	48	10	22
6	90	75	82	76	68	71	42	30	36	91	8	41
7	94	72	83	75	62	69	36	30	33	94	77	86
8	94	82	86	73	60	67	33	19	25	94	57	81
9	95	81	87	85	62	70	29	20	26	92	48	76
10	94	76	87	68	62	65	51	17	25	87	18	40
11	91	76	88	67	58	62	65	13	31	56	8	23
12	87	75	86	84	55	60	68	3	19	75	9	29
13	86	54	77	92	58	78	42	2	9	78	5	29
14	86	64	72	92	65	81	19	2	7	70	3	16
15	93	64	80	88	56	73	14	0	3	71	10	32
16	91	73	78	90	65	80	62	0	9	34	8	25
17	90	69	80	92	67	80	73	0	40	80	15	52
18	88	66	70	97	68	86	73	55	68	71	7	27
19	86	57	67	91	75	82	90	61	72	72	6	40
20	88	48	61	87	79	84	88	64	74	77	9	40
21	88	50	58	84	73	78	92	45	73	74	14	47
22	83	45	67	88	70	82	85	67	77	79	33	64
23	81	39	52	91	72	79	92	12	58	82	54	67
24	83	37	60	94	68	75	83	4	32	65	44	53
25	83	53	71	94	52	74	92	5	55	66	33	44
26	89	48	78	94	51	72	89	6	68	69	46	58
27	84	43	56	89	43	54	85	0	17	77	48	63
28	87	39	60	88	34	59	94	2	43	85	50	69
29	---	---	---	94	35	44	87	5	39	71	25	44
30	---	---	---	92	62	78	82	10	60	96	6	32
31	---	---	---	75	42	57	---	---	---	77	33	54
MONTH	97	37	76	97	34	69	94	0	42	96	3	46

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	74	49	65	5	5	5	106	0	14	3	1	1
2	71	33	56	64	0	11	98	0	26	17	1	2
3	93	10	27	77	0	28	42	0	4	22	1	3
4	27	3	12	81	3	37	26	0	3	71	1	10
5	63	3	24	83	0	39	40	0	4	33	1	3
6	78	6	38	89	0	21	6	0	1	65	1	6
7	6	1	2	77	0	40	1	0	0	83	2	27
8	68	2	14	76	0	42	2	0	0	79	3	47
9	13	2	3	70	0	21	2	0	0	87	68	77
10	4	2	2	60	0	10	1	0	0	78	54	63
11	5	2	2	68	0	8	0	0	0	91	58	75
12	2	2	2	91	0	18	0	0	0	85	14	66
13	60	2	11	72	0	52	0	0	0	82	19	71
14	79	4	57	83	10	66	1	0	0	98	60	74
15	89	67	78	54	3	23	0	0	0	89	70	80
16	104	65	80	30	5	19	5	0	1	93	79	85
17	98	20	59	29	8	18	2	1	1	88	80	83
18	61	3	15	12	2	6	2	1	1	82	59	68
19	31	1	5	12	0	2	2	1	1	81	41	58
20	13	1	4	8	1	3	1	1	1	81	47	62
21	16	0	3	86	2	15	1	1	1	58	28	41
22	19	0	1	87	4	18	1	1	1	66	22	31
23	22	0	1	71	4	34	6	1	2	47	6	23
24	1	0	0	88	14	44	2	1	1	50	4	19
25	12	0	1	92	7	65	1	0	1	55	4	12
26	76	0	9	81	0	22	1	0	1	10	7	9
27	96	0	32	74	0	10	1	0	1	12	1	6
28	13	0	5	76	0	19	1	0	1	86	1	5
29	8	6	6	82	0	14	1	0	0	3	2	3
30	6	5	5	82	0	31	4	0	1	91	2	30
31	---	---	---	14	0	1	1	1	1	---	---	---
MONTH	104	0	21	92	0	24	106	0	2	98	1	38

0208455155 PAMLICO RIVER AT LIGHT 3

LOCATION.--Lat 35°21'24", long 76°38'48", 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. 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	16.2, September 4, 1989, September 1, November 10, 18, 1990	0.3, October 11, 1999
SALINITY (BOTTOM), ppt	20.4, November 5, 1990	0.5, October 11, 27, 1999
pH (TOP), standard units	9.2, August 1, 1999	6.6, October 7, 1999
pH (BOTTOM), standard units	9.0, August 28, 1999	6.6, May 27, 2000, July 12, 2001
WATER TEMPERATURE (TOP), °C	33.3, August 20, 1990, July 9, 1991	1.1, January 5, 2001
WATER TEMPERATURE (BOTTOM), °C	32.6, August 1, 1999	1.3, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	21.2, January 30, 1992	<1.0, August 5-11, 23-25, 27-31, September 2-5, 1992
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	15.9, September 30	3.3, April 10
SALINITY (BOTTOM), ppt	19.8, September 19	4.9, April 9
pH (TOP), standard units	8.9, October 6, August 21,	7.2, July 26, 27
pH (BOTTOM), standard units	8.6, September 6	6.6, July 12
WATER TEMPERATURE (TOP), °C	32.2, August 8	1.1, January 5
WATER TEMPERATURE (BOTTOM), °C	30.0, August 10	1.5, January 4
DISSOLVED OXYGEN (TOP), mg/L	13.8, August 21	4.6, June 14
DISSOLVED OXYGEN (BOTTOM), mg/L	12.2, January 4	<1.0, August 10, 18, 31, September 1, 2
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	178, August 21	58, June 14
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, June 11, 12	<10, August 23, 31, September 1, 2

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.5	9.1	13.0	12.6	12.8	13.8	13.5	13.6	12.4	11.5	12.2
2	9.0	7.4	8.6	12.8	11.7	12.5	13.9	13.4	13.6	12.5	12.1	12.3
3	7.8	5.1	6.2	12.4	11.5	12.0	14.0	13.1	13.6	12.8	11.6	12.5
4	5.8	4.9	5.4	12.1	11.0	11.6	13.9	13.3	13.5	12.1	11.3	11.9
5	5.5	4.5	5.0	12.7	11.4	12.3	13.5	11.5	12.7	12.5	11.1	11.9
6	6.1	5.1	5.4	12.1	11.3	11.7	12.3	11.5	11.8	12.4	11.9	12.2
7	7.1	5.3	6.2	13.3	11.3	12.0	11.5	10.6	11.2	12.2	11.4	11.8
8	7.9	6.4	7.0	13.6	11.1	12.1	11.5	10.9	11.2	11.7	10.9	11.3
9	9.8	7.3	8.7	13.9	11.5	12.5	12.1	11.2	11.6	12.6	11.1	11.9
10	10.4	7.4	8.6	14.4	13.1	13.9	12.2	11.5	11.9	13.0	10.4	12.0
11	8.9	7.3	8.4	14.3	13.8	14.0	11.7	11.2	11.4	12.0	10.4	11.3
12	9.3	7.4	8.7	14.5	14.1	14.3	11.9	11.3	11.6	12.8	11.4	11.8
13	9.5	8.5	9.0	14.3	13.2	13.7	12.4	11.9	12.2	14.3	12.8	13.7
14	9.1	8.4	8.8	13.7	13.3	13.5	12.7	12.0	12.3	14.1	11.8	13.0
15	9.0	8.4	8.7	14.0	13.6	13.9	12.8	12.2	12.6	12.4	11.3	11.7
16	9.0	8.4	8.7	13.6	12.8	13.2	12.8	12.4	12.6	13.3	12.0	12.7
17	9.5	8.5	8.9	14.0	13.2	13.5	13.4	12.5	12.8	13.1	12.5	12.8
18	10.0	9.0	9.5	14.2	13.8	14.0	13.2	12.0	12.6	13.1	12.3	12.7
19	10.7	9.5	10.1	14.1	13.7	13.9	12.9	11.7	12.6	14.0	12.0	13.0
20	10.9	10.0	10.4	14.1	13.5	13.7	12.8	12.3	12.6	13.7	12.9	13.3
21	10.4	9.4	9.6	13.9	13.4	13.7	13.0	12.3	12.7	13.7	13.2	13.5
22	12.2	9.3	10.1	14.3	13.1	13.8	12.7	11.6	12.1	13.7	13.5	13.6
23	12.3	10.6	11.5	13.9	12.7	13.4	12.7	12.0	12.3	14.0	13.5	13.7
24	12.5	10.5	11.7	14.1	13.7	14.0	12.3	10.0	11.1	13.9	11.3	13.3
25	11.6	10.5	10.9	14.3	13.8	14.1	12.2	11.0	11.8	13.5	11.3	12.9
26	12.6	11.1	12.0	14.1	13.3	13.6	11.8	10.9	11.4	13.6	11.3	12.4
27	13.1	12.1	12.6	13.9	12.9	13.5	11.0	9.6	10.2	13.1	12.2	12.8
28	12.8	11.7	12.3	13.7	13.0	13.4	12.0	9.7	10.8	13.0	12.5	12.8
29	13.1	11.5	12.4	13.7	13.1	13.3	11.8	10.2	10.7	12.6	12.1	12.4
30	13.0	11.5	12.6	13.7	13.4	13.5	11.7	9.3	10.5	14.4	12.4	13.2
31	13.0	12.3	12.7	---	---	---	12.2	10.4	11.2	13.1	12.6	12.9
MONTH	13.1	4.5	9.3	14.5	11.0	13.2	14.0	9.3	12.0	14.4	10.4	12.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	13.0	13.1	11.8	10.9	11.3	---	---	---	9.3	8.5	8.9
2	13.2	12.8	13.0	11.1	10.4	10.7	---	---	---	9.3	8.6	9.0
3	13.3	12.9	13.0	10.9	10.5	10.7	---	---	---	8.9	8.5	8.7
4	13.3	13.0	13.2	11.4	10.6	10.9	---	---	---	9.0	8.4	8.7
5	13.2	12.9	13.1	10.7	10.0	10.4	8.4	7.0	7.6	9.2	8.5	8.8
6	13.2	12.4	12.9	12.6	9.3	10.4	8.3	6.9	7.8	11.3	8.8	9.9
7	12.6	12.0	12.3	12.8	10.2	11.4	7.4	6.5	6.9	11.4	9.6	10.4
8	13.1	12.4	12.8	11.7	7.9	10.4	7.4	3.8	5.5	11.3	9.8	10.6
9	13.0	12.2	12.5	11.7	10.3	11.1	5.4	3.7	4.4	10.5	9.3	9.9
10	13.0	12.4	12.7	11.9	11.3	11.7	10.9	3.3	5.2	9.8	9.0	9.4
11	13.6	12.5	13.0	11.5	9.7	10.8	10.2	7.5	8.3	9.9	8.3	9.0
12	13.7	12.6	13.0	11.1	9.2	9.9	8.5	7.2	7.7	9.8	9.1	9.4
13	12.6	12.4	12.5	13.0	10.8	12.0	7.8	6.8	7.4	10.5	9.1	9.7
14	12.6	11.1	12.1	12.1	11.0	11.6	7.6	6.7	7.2	10.6	9.7	10.3
15	12.4	11.5	11.9	11.7	11.0	11.3	7.5	7.1	7.3	10.2	7.4	8.9
16	12.0	11.5	11.8	11.8	11.3	11.6	8.4	7.2	7.8	10.1	8.5	9.3
17	12.9	11.8	12.3	---	---	---	8.6	7.6	8.1	11.3	9.9	10.6
18	13.1	12.0	12.6	12.0	11.4	11.7	8.3	7.5	7.8	11.1	9.9	10.6
19	12.7	11.3	12.1	12.0	11.2	11.8	8.6	7.6	8.0	10.8	9.8	10.4
20	12.3	10.9	11.3	12.7	11.8	12.3	8.5	7.8	8.1	11.3	9.9	10.6
21	11.4	10.9	11.2	---	---	---	8.3	8.0	8.2	11.1	10.1	10.6
22	12.5	11.3	11.7	---	---	---	8.3	7.9	8.1	11.0	10.4	10.7
23	11.7	9.7	11.4	---	---	---	8.3	7.9	8.1	11.3	10.4	10.8
24	12.4	9.3	11.0	11.6	9.5	10.5	8.7	7.9	8.2	11.3	10.2	10.8
25	12.2	11.4	11.9	---	---	---	10.4	8.3	9.0	11.3	10.2	10.8
26	12.0	11.2	11.6	11.7	10.9	11.3	10.5	8.4	9.3	11.5	10.6	11.1
27	12.0	11.4	11.7	11.5	10.9	11.2	9.7	8.9	9.1	11.3	10.2	10.6
28	12.1	10.9	11.5	11.5	10.9	11.2	9.5	8.3	9.0	10.9	10.4	10.7
29	---	---	---	---	---	---	10.0	9.0	9.7	10.9	9.9	10.5
30	---	---	---	---	---	---	10.0	8.8	9.3	11.4	10.1	10.5
31	---	---	---	---	---	---	---	---	---	11.7	10.3	11.1
MONTH	13.7	9.3	12.3	---	---	---	---	---	---	11.7	7.4	10.0

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.7	11.2	11.5	5.7	4.9	5.2	12.1	11.5	11.8	11.1	9.7	10.5
2	11.3	10.2	10.8	7.6	5.6	6.7	11.9	11.4	11.6	13.2	10.7	11.5
3	10.4	9.4	10.1	9.9	7.6	9.2	11.8	11.1	11.4	13.1	12.2	12.5
4	10.7	9.5	10.2	9.3	8.2	8.7	11.9	10.9	11.4	13.0	11.7	12.2
5	10.6	9.7	10.2	9.2	8.8	9.0	11.3	10.4	10.9	12.7	12.1	12.3
6	10.7	9.2	9.8	10.6	9.1	9.5	10.9	9.5	10.4	13.4	12.6	12.9
7	9.6	8.5	9.2	10.7	9.5	10.2	10.0	9.4	9.7	13.4	12.0	12.8
8	9.9	8.4	9.1	10.4	9.7	10.1	10.0	9.1	9.6	14.0	12.7	13.3
9	10.4	8.8	9.8	10.3	9.7	9.9	9.8	8.0	9.2	12.9	12.6	12.7
10	10.1	8.2	9.3	10.4	9.7	10.0	10.0	8.6	9.1	13.1	12.6	12.9
11	8.8	7.7	8.3	10.0	9.7	9.8	11.3	9.5	10.5	13.1	12.8	13.0
12	8.9	7.4	8.2	10.7	9.7	10.0	11.7	9.7	10.6	13.9	13.0	13.3
13	10.5	7.2	8.6	11.2	10.2	10.7	11.1	10.4	10.8	14.5	13.5	13.9
14	12.2	10.1	11.3	10.8	10.2	10.3	10.9	9.4	10.3	14.5	13.5	14.0
15	11.4	8.8	10.2	10.8	10.1	10.3	11.8	10.2	11.0	15.1	14.1	14.6
16	10.0	9.0	9.5	10.1	9.5	9.7	11.8	10.1	10.8	15.0	13.7	14.2
17	9.8	9.1	9.4	9.9	9.5	9.7	11.3	10.0	10.5	14.4	13.7	14.1
18	9.3	8.8	9.0	10.0	9.5	9.7	10.9	9.9	10.5	14.4	13.4	14.1
19	9.2	7.3	8.4	10.3	9.4	9.8	10.4	9.8	10.1	14.2	12.6	13.3
20	7.5	5.8	6.8	11.3	10.3	10.7	10.7	9.5	9.9	13.6	12.8	13.2
21	6.5	5.4	6.2	11.8	10.7	11.3	10.3	9.5	9.9	13.4	12.8	13.0
22	7.4	5.3	6.0	11.7	11.1	11.5	11.7	10.3	10.9	13.0	12.7	12.8
23	8.4	6.2	7.3	11.7	10.9	11.3	11.5	10.0	10.7	13.1	12.7	12.8
24	7.5	5.1	6.5	11.7	11.1	11.3	11.0	9.8	10.4	14.9	12.6	13.3
25	8.2	6.6	7.4	11.6	11.0	11.3	11.7	10.8	11.3	13.9	13.4	13.6
26	9.2	6.5	7.7	11.6	11.1	11.3	11.7	10.6	11.2	13.9	13.5	13.7
27	9.0	5.9	6.8	12.4	11.2	11.7	11.1	9.2	10.2	13.9	13.5	13.7
28	7.2	4.9	5.8	12.8	11.7	12.2	---	---	---	14.5	13.7	14.2
29	5.3	4.5	4.9	12.4	11.4	11.8	---	---	---	14.9	14.2	14.6
30	5.0	4.3	4.6	12.0	11.4	11.6	---	---	---	15.9	14.9	15.3
31	---	---	---	12.1	11.5	11.9	10.0	8.9	9.3	---	---	---
MONTH	12.2	4.3	8.4	12.8	4.9	10.2	---	---	---	15.9	9.7	13.3

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.5	9.2	12.9	12.6	12.7	13.9	13.5	13.7	12.7	12.2	12.4
2	9.8	8.5	9.0	14.0	12.4	12.7	13.9	13.4	13.6	12.5	12.1	12.3
3	10.1	8.2	9.2	14.6	12.3	13.1	14.0	13.1	13.5	13.0	12.3	12.7
4	13.9	6.4	8.6	15.2	12.6	14.1	13.9	13.3	13.6	14.9	11.9	12.5
5	16.1	7.4	13.1	15.3	12.5	13.6	13.4	12.0	13.0	15.1	12.2	13.3
6	14.7	10.3	12.1	15.4	12.7	14.7	13.7	11.5	12.4	13.0	12.1	12.4
7	14.1	6.2	8.3	15.5	13.3	15.0	14.0	11.3	12.6	13.1	11.7	12.4
8	11.3	6.5	7.7	15.5	14.9	15.4	13.9	11.3	12.5	15.2	11.6	12.7
9	9.8	7.5	8.8	15.7	14.1	15.4	13.6	11.4	12.0	14.1	11.7	12.3
10	11.3	8.0	9.4	15.7	13.9	14.6	12.3	11.5	12.0	13.5	11.2	12.6
11	12.5	8.4	9.9	---	---	---	14.4	11.5	12.4	14.7	12.3	13.5
12	10.2	9.2	9.6	14.7	14.3	14.5	14.3	11.6	12.1	15.2	12.1	14.0
13	10.8	9.5	10.0	15.1	14.1	14.5	12.8	11.9	12.2	14.5	12.8	13.8
14	14.7	9.6	11.1	15.0	13.7	14.3	13.8	12.0	12.5	15.1	13.7	14.5
15	13.5	9.2	11.2	14.1	11.1	13.9	12.8	12.3	12.6	15.1	14.3	14.8
16	15.8	9.7	12.4	14.8	13.6	14.2	14.9	12.4	12.7	15.4	12.9	14.8
17	14.9	9.8	12.6	14.7	13.3	13.8	14.6	12.6	13.0	15.4	12.9	14.2
18	13.5	9.6	10.5	14.1	13.8	13.9	13.3	11.9	12.8	15.3	13.0	14.4
19	11.0	9.7	10.4	14.0	13.6	13.8	13.1	12.7	12.9	15.1	13.3	14.3
20	11.1	10.6	10.8	14.3	13.5	13.7	13.0	12.3	12.6	13.7	13.1	13.5
21	15.2	10.4	11.7	13.9	13.4	13.6	---	---	---	13.5	13.3	13.5
22	15.8	10.1	12.5	14.3	13.4	14.0	12.9	11.9	12.2	13.5	13.5	13.5
23	14.2	10.9	12.7	14.1	13.1	13.7	12.8	12.1	12.5	13.9	13.4	13.6
24	12.9	11.6	12.4	14.1	13.7	13.9	13.4	10.7	12.1	13.9	13.5	13.7
25	13.2	11.1	12.5	14.1	13.7	14.0	12.3	11.3	11.8	13.9	12.7	13.2
26	12.6	11.1	11.9	14.0	13.3	13.5	11.9	11.0	11.5	14.5	12.2	13.2
27	12.6	11.9	12.3	13.9	13.3	13.6	11.8	10.6	11.0	14.3	12.5	12.9
28	12.6	11.5	12.2	13.7	13.3	13.5	12.9	10.4	11.3	13.0	12.6	12.9
29	13.1	11.9	12.4	14.3	13.2	13.6	13.0	10.6	12.0	14.4	12.4	12.9
30	13.2	12.0	12.6	13.7	13.4	13.5	12.6	10.6	11.3	15.5	13.0	13.9
31	12.9	12.2	12.6	---	---	---	12.6	10.7	11.6	13.1	12.6	12.9
MONTH	16.1	6.2	11.0	---	---	---	---	---	---	15.5	11.2	13.3

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	13.1	13.2	13.0	11.1	11.7	---	---	---	10.0	9.3	9.6
2	13.2	13.0	13.1	13.0	10.9	11.8	---	---	---	11.0	9.2	9.7
3	14.2	13.0	13.1	13.5	11.1	12.0	---	---	---	11.7	8.7	9.9
4	14.5	13.2	13.7	13.3	10.9	11.9	---	---	---	12.2	8.7	10.3
5	13.6	13.0	13.2	13.8	10.1	11.0	13.7	10.2	12.1	11.9	9.0	9.4
6	13.4	12.6	13.1	12.6	9.3	10.4	12.5	7.6	10.3	11.3	9.0	10.0
7	14.0	12.4	13.1	12.8	10.5	11.9	13.7	6.8	7.9	11.4	9.6	10.4
8	13.9	11.7	13.4	14.6	10.6	12.9	13.7	6.0	9.2	11.3	10.2	10.7
9	14.5	12.4	13.1	13.9	11.5	12.7	14.5	4.9	9.0	10.9	9.9	10.3
10	13.2	12.4	12.7	12.3	11.7	11.9	14.4	6.4	12.4	11.3	9.3	10.2
11	13.5	12.6	13.0	11.9	10.7	11.6	13.3	7.6	10.1	11.7	8.5	10.3
12	13.7	12.9	13.4	15.3	10.7	12.7	9.1	7.3	8.0	12.1	8.9	9.7
13	13.3	12.4	12.7	15.4	11.0	12.7	12.6	6.8	7.7	10.6	8.8	9.8
14	13.3	12.2	12.7	13.1	11.6	11.8	12.0	6.7	8.1	11.5	10.2	10.7
15	13.7	12.0	12.7	13.1	11.3	11.9	10.0	6.5	7.8	11.7	9.8	10.8
16	13.7	11.8	12.7	12.0	11.3	11.7	9.3	6.6	7.7	12.9	9.8	11.1
17	13.0	11.8	12.4	---	---	---	10.2	7.2	8.5	12.9	10.6	11.3
18	13.2	12.2	12.8	---	---	---	8.5	6.5	7.6	11.3	10.6	11.0
19	13.5	12.5	13.0	12.0	11.2	11.8	9.7	7.5	8.6	13.7	10.1	10.9
20	13.4	11.1	12.4	12.7	11.8	12.4	10.4	8.1	8.8	13.7	10.7	11.9
21	13.1	11.1	11.4	---	---	---	12.5	8.1	8.6	12.5	9.2	10.9
22	12.5	11.3	11.8	---	---	---	9.8	8.2	8.4	13.4	10.5	10.9
23	12.8	11.3	11.9	---	---	---	9.1	8.1	8.3	12.2	10.7	11.2
24	13.5	11.3	12.6	13.3	10.7	11.7	8.9	8.0	8.3	12.7	11.1	11.7
25	12.9	11.8	12.2	---	---	---	10.4	8.5	9.0	12.9	11.2	11.9
26	13.7	11.7	12.1	11.7	10.9	11.3	10.6	8.5	9.3	12.1	10.7	11.4
27	12.9	11.7	12.0	11.5	11.1	11.3	9.9	9.0	9.4	11.9	9.5	10.9
28	13.0	11.4	12.0	11.5	11.1	11.3	11.5	8.7	9.3	11.1	10.6	10.8
29	---	---	---	---	---	---	10.1	9.5	9.9	11.3	10.4	10.9
30	---	---	---	---	---	---	10.4	9.2	9.9	11.3	9.8	10.5
31	---	---	---	---	---	---	---	---	---	11.5	10.7	11.3
MONTH	14.5	11.1	12.7	---	---	---	---	---	---	13.7	8.5	10.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.5	11.0	11.4	8.8	5.2	6.3	12.2	11.7	11.9	18.5	10.6	12.5
2	12.4	9.1	10.9	10.2	5.9	7.1	12.0	11.5	11.7	18.1	11.7	14.8
3	---	---	---	12.0	7.8	9.7	12.1	11.4	11.9	15.6	12.4	13.5
4	---	---	---	9.8	8.3	8.9	12.0	11.7	11.9	14.1	12.5	13.1
5	---	---	---	9.3	8.8	9.0	12.5	11.0	11.7	15.2	12.2	12.8
6	---	---	---	13.3	9.1	10.2	14.0	10.6	11.5	14.7	12.7	13.2
7	10.3	9.2	9.6	12.4	9.7	10.6	11.9	10.3	10.9	15.0	12.5	13.5
8	13.2	9.9	11.6	10.7	10.0	10.3	13.3	9.8	10.4	13.9	12.7	13.4
9	11.5	10.1	10.8	10.7	9.9	10.2	16.0	9.8	11.8	13.8	12.7	13.4
10	12.5	9.8	10.7	11.6	9.9	10.5	17.1	9.7	13.1	13.6	13.0	13.3
11	13.0	9.8	11.3	11.5	9.8	10.3	13.9	11.2	12.2	13.2	12.8	13.0
12	14.3	8.6	10.3	13.7	9.8	10.6	13.3	10.7	11.5	13.9	12.9	13.3
13	14.3	8.3	12.6	13.1	10.3	11.1	11.6	10.4	10.9	14.5	13.5	14.1
14	12.3	10.2	11.2	10.8	10.2	10.3	11.4	10.2	10.7	14.6	13.8	14.3
15	11.2	9.4	10.2	10.9	10.2	10.5	11.8	10.2	11.0	15.2	14.2	14.7
16	9.9	9.2	9.6	11.8	9.8	10.3	12.2	11.1	11.5	15.1	13.8	14.3
17	9.6	9.1	9.4	16.8	10.1	12.2	14.1	10.4	11.8	14.9	13.8	14.4
18	11.1	9.0	9.3	13.9	9.7	10.3	15.9	10.2	11.5	14.9	14.3	14.6
19	11.1	8.8	9.6	11.1	9.5	9.9	14.5	10.0	10.8	19.8	14.2	16.2
20	10.8	7.4	9.8	11.7	10.1	10.7	15.9	9.7	10.9	17.1	14.3	15.5
21	13.0	9.0	10.6	11.8	10.9	11.3	11.5	9.5	10.3	16.7	13.7	14.9
22	13.5	8.3	11.2	13.3	11.3	11.6	14.5	10.4	11.7	19.0	12.8	15.0
23	12.3	7.2	9.1	13.2	11.5	12.0	15.3	10.5	12.5	19.0	13.9	16.4
24	8.6	6.6	7.4	15.6	10.9	12.3	12.9	9.9	10.7	18.8	15.1	17.3
25	11.1	7.4	8.2	13.8	10.9	11.5	11.4	10.7	11.0	16.1	13.7	14.5
26	10.8	7.9	8.8	11.6	10.9	11.2	12.0	10.3	11.0	14.1	13.5	13.7
27	9.4	7.5	8.4	12.3	11.1	11.7	12.9	10.1	11.0	15.2	13.8	14.4
28	8.6	5.9	7.4	12.8	11.6	12.2	17.2	10.0	12.3	15.4	13.9	14.5
29	11.8	5.2	7.3	12.3	11.5	12.0	14.2	9.3	11.4	15.0	14.3	14.8
30	11.1	5.8	8.6	11.9	11.3	11.5	18.2	9.2	14.1	16.0	15.0	15.5
31	---	---	---	12.0	11.5	11.8	18.6	11.7	14.7	---	---	---
MONTH	---	---	---	16.8	5.2	10.6	18.6	9.2	11.6	19.8	10.6	14.3

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.6	7.8	7.8	7.5	7.7	7.8	7.7	7.7	8.1	8.0	8.1
2	8.1	7.5	7.7	7.9	7.6	7.8	7.7	7.7	7.7	8.1	8.0	8.0
3	8.6	7.9	8.2	7.9	7.6	7.8	7.7	7.6	7.6	8.1	8.0	8.0
4	8.7	8.2	8.4	7.9	7.5	7.8	7.8	7.6	7.7	8.1	8.1	8.1
5	8.7	8.4	8.6	7.9	7.6	7.8	7.8	7.7	7.7	8.2	8.1	8.1
6	8.9	8.3	8.6	7.9	7.4	7.8	7.8	7.8	7.8	---	---	---
7	8.7	8.5	8.6	7.9	7.4	7.7	7.9	7.8	7.8	8.1	8.0	8.0
8	8.6	8.1	8.3	7.9	7.4	7.7	7.9	7.9	7.9	8.1	8.1	8.1
9	8.2	7.8	8.0	8.0	7.4	7.7	7.9	7.9	7.9	8.1	8.0	8.0
10	8.3	7.8	8.0	7.8	7.5	7.7	7.9	7.9	7.9	8.0	7.8	7.9
11	8.4	8.0	8.2	7.8	7.6	7.7	8.1	7.8	7.9	8.0	7.9	7.9
12	8.3	8.1	8.2	7.9	7.5	7.7	8.1	7.9	8.0	8.0	7.9	7.9
13	8.3	8.1	8.2	8.0	7.5	7.8	8.1	7.9	8.0	7.9	7.8	7.8
14	8.6	8.1	8.4	8.0	7.5	7.8	8.1	8.0	8.0	8.0	7.8	7.9
15	8.6	8.2	8.4	8.0	7.7	7.8	8.1	8.0	8.1	8.0	7.8	7.9
16	8.5	8.2	8.3	8.0	7.5	7.8	8.2	8.1	8.1	7.9	7.8	7.9
17	8.5	8.2	8.3	---	---	---	8.2	8.0	8.1	8.0	7.9	7.9
18	8.4	8.1	8.2	---	---	---	8.3	8.0	8.1	8.2	7.9	8.1
19	8.5	8.0	8.1	---	---	---	8.4	8.1	8.3	8.2	8.1	8.2
20	8.2	8.0	8.1	---	---	---	8.2	8.2	8.2	8.1	8.0	8.1
21	8.2	8.1	8.2	---	---	---	8.2	8.1	8.2	8.0	8.0	8.0
22	8.2	7.9	8.1	---	---	---	8.3	8.2	8.2	8.0	7.8	7.9
23	8.0	7.8	7.9	---	---	---	8.2	8.1	8.1	8.0	7.9	7.9
24	8.1	7.7	7.9	---	---	---	8.3	8.1	8.2	8.2	7.9	8.0
25	8.1	7.9	8.0	---	---	---	8.2	8.2	8.2	8.2	7.9	8.0
26	8.0	7.8	7.9	---	---	---	8.3	8.1	8.2	8.1	7.9	8.0
27	7.9	7.7	7.8	---	---	---	8.4	8.2	8.3	8.1	7.9	8.0
28	7.8	7.6	7.7	---	---	---	8.3	8.1	8.2	8.1	8.0	8.1
29	7.9	7.6	7.7	7.7	7.6	7.6	8.2	8.1	8.2	8.1	8.0	8.0
30	7.8	7.6	7.7	7.7	7.6	7.6	8.2	8.1	8.2	8.0	7.8	7.9
31	7.8	7.5	7.7	---	---	---	8.2	8.1	8.1	7.9	7.9	7.9
MONTH	8.9	7.5	8.1	---	---	---	8.4	7.6	8.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	7.9	7.9	7.8	7.7	7.8	---	---	---	7.6	7.3	7.5
2	8.0	7.9	8.0	7.8	7.7	7.8	---	---	---	7.7	7.4	7.5
3	8.0	7.9	7.9	7.8	7.7	7.7	---	---	---	7.8	7.5	7.6
4	8.0	7.9	7.9	7.7	7.6	7.7	---	---	---	7.8	7.6	7.7
5	7.9	7.8	7.9	7.7	7.6	7.7	8.0	7.8	7.9	7.8	7.6	7.7
6	7.9	7.8	7.8	7.6	7.5	7.6	8.1	7.8	7.9	7.8	7.5	7.6
7	7.9	7.9	7.9	7.7	7.5	7.6	8.3	7.9	8.1	7.7	7.5	7.6
8	7.9	7.9	7.9	7.8	7.6	7.7	8.6	8.0	8.3	7.8	7.5	7.6
9	8.0	7.9	7.9	7.8	7.7	7.8	8.5	8.1	8.3	7.7	7.4	7.6
10	7.9	7.8	7.9	7.9	7.8	7.8	8.4	7.5	8.0	7.7	7.4	7.6
11	7.9	7.8	7.9	8.0	7.9	7.9	8.1	7.6	7.9	7.8	7.5	7.6
12	7.9	7.7	7.8	8.1	7.9	8.0	8.2	7.8	8.0	7.7	7.3	7.6
13	7.8	7.7	7.7	7.9	7.7	7.8	8.2	7.8	8.0	7.7	7.4	7.6
14	7.8	7.7	7.8	7.9	7.8	7.9	8.3	8.1	8.2	7.8	7.5	7.7
15	7.9	7.7	7.8	7.9	7.8	7.8	8.2	8.0	8.1	7.8	7.4	7.7
16	7.9	7.8	7.9	7.9	7.7	7.8	8.0	7.8	7.9	7.9	7.4	7.6
17	7.8	7.7	7.8	---	---	---	7.9	7.7	7.8	7.9	7.6	7.7
18	7.8	7.7	7.8	7.9	7.8	7.8	7.8	7.7	7.7	7.9	7.5	7.7
19	7.8	7.8	7.8	7.9	7.8	7.8	7.8	7.6	7.7	7.9	7.5	7.7
20	8.0	7.8	7.9	7.8	7.7	7.8	7.9	7.6	7.7	7.9	7.7	7.8
21	8.0	7.9	7.9	---	---	---	7.9	7.7	7.8	7.8	7.5	7.7
22	7.9	7.8	7.8	---	---	---	7.9	7.7	7.8	7.7	7.4	7.5
23	7.9	7.8	7.8	---	---	---	7.9	7.7	7.8	7.8	7.5	7.6
24	7.8	7.8	7.8	7.9	7.8	7.9	7.8	7.6	7.7	7.9	7.6	7.7
25	7.8	7.7	7.8	---	---	---	7.6	7.5	7.6	7.9	7.7	7.8
26	7.8	7.7	7.7	7.8	7.7	7.8	7.7	7.4	7.6	7.8	7.4	7.6
27	7.8	7.7	7.7	7.9	7.8	7.8	7.8	7.5	7.6	7.7	7.4	7.6
28	7.8	7.7	7.7	7.8	7.7	7.8	7.7	7.5	7.6	7.7	7.5	7.6
29	---	---	---	---	---	---	7.7	7.4	7.6	7.8	7.5	7.7
30	---	---	---	---	---	---	7.7	7.4	7.5	7.8	7.6	7.7
31	---	---	---	---	---	---	---	---	---	7.9	7.5	7.7
MONTH	8.0	7.7	7.8	---	---	---	---	---	---	7.9	7.3	7.6

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	7.6	7.7	8.3	7.7	8.0	8.2	7.8	8.1	8.3	7.9	8.1
2	8.0	7.6	7.8	8.0	7.6	7.8	8.2	8.1	8.1	8.4	8.1	8.2
3	8.1	7.8	8.0	8.1	7.7	7.9	8.2	8.0	8.1	8.4	8.2	8.3
4	8.1	7.9	8.0	8.0	7.7	7.9	8.2	8.0	8.1	8.4	8.2	8.3
5	8.2	7.9	8.0	8.0	7.7	7.9	8.2	8.1	8.1	8.4	8.2	8.3
6	8.1	7.6	7.9	8.1	7.7	7.9	8.2	8.0	8.1	8.5	8.3	8.4
7	8.1	7.8	8.0	8.3	7.7	7.9	8.3	8.0	8.1	8.4	8.2	8.3
8	8.1	7.7	7.9	8.0	7.7	7.8	8.2	7.9	8.1	8.4	8.1	8.3
9	8.2	7.7	7.9	8.5	7.7	8.1	8.5	8.0	8.3	8.2	8.0	8.1
10	8.3	8.0	8.2	8.2	7.9	8.1	8.5	8.3	8.4	8.2	8.0	8.1
11	8.4	8.1	8.3	8.4	7.7	8.1	8.4	8.0	8.2	8.1	7.9	8.0
12	8.4	8.1	8.3	8.2	7.9	8.0	8.1	8.0	8.1	8.3	7.9	8.1
13	8.3	7.8	8.1	8.1	7.8	7.9	8.1	7.8	7.9	8.3	8.0	8.2
14	7.9	7.3	7.6	8.1	7.7	7.8	8.2	7.8	8.0	8.2	8.0	8.1
15	7.8	7.5	7.6	8.2	7.7	7.9	8.2	7.9	8.0	8.1	8.0	8.1
16	8.3	7.6	7.9	8.3	7.9	8.1	8.6	7.9	8.3	8.1	8.0	8.0
17	8.0	7.6	7.8	8.2	7.9	8.0	8.5	8.1	8.3	8.3	8.0	8.1
18	8.2	7.8	8.0	8.2	7.8	8.0	8.4	8.1	8.2	8.3	8.1	8.2
19	8.3	7.6	8.0	8.2	7.8	8.0	8.3	7.9	8.1	8.3	8.1	8.2
20	---	---	---	8.2	7.9	8.1	8.3	8.1	8.2	8.3	8.0	8.2
21	8.4	7.5	8.3	8.1	8.0	8.1	8.9	8.1	8.4	8.3	8.2	8.3
22	8.5	8.0	8.3	8.2	7.9	8.1	8.6	8.2	8.4	8.4	8.2	8.3
23	8.1	7.5	7.9	8.1	7.8	8.0	8.5	8.3	8.4	8.4	8.3	8.3
24	8.5	7.3	8.1	8.0	7.6	7.9	8.4	8.3	8.4	8.3	8.1	8.3
25	8.5	7.5	8.1	7.9	7.4	7.6	8.3	8.2	8.2	8.3	8.2	8.2
26	8.3	7.9	8.1	7.7	7.2	7.4	8.3	8.0	8.2	8.3	8.2	8.2
27	8.8	7.7	8.1	7.5	7.2	7.4	8.5	8.2	8.3	8.2	8.1	8.2
28	8.4	8.1	8.3	7.9	7.4	7.6	---	---	---	8.1	8.0	8.0
29	8.4	8.1	8.3	7.9	7.6	7.8	---	---	---	8.0	8.0	8.0
30	8.5	8.0	8.2	7.9	7.6	7.8	---	---	---	8.0	7.8	7.9
31	---	---	---	8.1	7.7	7.9	8.4	8.0	8.2	---	---	---
MONTH	---	---	---	8.5	7.2	7.9	---	---	---	8.5	7.8	8.2

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.5	7.6	8.3	7.5	7.9	8.3	7.9	8.1	8.2	7.2	7.8
2	7.8	7.4	7.6	7.9	7.3	7.7	8.2	8.1	8.1	8.1	7.1	7.5
3	7.9	7.4	7.8	8.0	7.2	7.7	8.3	7.9	8.1	8.3	7.4	8.0
4	7.9	7.3	7.7	8.0	7.4	7.8	8.2	7.4	7.9	8.2	7.8	8.1
5	8.0	7.1	7.7	7.9	7.6	7.8	8.2	7.5	7.8	8.3	7.4	8.1
6	7.7	6.9	7.3	8.0	6.9	7.6	8.1	7.3	7.8	8.6	7.8	8.2
7	7.6	6.9	7.4	8.0	7.0	7.6	8.0	7.7	7.9	8.5	7.6	8.3
8	7.4	6.7	7.1	7.8	7.3	7.7	8.1	7.4	7.9	8.4	8.1	8.3
9	7.6	7.0	7.3	7.9	7.3	7.6	8.2	7.2	7.8	8.3	8.0	8.2
10	7.8	6.8	7.3	8.0	7.0	7.4	8.2	7.1	7.7	8.3	7.6	8.1
11	7.8	6.8	7.3	7.9	6.9	7.3	8.1	7.3	7.8	8.1	7.8	8.0
12	8.0	6.8	7.6	7.6	6.6	7.3	8.1	7.3	7.8	8.4	8.0	8.1
13	7.9	6.9	7.1	7.6	6.7	7.4	8.0	7.7	7.8	8.3	7.9	8.2
14	7.7	7.1	7.3	7.7	7.4	7.5	8.1	7.6	7.8	8.2	8.0	8.1
15	7.7	7.3	7.5	7.7	7.2	7.5	8.1	7.9	8.0	8.1	8.0	8.0
16	8.0	7.5	7.6	7.7	7.3	7.6	8.2	7.7	8.0	8.1	8.0	8.1
17	7.9	7.6	7.8	7.9	7.2	7.6	8.2	7.1	7.8	8.1	7.9	8.0
18	8.1	7.4	7.9	8.0	7.3	7.8	8.0	7.0	7.7	8.2	7.9	8.1
19	8.1	7.4	7.9	8.0	7.7	7.9	8.1	7.1	7.7	8.1	7.6	7.9
20	8.1	7.4	7.8	8.1	7.8	8.0	8.0	7.0	7.8	8.1	7.8	8.0
21	8.0	7.1	7.5	8.1	7.8	8.0	8.1	7.5	7.9	8.2	7.8	8.0
22	7.9	7.0	7.4	8.0	7.2	7.8	8.3	7.1	8.0	8.3	7.3	7.9
23	7.9	7.0	7.5	7.9	7.1	7.6	8.4	7.0	7.7	8.2	7.2	7.8
24	8.4	7.3	7.9	7.9	6.9	7.4	8.4	7.6	8.2	8.1	7.3	7.7
25	8.4	7.1	7.8	7.8	7.1	7.6	8.2	8.1	8.2	8.2	7.8	8.1
26	8.2	7.0	7.9	7.9	7.5	7.7	8.3	8.0	8.2	8.2	8.1	8.2
27	8.1	7.1	7.7	7.9	7.6	7.8	8.2	7.3	8.0	8.3	8.0	8.2
28	8.1	7.2	7.6	8.1	7.7	7.9	8.3	7.3	7.8	8.2	7.9	8.1
29	8.1	6.9	7.6	8.0	7.8	7.9	8.2	7.5	7.9	8.2	8.1	8.2
30	7.8	7.1	7.4	7.9	7.7	7.8	8.0	7.2	7.6	8.1	8.0	8.1
31	---	---	---	8.1	7.8	7.9	7.8	7.2	7.5	---	---	---
MONTH	8.4	6.7	7.6	8.3	6.6	7.7	8.4	7.0	7.9	8.6	7.1	8.0

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	20.9	21.1	16.6	15.9	16.2	9.9	8.9	9.2	2.6	2.1	2.4
2	21.7	21.0	21.3	16.1	15.2	15.7	9.0	8.5	8.8	2.5	2.0	2.3
3	22.2	20.3	21.1	16.2	15.1	15.7	8.5	7.0	7.7	2.4	1.7	2.0
4	23.0	21.0	21.6	16.3	15.0	15.6	7.0	6.2	6.7	2.0	1.4	1.7
5	23.1	21.3	22.3	16.3	15.4	15.9	6.6	5.4	6.1	2.2	1.1	1.7
6	24.6	22.4	23.5	16.1	14.8	15.3	6.1	5.5	5.8	---	---	---
7	24.2	22.5	23.3	15.6	14.7	15.2	6.1	5.1	5.6	3.1	1.9	2.6
8	22.5	18.9	20.7	16.2	15.0	15.6	6.3	5.4	5.8	3.1	2.6	2.9
9	19.0	17.6	18.2	17.5	16.0	16.5	6.2	5.7	6.0	3.2	2.7	3.0
10	17.8	16.3	16.9	17.5	16.7	17.1	6.4	5.9	6.2	3.4	2.4	2.8
11	17.8	15.8	16.6	16.7	16.0	16.3	7.0	6.2	6.5	3.8	2.2	3.0
12	18.3	15.7	17.0	16.0	15.1	15.6	7.7	6.7	7.2	4.3	3.3	3.7
13	19.1	16.5	17.4	15.8	14.6	15.1	7.4	6.6	7.1	4.5	3.5	4.0
14	19.6	16.7	17.9	15.0	14.6	14.9	9.6	7.2	8.3	5.4	4.1	4.5
15	20.9	17.5	18.5	14.6	13.7	14.2	9.0	8.3	8.6	6.9	5.1	5.9
16	20.5	17.7	18.5	13.8	13.1	13.5	9.0	8.3	8.5	7.6	5.1	6.2
17	19.8	18.3	18.9	13.5	13.1	13.4	10.8	8.7	9.7	7.3	5.6	6.4
18	19.5	18.9	19.2	13.2	12.4	12.8	9.7	8.1	9.0	7.4	6.4	6.9
19	20.1	18.9	19.4	12.5	11.8	12.1	8.7	7.7	8.4	8.8	6.4	7.2
20	20.0	18.7	19.4	11.9	11.2	11.4	8.4	7.0	7.7	9.8	7.8	8.8
21	20.3	18.3	19.0	11.3	10.0	10.7	7.7	6.8	7.3	7.8	7.0	7.4
22	20.3	18.9	19.4	10.0	8.4	9.3	7.2	6.5	6.9	7.2	6.7	7.0
23	19.5	18.5	19.0	8.9	7.9	8.3	6.5	5.4	5.9	6.9	6.5	6.7
24	20.0	17.8	18.6	8.4	8.0	8.2	5.4	4.5	5.0	7.1	5.9	6.5
25	19.3	17.8	18.5	8.8	8.2	8.4	5.1	4.1	4.7	6.4	5.9	6.2
26	18.8	18.2	18.5	9.2	8.7	9.0	4.1	3.4	3.7	6.2	5.3	5.7
27	18.8	18.2	18.5	10.0	8.9	9.2	3.8	2.9	3.4	6.0	5.1	5.5
28	19.0	18.0	18.5	10.0	8.9	9.3	3.7	3.0	3.4	7.2	5.2	5.8
29	18.4	17.3	17.9	10.1	8.9	9.4	3.4	2.7	3.1	6.5	4.9	5.6
30	17.6	16.9	17.3	9.8	9.4	9.5	3.4	2.8	3.2	8.4	5.9	6.8
31	17.1	16.0	16.7	---	---	---	3.1	1.9	2.5	8.2	7.2	7.6
MONTH	24.6	15.7	19.2	17.5	7.9	13.0	10.8	1.9	6.4	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.7	7.7	8.0	11.5	10.3	11.0	---	---	---	20.0	17.2	18.1
2	8.3	7.7	8.1	11.6	10.8	11.1	---	---	---	20.6	18.2	19.1
3	8.5	7.5	7.8	11.4	11.1	11.3	---	---	---	21.3	19.3	20.2
4	7.5	7.2	7.4	11.8	11.0	11.3	---	---	---	22.6	20.0	21.1
5	8.3	7.3	7.7	11.8	10.8	11.3	14.0	12.0	13.1	23.8	21.1	21.9
6	9.0	7.2	7.9	10.8	8.7	9.7	14.8	13.0	13.8	22.4	20.1	21.3
7	9.1	7.7	8.3	8.7	7.8	8.4	17.3	14.5	15.2	20.1	19.4	19.8
8	9.2	7.8	8.5	9.4	7.2	8.3	19.7	15.8	17.5	20.7	19.0	19.8
9	10.6	8.4	9.2	9.2	7.9	8.5	21.4	17.2	18.5	21.3	19.0	19.9
10	10.3	9.5	9.9	9.8	8.4	8.8	21.2	16.4	18.8	23.1	19.7	20.7
11	10.0	8.9	9.5	10.9	8.3	9.5	19.4	16.8	18.6	22.7	20.1	21.0
12	9.0	8.6	8.8	10.6	9.2	10.0	20.6	18.6	19.5	22.5	20.4	21.4
13	9.0	8.8	8.9	12.1	10.1	11.1	20.7	19.5	20.1	22.3	21.2	21.7
14	10.2	8.9	9.3	12.9	11.4	12.0	21.7	19.9	20.3	22.4	21.0	21.7
15	10.9	9.6	10.2	12.6	12.1	12.4	20.1	19.5	19.8	21.7	20.9	21.2
16	11.9	10.6	11.3	12.9	12.0	12.4	19.9	19.0	19.5	21.9	20.6	21.0
17	11.7	10.9	11.4	---	---	---	19.2	17.2	18.4	20.8	19.4	20.2
18	10.9	9.9	10.5	13.2	12.3	12.7	17.2	14.6	15.8	21.5	19.3	20.3
19	10.4	8.5	9.8	12.8	11.6	12.3	16.5	14.6	15.3	23.2	20.7	21.8
20	11.0	9.3	10.2	12.0	11.3	11.5	16.4	14.7	15.6	23.5	21.9	22.6
21	12.2	10.4	11.2	---	---	---	17.1	15.7	16.4	23.5	22.4	22.9
22	11.4	9.6	10.3	---	---	---	19.3	16.5	17.6	24.3	22.6	23.3
23	10.7	9.4	9.8	---	---	---	21.7	17.5	18.7	23.6	23.0	23.3
24	10.3	9.0	9.6	13.3	11.4	12.4	20.4	18.5	19.3	25.8	22.7	23.6
25	11.0	9.5	10.1	---	---	---	19.5	17.5	18.7	24.8	23.5	24.2
26	12.4	10.7	11.4	12.0	11.3	11.6	17.5	16.4	17.0	24.5	23.7	24.1
27	12.3	10.9	11.5	12.4	10.7	11.4	19.8	16.1	17.2	24.6	23.5	24.1
28	11.9	10.9	11.4	12.0	10.9	11.4	17.9	16.4	17.3	24.2	23.5	23.9
29	---	---	---	---	---	---	17.8	16.9	17.3	24.8	23.3	23.8
30	---	---	---	---	---	---	19.1	16.6	17.6	24.4	23.4	23.9
31	---	---	---	---	---	---	---	---	---	23.8	23.1	23.5
MONTH	12.4	7.2	9.6	---	---	---	---	---	---	25.8	17.2	21.8

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	23.0	23.4	29.6	28.4	29.1	26.3	25.2	25.8	27.1	26.4	26.8
2	24.9	23.1	23.9	29.0	27.4	28.3	26.3	25.3	25.8	27.3	26.2	26.7
3	25.7	23.8	24.7	27.5	26.6	27.1	27.9	25.5	26.4	27.1	25.7	26.5
4	25.7	24.6	25.0	27.6	26.4	27.1	28.2	26.3	27.1	26.8	26.0	26.5
5	28.2	24.5	25.7	27.9	26.7	27.2	28.8	26.6	27.5	27.6	25.9	26.6
6	27.2	25.0	26.1	27.7	26.7	27.2	29.5	27.4	28.1	27.1	25.9	26.5
7	27.1	26.4	26.8	27.7	25.9	26.7	31.2	27.3	28.8	27.3	25.5	26.4
8	27.0	26.3	26.7	26.5	25.8	26.0	32.2	28.7	29.8	26.8	25.8	26.3
9	28.0	26.0	26.6	30.0	25.6	27.1	31.6	29.1	29.9	26.9	26.2	26.5
10	28.7	26.2	27.0	28.6	26.5	27.6	31.0	29.5	30.2	27.8	26.4	27.1
11	28.2	26.5	27.1	30.0	27.5	28.5	30.1	29.0	29.5	27.4	26.8	27.0
12	29.2	26.7	27.7	29.4	27.8	28.4	29.7	28.5	29.0	27.4	26.3	26.7
13	28.2	27.3	27.7	27.8	26.8	27.2	29.8	28.6	29.0	27.6	26.0	26.6
14	27.4	26.2	26.6	27.2	26.3	26.8	28.9	28.2	28.5	26.4	25.4	26.1
15	26.4	25.8	26.1	28.5	26.1	27.0	28.8	27.7	28.2	25.4	23.6	24.4
16	27.7	25.5	26.3	28.6	26.3	27.2	29.5	27.4	28.2	23.6	22.5	23.0
17	26.2	25.9	26.1	28.1	26.5	27.1	29.7	27.4	28.3	23.7	22.4	23.0
18	27.2	25.6	26.2	28.0	26.5	27.1	29.3	28.0	28.4	25.2	22.7	23.3
19	28.9	25.8	27.0	27.2	26.6	26.9	29.0	27.4	28.1	23.9	22.5	23.2
20	27.6	26.4	27.0	27.0	26.1	26.5	28.3	27.6	27.9	23.6	23.0	23.4
21	28.9	26.8	27.4	26.8	25.6	26.2	29.5	27.1	27.8	24.7	23.2	23.8
22	28.8	26.9	27.6	27.3	25.8	26.5	29.0	27.4	28.2	25.6	23.7	24.4
23	27.6	26.6	27.1	27.0	26.3	26.6	29.2	27.1	28.1	25.9	24.6	25.1
24	27.7	26.4	27.0	27.3	26.4	26.8	28.1	27.3	27.6	25.7	24.9	25.2
25	28.6	25.8	27.1	28.3	26.7	27.3	27.5	26.8	27.2	25.3	24.6	25.0
26	27.8	26.4	27.2	27.7	27.0	27.4	27.0	26.2	26.6	24.6	22.9	23.6
27	30.9	27.1	28.0	27.3	26.3	26.8	28.9	26.4	27.2	23.6	22.3	22.8
28	31.2	28.2	29.4	27.7	25.8	26.4	---	---	---	22.8	22.0	22.3
29	31.0	28.3	29.4	26.4	25.6	26.1	---	---	---	22.1	21.0	21.6
30	30.6	28.5	29.4	26.1	25.6	25.8	---	---	---	21.0	19.9	20.5
31	---	---	---	26.5	25.2	25.8	27.6	26.2	26.9	---	---	---
MONTH	31.2	23.0	26.8	30.0	25.2	27.0	---	---	---	27.8	19.9	24.9

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	21.0	21.1	16.6	15.9	16.2	9.4	9.0	9.1	2.6	2.1	2.4
2	21.6	21.0	21.2	16.5	15.3	15.8	9.1	8.5	8.8	2.6	2.1	2.4
3	21.6	21.0	21.3	16.5	15.2	15.7	8.5	7.0	7.8	2.4	1.8	2.1
4	21.8	21.2	21.4	16.2	15.9	16.1	7.0	6.3	6.7	2.6	1.5	2.0
5	21.8	21.4	21.5	16.3	15.7	16.1	6.6	5.8	6.3	2.8	1.7	2.3
6	21.9	21.5	21.6	16.4	15.5	16.2	6.6	5.6	6.1	---	---	---
7	23.8	21.6	22.8	16.4	15.7	16.2	6.7	5.5	6.1	2.8	2.0	2.4
8	22.4	19.0	20.8	16.4	16.2	16.3	6.6	5.5	6.1	3.2	2.3	2.8
9	19.0	17.7	18.3	16.8	16.2	16.3	6.6	5.7	6.1	3.2	2.9	3.1
10	17.9	16.6	17.2	17.4	16.2	16.9	6.4	5.9	6.2	3.0	2.4	2.8
11	17.8	16.1	16.9	16.7	16.0	16.3	6.8	6.3	6.4	3.6	2.8	2.9
12	17.5	16.5	17.0	16.0	15.3	15.7	7.6	6.5	7.1	4.2	3.0	3.3
13	17.5	16.5	17.1	15.6	14.9	15.2	7.4	6.7	7.1	4.3	3.5	3.9
14	17.8	17.1	17.5	15.5	14.7	15.2	9.4	7.1	8.2	4.3	4.0	4.1
15	18.0	17.5	17.8	14.7	14.0	14.3	9.0	8.3	8.6	4.5	4.1	4.3
16	18.2	17.9	18.0	14.5	13.4	14.1	8.9	8.2	8.5	6.1	4.2	4.5
17	19.0	18.0	18.3	14.3	13.1	13.6	10.5	8.2	9.6	6.4	4.3	5.1
18	19.6	18.2	19.1	13.2	12.5	12.8	9.7	8.1	9.0	6.8	4.5	5.2
19	19.8	18.9	19.4	12.6	11.8	12.1	9.1	8.4	8.7	8.0	4.6	5.8
20	19.5	18.7	19.1	11.9	11.2	11.4	8.4	7.1	7.8	8.9	7.8	8.2
21	19.5	18.7	19.1	11.4	10.0	10.7	---	---	---	7.8	7.1	7.4
22	19.8	18.8	19.2	10.0	8.9	9.4	7.5	6.5	7.0	7.2	6.7	7.0
23	19.4	18.5	18.9	9.1	8.0	8.5	6.6	5.4	6.0	6.9	6.5	6.7
24	18.5	18.0	18.3	8.4	8.0	8.2	6.4	4.9	5.3	6.6	6.1	6.3
25	19.0	18.2	18.6	8.7	8.1	8.4	5.1	4.2	4.8	6.5	5.9	6.3
26	18.7	18.2	18.5	9.2	8.7	9.0	4.2	3.4	3.8	6.0	5.3	5.6
27	18.8	18.2	18.5	9.5	8.8	9.2	4.0	3.3	3.6	6.0	5.1	5.5
28	18.7	18.0	18.4	9.5	8.9	9.2	3.9	3.3	3.7	5.6	5.2	5.4
29	18.4	17.7	18.0	9.6	9.0	9.4	3.8	2.9	3.3	5.9	5.3	5.6
30	18.3	17.0	17.4	9.8	9.4	9.5	3.6	3.1	3.4	8.2	5.4	6.5
31	17.1	16.2	16.7	---	---	---	3.2	2.4	2.7	8.1	7.2	7.6
MONTH	23.8	16.1	19.0	17.4	8.0	13.1	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.1	7.7	7.9	11.5	10.6	11.1	---	---	---	18.6	17.1	17.8
2	8.3	8.1	8.2	11.3	11.0	11.1	---	---	---	19.3	17.4	18.3
3	8.1	7.5	7.7	11.3	11.1	11.2	---	---	---	20.6	18.0	19.2
4	7.5	7.2	7.4	11.3	11.0	11.2	---	---	---	21.7	18.1	19.5
5	8.0	7.4	7.6	11.7	10.8	11.3	13.5	12.5	12.9	22.0	18.6	21.2
6	8.2	7.4	7.7	10.8	8.7	9.7	14.3	12.8	13.2	22.1	20.1	21.1
7	8.1	7.6	7.8	8.7	7.9	8.4	16.1	13.3	14.6	20.1	19.4	19.7
8	8.6	7.6	8.0	8.7	7.8	8.3	17.0	13.1	15.2	20.7	19.0	19.5
9	10.1	7.8	8.9	8.9	8.3	8.6	17.5	13.2	16.0	20.6	19.2	19.6
10	10.1	9.5	9.9	9.2	8.3	8.7	18.6	13.8	15.2	20.2	19.6	19.9
11	10.1	8.9	9.5	10.1	8.2	8.9	19.2	14.3	17.0	21.2	20.0	20.4
12	9.0	8.6	8.7	9.8	8.6	9.1	20.3	18.5	19.3	21.9	20.4	21.1
13	9.0	8.8	8.9	12.0	8.7	10.7	20.4	16.4	19.7	22.0	21.2	21.6
14	9.4	8.9	9.0	12.6	11.0	11.8	20.3	16.7	19.6	22.4	21.0	21.7
15	10.3	8.9	9.5	12.4	11.2	12.0	20.1	19.1	19.6	21.8	21.3	21.5
16	11.9	9.0	10.5	12.7	11.9	12.2	19.9	18.9	19.4	21.4	20.8	21.1
17	11.7	10.9	11.4	---	---	---	19.5	17.2	18.5	21.2	19.8	20.4
18	11.0	10.0	10.5	---	---	---	17.2	14.6	15.8	20.9	19.7	20.1
19	10.3	9.6	9.9	12.7	11.6	12.3	16.1	14.6	15.3	22.7	20.2	21.1
20	10.7	9.7	10.0	12.0	11.3	11.5	16.3	15.1	15.6	22.9	20.2	21.5
21	11.5	10.4	10.9	---	---	---	17.0	15.7	16.3	23.3	21.4	22.7
22	11.4	9.6	10.3	---	---	---	18.1	16.6	17.0	23.8	22.0	23.0
23	10.2	9.4	9.6	---	---	---	19.1	17.6	18.2	23.6	22.9	23.3
24	9.9	9.3	9.6	12.7	11.7	12.2	20.4	18.6	19.2	23.6	22.7	23.1
25	11.0	9.6	10.1	---	---	---	19.5	17.5	18.8	24.5	22.6	23.7
26	12.3	10.4	11.2	11.9	11.2	11.5	17.5	16.4	17.0	24.4	23.6	24.0
27	11.8	10.9	11.2	11.9	10.7	11.2	17.8	16.2	16.6	24.5	23.6	24.1
28	11.7	10.9	11.3	11.9	11.0	11.4	17.9	16.4	17.2	24.2	23.7	23.9
29	---	---	---	---	---	---	17.8	16.9	17.4	24.1	23.5	23.7
30	---	---	---	---	---	---	18.6	16.6	17.2	24.4	23.4	23.9
31	---	---	---	---	---	---	---	---	---	23.9	23.1	23.5
MONTH	12.3	7.2	9.4	---	---	---	---	---	---	24.5	17.1	21.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.0	23.0	23.4	29.5	28.3	28.8	26.3	25.2	25.8	27.0	26.5	26.8
2	24.4	23.1	23.6	28.9	27.5	28.2	26.2	25.3	25.8	26.9	26.4	26.7
3	25.5	23.8	24.5	27.5	26.6	27.1	27.0	25.7	26.0	26.9	26.0	26.6
4	25.3	23.9	24.6	27.6	26.5	27.1	27.0	25.9	26.3	26.7	26.4	26.5
5	27.1	23.8	25.0	27.9	26.7	27.2	27.4	26.1	26.5	27.3	26.0	26.5
6	26.7	24.0	25.4	27.6	27.0	27.2	28.4	26.6	27.2	27.1	25.9	26.5
7	27.1	26.1	26.7	27.4	25.9	26.6	28.8	27.5	27.9	27.0	25.9	26.3
8	26.9	24.9	26.0	26.8	25.8	26.2	29.2	27.9	28.7	26.8	26.0	26.3
9	26.4	25.9	26.2	26.3	25.6	25.9	29.3	27.2	28.7	27.0	26.3	26.6
10	26.7	25.5	26.2	27.8	25.8	26.4	30.0	26.9	28.7	27.3	26.7	26.9
11	27.1	25.4	26.4	29.0	26.4	27.5	29.6	28.6	29.2	27.3	26.8	27.0
12	28.2	25.6	26.7	29.0	26.7	28.0	29.7	28.2	28.9	27.4	26.3	26.7
13	27.5	25.7	26.3	27.6	26.8	27.1	29.5	28.6	29.0	26.9	26.0	26.4
14	27.3	26.2	26.5	27.2	26.3	26.7	28.9	28.1	28.4	26.4	25.4	26.1
15	26.3	25.8	26.1	27.0	26.2	26.5	28.7	27.7	28.2	25.4	23.6	24.4
16	26.9	25.5	25.9	26.9	26.4	26.7	28.4	27.8	28.0	23.6	22.4	23.0
17	26.2	25.9	26.1	27.1	26.3	26.7	28.5	27.5	28.0	22.9	22.3	22.6
18	26.7	25.6	26.0	27.6	26.5	26.9	28.6	27.9	28.2	23.4	22.5	22.7
19	27.1	25.7	26.3	27.2	26.7	26.9	28.8	27.6	28.1	23.1	22.6	22.8
20	27.1	26.4	26.8	26.9	26.0	26.5	28.5	27.7	28.0	23.7	23.1	23.4
21	27.2	26.3	26.7	26.6	25.6	26.2	27.7	27.1	27.4	23.9	23.1	23.5
22	27.3	26.3	26.8	27.0	25.8	26.2	28.9	27.5	28.0	24.1	23.2	23.7
23	27.6	26.6	27.0	26.8	26.4	26.6	28.5	27.5	28.0	24.5	23.3	23.9
24	27.5	26.7	27.0	27.0	26.2	26.5	28.1	27.4	27.7	25.2	23.5	24.1
25	28.2	26.1	26.9	28.0	26.6	27.1	27.5	26.9	27.2	25.1	24.4	24.7
26	27.8	26.6	27.1	27.7	27.0	27.4	27.0	26.2	26.6	24.6	23.1	23.6
27	28.0	27.0	27.3	27.4	26.4	26.8	26.9	26.3	26.6	23.3	22.6	22.8
28	28.8	27.4	27.9	27.1	25.9	26.3	27.7	26.6	26.9	22.8	21.9	22.3
29	28.8	27.4	28.2	26.4	26.0	26.2	27.5	26.9	27.1	22.1	21.0	21.5
30	28.8	27.8	28.4	26.2	25.6	25.8	27.1	26.5	26.8	21.0	20.0	20.5
31	---	---	---	26.5	25.2	25.7	27.0	26.5	26.8	---	---	---
MONTH	28.8	23.0	26.3	29.5	25.2	26.8	30.0	25.2	27.6	27.4	20.0	24.7

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.9	9.2	9.5	8.5	7.9	8.3	---	---	---	8.6	7.8	8.2
2	9.9	9.4	9.7	8.5	8.0	8.2	---	---	---	8.5	7.8	8.1
3	10.0	9.4	9.6	8.3	7.7	8.1	---	---	---	8.6	7.4	8.1
4	9.8	9.5	9.6	---	---	---	---	---	---	8.0	7.4	7.7
5	9.7	9.3	9.6	---	---	---	10.5	9.8	10.0	7.9	7.5	7.7
6	9.9	9.3	9.6	8.5	7.8	8.3	10.4	9.6	10.0	7.9	7.3	7.6
7	10.1	9.5	9.8	9.2	8.3	8.7	10.6	9.7	10.1	8.0	7.3	7.7
8	10.2	9.7	10.0	9.5	8.8	9.1	11.5	9.6	10.4	8.6	7.6	8.0
9	10.1	9.3	9.9	9.3	8.9	9.1	11.0	9.7	10.2	8.5	7.6	8.1
10	9.7	8.8	9.3	9.5	8.9	9.2	10.5	7.6	9.3	8.6	7.6	8.3
11	9.5	9.0	9.3	10.1	9.2	9.5	8.9	7.7	8.5	8.6	7.5	8.2
12	9.4	8.9	9.2	10.1	9.3	9.8	8.9	8.0	8.4	8.2	7.0	7.8
13	9.4	8.9	9.2	9.3	8.3	8.8	8.9	7.2	8.1	8.2	6.9	7.5
14	9.5	8.9	9.2	9.0	8.4	8.7	8.9	7.8	8.2	8.1	7.3	7.7
15	9.4	9.1	9.2	8.8	8.4	8.6	8.6	7.9	8.2	7.8	7.0	7.5
16	9.3	8.9	9.2	8.6	8.0	8.4	8.1	7.3	7.6	8.6	6.0	7.2
17	9.0	8.3	8.6	---	---	---	7.8	7.2	7.5	8.4	6.9	7.5
18	9.0	8.2	8.6	8.9	8.3	8.6	8.1	7.5	7.8	8.3	7.1	7.7
19	9.2	8.6	8.9	8.8	8.2	8.5	9.5	7.5	8.5	8.5	6.8	7.7
20	9.4	8.8	9.1	8.8	8.4	8.6	9.5	8.5	9.1	8.0	7.3	7.7
21	9.2	8.9	9.0	---	---	---	9.4	9.0	9.2	7.6	6.6	7.2
22	9.0	8.4	8.6	---	---	---	9.4	8.7	9.1	7.1	6.1	6.5
23	9.1	8.5	8.8	---	---	---	9.1	8.6	8.9	6.8	5.9	6.4
24	9.1	8.8	9.0	9.3	8.6	9.0	8.8	8.3	8.6	7.8	6.3	7.0
25	9.0	8.3	8.7	---	---	---	8.4	8.0	8.1	7.9	7.3	7.6
26	8.8	8.1	8.5	9.0	8.5	8.8	8.8	7.8	8.4	7.7	6.4	7.0
27	8.7	8.1	8.4	9.2	8.6	8.9	9.2	8.4	8.8	7.6	6.3	7.2
28	8.6	8.1	8.3	9.9	8.9	9.4	9.1	8.3	8.8	7.2	6.5	6.9
29	---	---	---	---	---	---	8.9	8.1	8.6	7.8	6.3	7.0
30	---	---	---	---	---	---	8.7	8.3	8.5	7.5	6.8	7.2
31	---	---	---	---	---	---	---	---	---	7.5	6.4	7.0
MONTH	10.2	8.1	9.2	---	---	---	---	---	---	8.6	5.9	7.5

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.6	6.6	7.2	8.9	7.1	7.9	---	---	---	7.7	5.7	6.8
2	8.2	6.8	7.5	7.7	6.4	7.1	8.0	7.0	7.5	8.6	6.1	7.3
3	8.1	7.2	7.7	7.9	6.3	7.1	8.6	7.2	7.8	8.2	6.4	7.4
4	7.9	7.2	7.5	7.8	6.4	7.2	8.2	7.1	7.7	7.8	6.4	7.1
5	7.8	6.7	7.4	7.5	6.5	7.0	8.7	7.2	7.9	7.4	6.3	6.7
6	7.4	6.3	6.9	7.9	6.5	7.1	8.1	7.1	7.6	9.5	6.0	7.4
7	7.3	6.5	7.0	8.8	6.3	7.2	8.5	7.0	7.7	9.2	7.0	7.9
8	7.2	6.1	6.8	7.6	6.5	7.0	8.3	6.6	7.4	8.2	6.9	7.5
9	7.4	6.2	6.8	10.8	6.7	8.1	8.5	7.0	7.6	6.9	6.3	6.6
10	7.8	6.6	7.3	9.3	6.8	8.0	8.1	6.7	7.3	7.5	5.7	6.6
11	7.8	7.0	7.3	8.9	6.4	7.5	7.8	6.4	6.8	6.7	5.7	6.2
12	7.3	6.7	7.0	8.1	6.2	6.9	7.4	6.3	6.8	7.9	5.7	6.6
13	6.9	5.7	6.4	7.1	6.1	6.5	7.7	6.2	6.8	9.7	5.9	7.3
14	5.9	4.6	5.5	8.1	6.2	6.9	7.4	6.2	6.8	8.5	6.6	7.4
15	6.4	5.4	5.9	9.5	6.6	7.8	7.9	6.5	7.2	7.7	6.7	7.2
16	8.2	6.1	6.8	8.3	6.3	7.3	11.3	6.8	8.2	8.2	7.2	7.6
17	7.7	6.7	7.1	8.0	6.3	7.0	8.9	6.8	7.8	9.3	7.4	8.1
18	9.0	7.1	7.8	7.8	6.2	6.7	8.1	6.5	7.1	9.5	7.9	8.6
19	9.3	7.5	8.4	8.1	6.1	7.1	8.0	6.0	6.9	9.7	8.2	8.8
20	9.1	8.2	8.7	8.1	6.8	7.5	8.0	6.6	7.2	8.5	7.6	8.1
21	9.4	8.4	8.8	8.2	7.2	7.7	13.8	6.7	9.0	9.0	7.9	8.4
22	9.6	7.8	8.7	8.1	7.0	7.5	9.8	7.1	8.4	9.5	7.8	8.7
23	7.9	6.6	7.4	7.7	6.7	7.3	10.3	7.1	8.5	9.0	8.2	8.6
24	8.7	6.7	7.5	7.3	6.1	6.8	8.3	6.8	7.5	8.4	7.2	8.0
25	9.4	5.9	7.8	7.1	5.5	6.3	7.2	6.5	6.9	7.7	7.0	7.3
26	8.6	6.8	7.7	---	---	---	7.3	5.9	6.8	7.8	6.8	7.3
27	10.6	6.2	7.8	---	---	---	8.7	6.4	7.4	7.7	6.8	7.3
28	9.4	7.9	8.5	---	---	---	---	---	---	7.6	6.8	7.1
29	9.9	7.5	8.4	---	---	---	---	---	---	7.5	6.9	7.1
30	10.0	7.4	8.4	---	---	---	---	---	---	7.2	6.5	6.8
31	---	---	---	---	---	---	8.4	6.1	7.1	---	---	---
MONTH	10.6	4.6	7.5	---	---	---	---	---	---	9.7	5.7	7.5

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.5	7.7	9.0	7.8	8.3	8.1	7.6	7.8	11.4	10.9	11.1
2	8.1	7.0	7.4	8.8	6.6	8.3	8.5	7.8	8.1	11.6	11.4	11.5
3	8.2	6.3	7.3	8.8	6.5	8.0	8.4	7.9	8.1	11.8	11.3	11.5
4	9.1	5.9	7.9	8.7	6.6	7.4	9.5	8.2	9.0	12.2	10.7	11.7
5	8.6	4.4	5.9	9.4	6.7	8.1	9.7	9.2	9.4	11.9	10.8	11.5
6	6.3	3.9	4.9	8.5	6.7	7.3	10.0	8.8	9.5	---	---	---
7	9.1	4.3	7.1	8.3	6.9	7.4	10.1	8.7	9.5	12.1	11.6	11.9
8	8.3	4.9	7.5	7.6	6.8	7.0	10.3	9.0	9.8	12.1	10.2	11.6
9	9.0	7.6	8.3	8.7	6.7	7.1	10.2	9.3	9.7	12.0	10.8	11.7
10	9.2	6.9	8.3	8.8	6.7	8.0	10.2	9.3	9.5	11.8	11.2	11.4
11	9.2	6.9	8.2	8.9	8.4	8.6	9.8	8.6	9.4	11.8	10.9	11.3
12	9.9	8.0	8.9	8.9	8.2	8.5	9.9	8.9	9.6	11.8	10.6	11.1
13	9.4	8.2	8.8	9.1	7.7	8.4	10.7	9.6	10.2	11.5	11.0	11.2
14	9.2	5.6	8.2	9.3	7.6	8.4	10.6	9.8	10.3	11.3	10.6	10.9
15	9.5	5.5	7.7	9.5	8.8	9.2	10.4	9.5	9.9	11.3	10.4	10.8
16	9.0	4.6	6.7	9.2	7.2	8.0	10.5	7.8	10.0	11.6	10.3	10.7
17	---	---	---	9.1	7.5	8.6	10.0	8.3	9.4	11.9	10.3	11.1
18	---	---	---	9.3	8.7	9.0	10.2	9.0	9.4	11.6	10.3	11.0
19	9.2	7.9	8.6	9.0	8.8	8.9	10.6	9.0	9.7	11.4	10.1	10.7
20	9.1	7.8	8.6	9.3	8.9	9.1	11.3	10.0	10.7	10.5	9.9	10.2
21	9.2	2.9	7.5	9.4	9.1	9.3	---	---	---	10.2	9.9	10.1
22	9.1	1.8	6.5	9.6	9.2	9.4	10.3	9.9	10.1	10.4	9.8	10.1
23	8.7	4.3	6.8	9.8	9.3	9.6	10.4	9.6	10.0	10.3	9.9	10.1
24	8.2	6.2	7.5	9.8	9.5	9.7	11.1	9.0	10.5	10.3	9.7	10.0
25	8.4	5.9	7.1	9.8	9.4	9.6	11.0	10.6	10.7	10.5	9.6	10.2
26	8.4	6.3	7.6	9.5	9.1	9.4	11.3	10.8	11.0	10.6	9.7	10.2
27	8.1	7.4	7.7	9.4	8.9	9.2	11.5	10.6	11.3	10.7	9.9	10.5
28	8.2	6.9	7.5	9.2	8.6	8.9	11.6	10.5	11.3	10.9	10.5	10.7
29	8.5	7.2	7.9	8.9	8.1	8.6	11.4	10.7	11.0	11.1	10.3	10.8
30	8.6	7.4	7.9	8.6	7.8	8.0	11.5	10.8	11.3	10.8	9.2	10.2
31	8.6	7.7	8.1	---	---	---	11.5	10.8	11.1	10.3	9.8	10.1
MONTH	---	---	---	9.8	6.5	8.5	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.3	9.6	10.0	8.9	8.0	8.5	---	---	---	8.5	6.9	7.8
2	10.3	9.9	10.1	8.7	7.9	8.3	---	---	---	8.0	6.4	7.4
3	10.4	9.4	10.1	8.5	7.4	8.0	---	---	---	8.9	5.3	7.2
4	10.1	9.1	9.8	8.7	7.2	8.2	---	---	---	8.8	5.1	7.2
5	10.2	9.8	10.0	8.7	7.2	8.1	9.3	7.4	8.2	8.9	5.4	8.2
6	10.5	9.8	10.1	8.8	7.8	8.4	10.3	7.1	8.2	8.3	6.6	7.9
7	10.4	9.6	10.0	9.3	8.1	8.9	10.2	6.6	9.3	8.4	7.4	8.0
8	10.5	9.3	9.9	9.3	8.0	8.6	10.2	6.6	8.6	8.7	7.5	8.0
9	10.3	9.0	9.9	9.6	8.1	8.8	9.7	5.4	8.2	8.5	6.0	7.5
10	9.8	9.2	9.6	9.9	8.9	9.6	9.3	5.9	7.1	8.8	6.8	7.5
11	9.8	9.4	9.6	10.1	9.5	9.8	8.8	5.8	7.5	8.4	6.5	7.2
12	9.6	9.4	9.5	10.0	7.2	9.0	9.1	7.0	8.3	8.1	6.1	7.6
13	9.6	9.2	9.5	9.7	7.1	8.9	8.5	4.4	7.7	8.0	7.0	7.5
14	9.8	9.1	9.5	9.3	8.1	9.0	8.2	4.7	7.6	8.2	5.6	7.4
15	9.6	8.6	9.3	9.1	8.0	8.7	8.8	6.1	7.8	7.1	4.8	6.2
16	9.3	8.0	8.7	9.0	8.4	8.8	8.4	5.1	7.7	7.2	4.6	6.0
17	8.5	7.9	8.2	---	---	---	7.9	5.1	7.1	7.7	4.3	6.5
18	8.5	7.8	8.2	---	---	---	8.0	7.1	7.6	7.8	5.4	6.8
19	8.4	8.1	8.3	9.4	9.0	9.1	8.6	6.8	7.6	8.1	5.1	6.8
20	8.9	8.1	8.5	9.4	9.1	9.3	8.8	7.1	8.1	7.3	2.9	5.6
21	8.8	7.7	8.6	---	---	---	8.9	6.4	8.5	7.2	3.6	6.3
22	8.5	7.9	8.2	---	---	---	9.1	7.8	8.6	6.3	3.7	5.8
23	9.0	8.0	8.5	---	---	---	8.8	8.1	8.5	6.2	4.0	5.7
24	9.1	8.1	8.7	9.6	8.8	9.3	8.6	7.9	8.3	7.6	4.1	6.2
25	9.1	8.1	8.7	---	---	---	8.2	7.8	8.0	7.5	3.3	6.4
26	8.5	7.2	8.0	9.7	9.0	9.4	8.7	7.9	8.3	7.2	4.6	6.4
27	8.5	7.3	8.0	9.6	8.9	9.4	8.9	8.1	8.4	7.4	4.9	6.7
28	8.2	7.1	8.0	10.2	9.2	9.8	9.1	6.9	8.5	7.0	6.2	6.8
29	---	---	---	---	---	---	9.0	7.8	8.5	7.3	5.2	6.4
30	---	---	---	---	---	---	8.9	8.0	8.3	7.1	6.3	6.7
31	---	---	---	---	---	---	---	---	---	6.9	5.6	6.3
MONTH	10.5	7.1	9.1	---	---	---	---	---	---	8.9	2.9	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.9	6.0	6.6	8.1	5.2	6.6	8.1	6.9	7.4	7.5	.7	5.4
2	7.2	5.7	6.6	7.1	4.9	6.5	7.9	7.0	7.5	6.7	.7	3.3
3	7.8	5.6	7.2	7.1	3.4	6.1	8.5	6.1	7.2	8.2	2.3	6.2
4	7.6	5.2	7.0	7.4	4.8	6.7	7.4	4.3	6.3	7.5	4.3	6.7
5	7.6	4.2	6.6	7.2	6.3	6.8	8.0	4.4	6.1	8.2	2.7	6.5
6	8.3	4.3	6.4	7.6	1.5	5.7	7.9	4.2	6.4	9.4	3.9	7.1
7	8.5	6.5	7.7	7.6	2.3	6.0	7.2	6.0	6.5	9.0	3.2	6.8
8	9.3	4.5	7.0	7.2	5.2	6.6	8.0	5.1	7.0	8.0	6.0	7.2
9	8.8	6.1	7.7	7.4	4.8	6.4	7.2	2.0	5.7	7.2	5.2	6.4
10	9.4	5.3	7.9	7.2	2.9	5.3	6.8	.9	4.2	6.9	3.4	5.9
11	9.7	4.5	7.6	7.2	2.2	5.4	7.0	2.7	5.0	6.6	4.4	6.0
12	9.8	4.8	8.3	7.6	2.4	5.9	7.2	2.9	5.7	7.9	5.6	6.5
13	9.4	4.4	5.8	7.1	2.8	5.7	7.5	5.2	6.5	8.8	5.7	6.8
14	---	---	---	7.0	5.4	6.1	7.3	5.1	6.3	7.9	6.1	6.9
15	---	---	---	6.9	4.5	5.9	7.9	6.5	7.2	7.4	6.3	6.9
16	---	---	---	6.2	3.4	5.3	8.2	5.3	7.1	8.1	6.9	7.4
17	---	---	---	7.6	2.7	5.2	8.1	1.3	5.6	8.2	6.5	7.4
18	---	---	---	8.5	4.4	7.1	7.1	.8	5.3	9.1	6.4	7.6
19	8.6	5.6	7.6	7.8	5.9	7.0	7.6	1.8	5.8	8.0	3.4	6.0
20	8.0	5.6	7.1	7.8	6.6	7.2	7.0	1.3	6.1	8.0	5.6	6.7
21	8.0	3.0	5.7	7.8	6.1	7.2	7.4	4.8	6.2	8.0	4.9	6.1
22	7.1	2.6	4.8	8.0	3.3	6.8	8.9	2.2	6.9	8.8	2.1	6.1
23	7.2	2.5	5.7	7.3	3.2	5.8	9.4	1.5	5.2	7.8	1.2	5.2
24	8.2	4.3	7.0	7.3	1.1	4.9	8.3	3.3	6.8	7.4	2.0	4.1
25	8.9	3.2	6.6	7.3	3.1	6.3	7.6	6.7	7.1	7.6	4.7	6.5
26	7.9	3.4	6.6	6.8	5.9	6.4	7.8	5.9	7.0	7.7	6.8	7.2
27	7.8	3.8	6.4	6.7	5.7	6.2	7.6	2.3	6.5	7.8	5.8	6.9
28	7.5	4.5	6.1	8.4	6.0	6.9	7.9	2.0	5.1	7.5	5.5	7.0
29	7.5	2.1	5.6	7.8	6.7	7.2	7.1	3.5	5.6	7.4	6.8	7.1
30	6.8	3.0	4.9	7.4	6.4	6.9	6.6	1.0	3.6	7.4	6.7	7.0
31	---	---	---	8.3	6.6	7.3	5.4	.6	3.3	---	---	---
MONTH	---	---	---	8.5	1.1	6.3	9.4	.6	6.1	9.4	.7	6.4

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	94	86	89	92	84	87	80	75	77	83	78	80
2	106	83	91	95	86	89	79	75	77	83	81	82
3	130	94	111	97	86	91	78	75	76	84	79	81
4	129	102	114	97	88	93	80	75	77	84	80	82
5	130	107	117	---	---	---	82	77	80	85	81	83
6	141	105	123	---	---	---	84	79	82	---	---	---
7	129	101	110	---	---	---	85	81	83	87	82	84
8	104	85	93	---	---	---	87	82	85	89	84	86
9	99	83	90	---	---	---	86	84	85	85	83	84
10	102	83	91	---	---	---	87	83	85	85	79	82
11	111	87	96	---	---	---	88	84	86	87	81	84
12	104	91	97	---	---	---	89	84	87	88	83	85
13	105	91	98	---	---	---	90	84	87	83	79	81
14	118	95	105	---	---	---	93	85	88	87	79	82
15	119	99	107	---	---	---	90	86	88	93	83	88
16	109	100	104	---	---	---	93	86	88	93	84	88
17	106	94	100	---	---	---	89	81	85	92	86	89
18	102	90	93	77	69	73	90	79	82	92	87	89
19	103	86	95	73	71	72	91	81	84	90	80	85
20	113	94	102	76	71	73	85	82	83	84	74	80
21	114	98	106	77	74	75	85	80	82	79	73	76
22	113	90	104	77	73	75	85	80	82	80	73	76
23	94	85	89	81	75	76	82	77	80	78	74	76
24	98	81	88	78	75	76	88	80	84	82	73	77
25	93	85	88	78	76	77	85	80	82	83	75	78
26	89	80	83	80	77	78	85	79	82	82	74	78
27	90	81	84	82	76	79	87	82	84	81	74	78
28	92	80	85	81	75	78	85	82	84	84	77	80
29	92	80	87	81	74	78	85	80	83	86	79	82
30	91	84	86	78	74	76	86	81	84	84	76	80
31	91	84	86	---	---	---	83	79	81	82	78	80
MONTH	141	80	97	---	---	---	93	75	83	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	84	78	81	78	71	75	---	---	---	91	83	87
2	84	80	82	77	73	74	---	---	---	94	83	88
3	84	79	81	76	71	74	---	---	---	97	82	90
4	82	79	80	---	---	---	---	---	---	93	82	87
5	82	78	80	---	---	---	99	93	95	91	86	88
6	84	78	81	74	70	73	103	92	97	91	81	86
7	86	80	83	79	71	74	107	96	100	89	80	84
8	88	81	85	82	74	78	124	98	109	96	83	88
9	89	82	86	81	76	78	121	101	109	95	83	89
10	86	78	82	83	76	79	116	78	101	100	84	92
11	83	79	81	89	79	84	96	79	91	99	86	92
12	81	77	79	90	83	87	98	86	91	95	77	88
13	81	77	79	84	74	80	99	80	89	94	78	86
14	84	77	81	85	78	81	99	86	91	94	83	88
15	84	80	82	83	79	81	95	87	90	89	79	85
16	86	82	84	81	75	79	89	79	83	97	67	81
17	83	76	79	---	---	---	83	77	80	92	77	83
18	80	75	77	84	78	81	81	76	79	94	77	85
19	81	76	79	82	76	80	97	74	85	99	76	88
20	85	78	81	81	78	79	97	85	92	93	84	89
21	85	80	83	---	---	---	97	91	94	88	77	84
22	82	75	77	---	---	---	101	89	96	84	71	77
23	82	74	77	---	---	---	100	90	96	80	69	75
24	81	77	79	89	80	84	96	90	93	95	74	83
25	79	75	78	---	---	---	92	84	88	95	88	91
26	81	74	78	84	78	81	91	81	87	92	75	84
27	81	74	77	86	78	82	99	86	91	91	74	85
28	79	74	76	92	81	87	96	85	91	86	76	82
29	---	---	---	---	---	---	94	84	90	94	74	83
30	---	---	---	---	---	---	93	86	89	90	80	85
31	---	---	---	---	---	---	---	---	---	89	75	83
MONTH	89	74	80	---	---	---	---	---	---	100	67	86

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	90	77	84	117	91	103	---	---	---	97	71	85
2	99	81	90	100	83	91	99	85	93	109	77	91
3	99	85	92	100	79	89	108	88	97	104	79	92
4	96	87	91	99	81	91	105	89	97	98	80	89
5	98	84	91	95	81	89	112	90	100	95	78	84
6	93	77	86	101	82	89	105	90	98	120	74	93
7	92	81	87	112	78	91	111	89	100	117	86	98
8	91	77	85	94	82	87	111	86	98	103	86	93
9	95	76	84	142	83	103	113	92	100	86	79	83
10	100	83	91	118	87	102	109	89	98	96	71	83
11	99	88	92	117	81	97	103	83	90	85	72	78
12	96	84	89	105	80	90	98	82	89	100	71	82
13	89	73	82	90	77	83	101	81	89	123	73	91
14	74	58	68	102	77	87	96	80	88	106	82	92
15	79	67	73	123	82	98	102	83	92	92	81	87
16	104	74	85	107	79	92	147	87	106	97	84	89
17	96	82	88	102	79	88	117	87	101	110	86	95
18	113	87	96	99	77	85	106	83	91	115	92	102
19	119	93	106	103	76	89	104	76	88	115	97	104
20	116	103	110	102	84	93	102	84	93	100	89	96
21	120	106	112	102	89	96	178	85	116	108	93	100
22	124	99	110	102	87	94	127	90	109	116	93	104
23	100	84	93	97	84	92	134	90	110	111	100	104
24	110	84	94	92	77	86	106	87	96	103	88	97
25	121	74	98	92	69	79	92	81	87	94	85	89
26	110	85	97	---	---	---	92	74	84	92	81	86
27	142	79	101	---	---	---	113	80	94	91	79	85
28	126	102	111	---	---	---	---	---	---	88	78	83
29	134	97	111	---	---	---	---	---	---	85	78	81
30	134	96	111	---	---	---	---	---	---	80	72	75
31	---	---	---	---	---	---	107	75	90	---	---	---
MONTH	142	58	94	---	---	---	---	---	---	123	71	90

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	91	84	87	92	81	84	71	66	68	84	80	82
2	92	79	84	89	67	84	73	67	70	85	83	84
3	92	71	82	88	67	80	70	67	68	86	82	84
4	103	67	90	88	68	75	78	68	74	89	79	85
5	98	50	68	96	68	82	79	75	77	87	80	84
6	72	44	56	86	68	74	80	72	77	---	---	---
7	109	49	82	84	70	75	81	71	77	89	86	87
8	94	56	84	77	69	72	84	73	79	89	77	86
9	96	80	88	89	69	72	83	76	78	89	81	87
10	96	72	87	91	69	83	82	75	77	87	83	84
11	96	72	85	91	85	88	80	70	77	89	81	84
12	104	83	92	89	83	86	83	73	79	91	79	84
13	96	86	91	90	78	84	89	80	85	87	83	86
14	96	59	85	92	77	83	93	81	88	87	81	84
15	100	58	81	93	86	90	90	82	85	88	80	83
16	96	49	71	89	71	78	90	67	85	93	79	83
17	---	---	---	88	73	82	87	70	83	96	79	88
18	---	---	---	88	82	85	90	77	81	94	80	87
19	101	86	94	85	82	83	91	77	83	92	79	85
20	99	85	93	86	81	83	95	85	90	89	84	87
21	100	32	81	85	82	84	---	---	---	86	83	84
22	98	19	71	84	81	82	85	81	83	86	81	83
23	94	47	74	84	80	82	83	78	80	84	81	83
24	88	67	80	84	81	82	87	73	83	83	79	81
25	90	63	76	83	81	82	86	83	84	85	79	83
26	90	67	82	83	79	81	86	82	84	84	78	81
27	86	79	82	82	77	80	87	81	85	86	79	83
28	88	74	80	80	75	78	87	80	85	87	83	85
29	90	77	83	79	71	75	85	81	83	89	82	86
30	90	77	83	75	68	71	86	82	85	86	74	83
31	89	80	84	---	---	---	84	80	82	86	83	85
MONTH	---	---	---	96	67	81	---	---	---	---	---	---

0208455155 PAMLICO RIVER AT LIGHT 3--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	87	81	85	82	73	77	---	---	---	89	72	82
2	88	84	86	79	72	76	---	---	---	86	67	78
3	87	78	85	78	67	73	---	---	---	97	57	79
4	84	76	82	80	66	74	---	---	---	98	54	79
5	86	81	84	80	65	74	89	69	78	101	58	92
6	88	82	85	77	70	74	101	67	79	95	74	89
7	87	80	84	80	70	76	103	63	92	92	81	88
8	90	78	83	79	68	73	106	63	86	97	82	87
9	91	76	86	83	69	76	101	54	83	94	66	82
10	88	82	85	86	76	82	99	57	71	97	75	83
11	86	82	84	89	82	85	95	57	78	93	71	80
12	83	81	82	88	62	78	100	75	90	92	68	86
13	84	80	82	87	61	80	94	45	84	91	79	85
14	85	79	82	87	74	84	90	48	83	95	63	85
15	85	74	81	85	73	81	98	66	86	80	54	70
16	83	71	78	85	78	82	92	55	84	81	52	68
17	78	72	75	---	---	---	84	55	76	86	49	72
18	76	71	74	---	---	---	81	72	77	88	60	75
19	75	72	73	88	83	86	86	69	76	93	56	76
20	81	72	75	87	83	85	89	71	81	85	33	64
21	80	70	78	---	---	---	91	66	87	83	40	74
22	78	71	74	---	---	---	95	82	89	75	42	68
23	81	70	75	---	---	---	95	87	91	73	47	67
24	80	71	76	91	81	87	94	87	90	89	47	73
25	81	72	77	---	---	---	89	84	86	90	38	76
26	78	64	73	89	83	86	91	82	86	86	55	76
27	78	66	73	89	82	85	93	83	87	89	59	79
28	76	64	73	94	85	89	95	72	88	84	74	81
29	---	---	---	---	---	---	95	82	89	87	62	76
30	---	---	---	---	---	---	95	82	87	85	74	80
31	---	---	---	---	---	---	---	---	---	82	66	74
MONTH	91	64	80	---	---	---	---	---	---	101	33	78

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	82	70	77	106	68	85	100	85	91	95	9	68
2	86	67	79	91	63	83	98	86	92	84	9	41
3	95	67	86	90	43	77	106	75	89	103	29	77
4	92	62	84	95	60	85	93	54	78	93	54	83
5	94	50	80	93	79	86	101	55	76	104	33	81
6	103	52	78	97	18	72	102	53	81	119	48	88
7	107	81	96	96	29	74	92	77	84	112	40	85
8	116	54	86	88	65	82	104	66	91	100	75	90
9	110	75	95	92	59	79	94	25	74	89	65	79
10	117	65	98	92	36	66	89	11	55	87	43	74
11	123	56	95	94	28	68	92	35	66	83	55	75
12	123	60	104	98	30	76	96	38	75	100	70	81
13	120	55	72	90	36	72	99	67	85	111	70	85
14	---	---	---	88	67	76	95	65	82	98	76	86
15	---	---	---	86	56	73	102	83	92	88	76	83
16	---	---	---	77	43	67	105	69	91	95	81	87
17	---	---	---	96	34	65	105	17	72	95	76	86
18	---	---	---	107	55	89	91	10	68	108	74	88
19	108	70	94	98	74	88	99	24	75	94	40	70
20	101	69	89	98	81	90	89	17	79	94	66	79
21	101	38	71	98	76	89	94	61	79	95	57	73
22	90	33	61	101	41	85	114	28	89	105	25	72
23	91	31	72	92	40	72	121	9	67	94	15	62
24	105	54	88	91	13	61	107	43	86	90	24	49
25	114	40	84	94	39	80	96	84	90	92	56	79
26	101	42	84	87	75	81	98	74	88	91	80	85
27	99	48	81	84	72	78	95	29	82	91	68	81
28	96	58	79	106	74	86	100	26	65	88	64	81
29	98	26	72	97	84	90	90	44	71	85	78	81
30	88	39	64	92	79	85	83	13	46	83	74	77
31	---	---	---	103	80	89	68	8	42	---	---	---
MONTH	---	---	---	107	13	79	121	8	77	119	9	78

02084557 VAN SWAMP NEAR HOKE, NC

LOCATION.--Lat 35°43'49", long 76°44'49", 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 sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair. No flow occurs periodically. Minimum discharge for current water year also occurred Sept. 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	99	2.2	8.3	11	11	19	23	4.5	1.3	31	18	.89
2	93	1.9	7.5	11	10	19	29	3.1	2.5	22	16	.82
3	84	1.7	7.8	10	9.3	18	31	2.5	2.7	23	11	.73
4	71	1.5	8.6	9.6	8.9	24	29	2.2	2.7	19	8.8	.65
5	59	1.3	10	9.4	9.3	36	26	1.9	2.6	14	8.2	.55
6	48	1.2	12	9.2	9.6	36	24	1.6	6.4	11	5.8	.48
7	39	1.1	12	8.8	9.7	35	21	1.3	6.8	9.8	4.7	.42
8	32	1.0	13	8.6	8.8	30	22	1.3	6.2	10	3.9	.40
9	27	.99	17	8.5	8.7	26	28	1.2	5.5	7.9	3.2	.34
10	24	.98	20	8.1	10	23	25	1.0	4.7	6.9	2.6	.27
11	21	1.3	23	7.7	8.7	20	19	.94	3.9	7.5	2.1	.23
12	19	1.5	25	7.3	7.4	18	16	.90	3.2	5.1	2.0	.23
13	20	1.5	25	7.1	7.1	17	14	1.4	2.6	4.3	2.0	.23
14	16	1.5	25	6.8	7.2	16	12	1.3	4.9	4.0	8.0	.19
15	14	1.6	27	6.8	7.1	15	11	1.3	51	3.3	11	.16
16	11	1.6	26	6.9	7.0	16	9.8	1.8	96	2.9	9.4	.11
17	11	1.6	25	6.7	7.8	16	9.3	1.5	103	2.3	7.5	.10
18	10	1.5	24	6.3	11	15	13	1.4	104	2.1	5.9	.10
19	9.1	1.6	22	6.0	11	14	11	1.3	103	5.1	5.1	.10
20	8.2	2.8	21	8.4	11	13	9.5	1.2	100	9.3	4.4	.08
21	7.2	3.1	20	16	10	15	8.4	1.1	96	8.3	3.8	.06
22	6.8	3.8	18	17	11	21	6.9	1.2	90	6.9	3.3	.06
23	6.3	3.7	17	17	23	22	6.1	1.3	86	6.2	2.8	.06
24	5.9	3.2	16	17	26	20	5.3	1.3	82	5.7	2.3	.06
25	5.2	3.9	15	16	23	17	5.0	1.2	74	4.9	2.1	.13
26	4.5	10	15	15	24	16	4.9	1.1	69	4.1	1.7	.12
27	4.0	11	15	14	22	14	4.5	1.1	63	4.4	1.5	.10
28	3.7	10	15	14	20	13	4.2	1.0	56	4.6	1.3	.08
29	3.3	9.2	14	13	---	13	3.7	1.1	47	4.5	1.2	.06
30	2.7	8.6	13	12	---	18	4.9	1.1	39	17	1.1	.06
31	2.4	---	12	12	---	23	---	1.3	---	21	.99	---
TOTAL	767.3	96.87	529.2	327.2	339.6	618	436.5	46.44	1315.0	288.1	161.69	7.87
MEAN	24.8	3.23	17.1	10.6	12.1	19.9	14.6	1.50	43.8	9.29	5.22	.26
MAX	99	11	27	17	26	36	31	4.5	104	31	18	.89
MIN	2.4	.98	7.5	6.0	7.0	13	3.7	.90	1.3	2.1	.99	.06
CFSM	1.08	.14	.74	.46	.53	.87	.63	.07	1.91	.40	.23	.01
IN.	1.24	.16	.86	.53	.55	1.00	.71	.08	2.13	.47	.26	.01

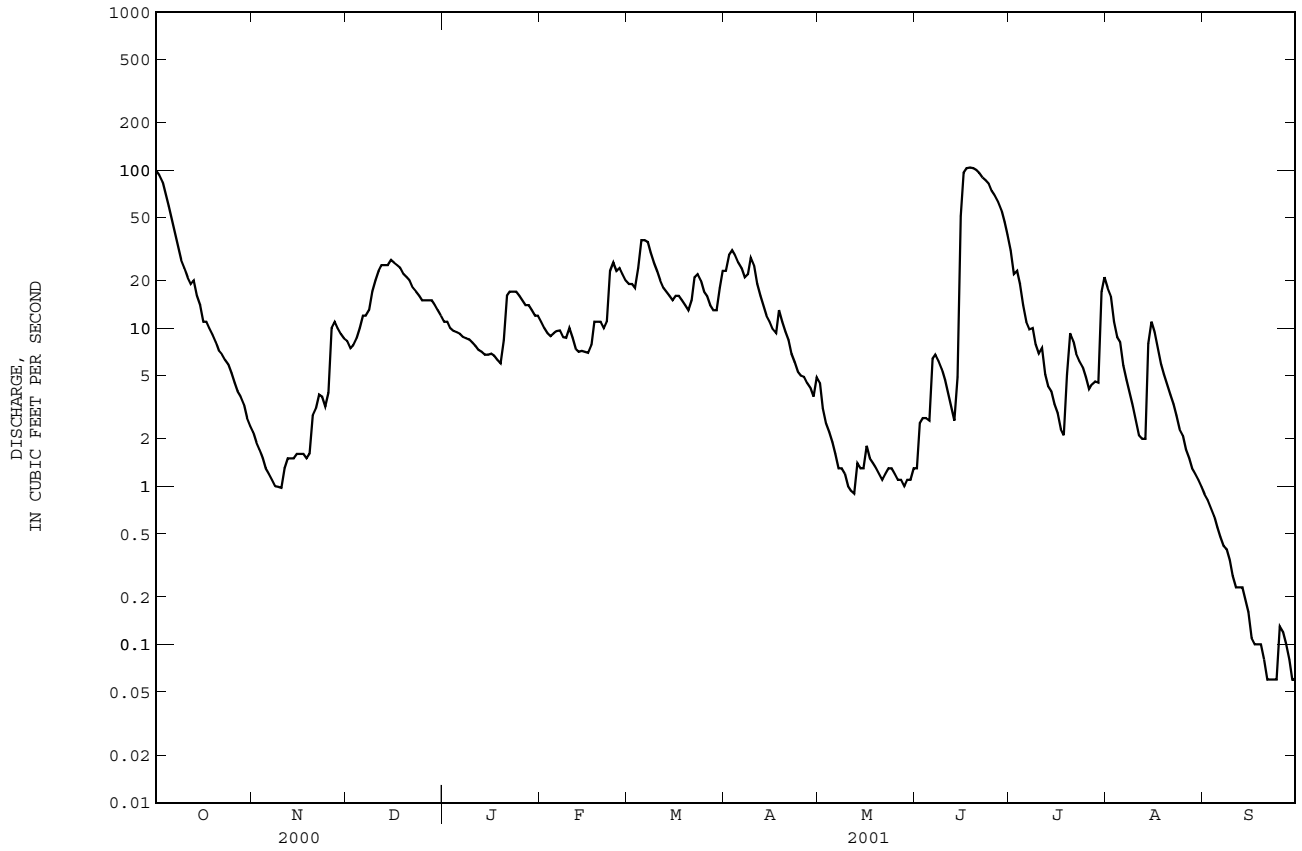
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2001, BY WATER YEAR (WY)

MEAN	20.5	15.6	16.5	43.1	47.7	56.9	40.3	24.6	10.1	5.83	10.8	20.3
MAX	166	121	56.6	124	122	142	101	122	43.8	55.2	64.8	189
(WY)	2000	1978	1990	1978	1998	1983	1983	1978	2001	1989	1986	1999
MIN	.018	.052	.033	.72	10.2	8.78	4.68	.58	.29	.011	.000	.034
(WY)	1979	1979	1989	1989	1989	1992	1985	1985	1985	1997	1997	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1977 - 2001	
ANNUAL TOTAL	8928.10		4933.77			
ANNUAL MEAN	24.4		13.5		26.1	
HIGHEST ANNUAL MEAN					51.7	1978
LOWEST ANNUAL MEAN					7.76	1981
HIGHEST DAILY MEAN	129	Sep 26	104	Jun 18	385	Nov 7 1977
LOWEST DAILY MEAN	.13	Jul 22	.06	Sep 21	.00	Aug 21 1983
ANNUAL SEVEN-DAY MINIMUM	.17	Jul 18	.07	Sep 18	.00	Sep 12 1985
MAXIMUM PEAK FLOW			105	Jun 18	409	Nov 6 1977
MAXIMUM PEAK STAGE			3.48	Jun 18	7.43	Sep 16 1999
INSTANTANEOUS LOW FLOW			.04*	Sep 23	.00*	Oct 1 1978
ANNUAL RUNOFF (CFSM)	1.06		.59		1.14	
ANNUAL RUNOFF (INCHES)	14.44		7.98		15.43	
10 PERCENT EXCEEDS	69		26		73	
50 PERCENT EXCEEDS	14		8.2		8.2	
90 PERCENT EXCEEDS	.97		1.0		.14	

* See REMARKS.

02084557 VAN SWAMP NEAR HOKE, NC--Continued



0208457125 PUNGO RIVER AT CHANNEL LIGHT 8

LOCATION.--Lat 35°30'09", long 76°35'38", Beaufort County, Hydrologic Unit 03020104, on U.S. Coast Guard Channel Light 8.

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): November 1999 to current year.

pH (TOP AND BOTTOM): November 1999 to current year.

WATER TEMPERATURE (TOP AND BOTTOM): November 1999 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): November 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 1999 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm Hg beginning October 1, 2000. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%. Formerly published as, "0208457150, Pungo River at Channel Light 7". On May 25, 2000 the monitor was relocated to Channel Light 8 which is 1.2 miles upstream of Channel Light 7.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	15.7, September 30, 2001	1.7, July 30, 2000
SALINITY (BOTTOM), ppt	18.8, September 6, 2001	4.1, November 30, 1999
pH (TOP), standard units	8.8, April 1, 2000	6.1, July 20, 2000
pH (BOTTOM), standard units	8.7, November 21, 1999, March 28, 29, 2000	6.5, June 2, 3, 2000
WATER TEMPERATURE (TOP), °C	32.2, August 8, 2001	0.6, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	31.0, August 8, 9, 2001	1.1, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	15.2, February 10, 2000	3.1, July 12, 2001
DISSOLVED OXYGEN (BOTTOM), mg/L	14.8, February 6, 11, 12, 2000	<1.0, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	15.7, September 30	2.0, July 2
SALINITY (BOTTOM), ppt	18.8, September 6	7.3, June 29, 30
pH (TOP), standard units	8.7, June 21	7.1, June 7, 17, 18
pH (BOTTOM), standard units	8.5, June 21, 30	6.8, July 14
WATER TEMPERATURE (TOP), °C	32.2, August 8	1.2, January 6
WATER TEMPERATURE (BOTTOM), °C	31.0, August 8, 9	1.5, January 4, 6
DISSOLVED OXYGEN (TOP), mg/L	14.2, January 6	3.1, July 12
DISSOLVED OXYGEN (BOTTOM), mg/L	13.6, January 4	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	144, June 20	38, July 12
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	131, June 21	<10, on several days during the year

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	13.6	13.5	13.5	13.8	13.4	13.6	13.1	12.4	12.9
2	9.7	8.5	9.1	13.6	13.5	13.5	13.9	12.5	13.5	13.3	12.0	12.7
3	8.9	7.1	7.7	13.7	13.5	13.6	13.8	12.6	13.0	13.0	12.2	12.7
4	8.8	7.2	7.7	13.7	13.4	13.6	13.8	12.8	13.2	13.1	12.0	12.6
5	8.6	7.9	8.1	13.9	13.4	13.7	13.5	12.4	12.7	13.2	12.4	12.8
6	8.2	7.8	8.0	13.9	13.5	13.7	14.5	12.1	12.9	13.3	11.6	12.3
7	9.0	7.8	8.4	13.7	13.3	13.6	13.0	12.1	12.6	12.9	12.3	12.6
8	---	---	---	13.8	13.4	13.5	12.8	12.1	12.5	13.0	12.3	12.7
9	---	---	---	13.9	13.4	13.6	13.9	11.7	12.5	13.3	11.5	12.5
10	11.1	10.0	10.4	13.9	13.5	13.8	12.6	11.1	11.9	13.0	12.6	12.8
11	11.0	9.2	10.5	13.9	13.6	13.8	12.9	11.7	12.5	13.0	12.6	12.8
12	11.7	9.5	10.4	14.0	13.8	13.9	12.8	12.0	12.3	13.0	11.8	12.7
13	---	---	---	14.0	13.6	13.9	12.8	12.0	12.3	13.2	11.4	12.2
14	---	---	---	13.9	13.7	13.8	12.7	12.1	12.4	12.6	11.4	12.2
15	---	---	---	13.9	13.7	13.8	13.1	11.7	12.3	12.6	11.8	12.1
16	---	---	---	14.3	13.6	14.0	13.4	11.5	12.0	13.9	11.2	12.1
17	---	---	---	14.3	14.1	14.1	12.9	11.9	12.3	14.1	11.7	12.6
18	---	---	---	14.3	13.9	14.1	12.4	11.8	12.1	14.7	11.7	13.1
19	---	---	---	14.2	13.9	14.1	12.5	11.8	12.1	13.9	11.9	12.6
20	12.5	10.2	11.1	14.1	13.9	14.0	12.3	11.6	12.0	13.5	12.1	13.0
21	12.8	10.7	11.2	14.1	13.8	14.0	12.6	10.8	11.7	13.1	12.2	12.9
22	13.5	11.1	11.9	14.2	13.8	14.1	11.8	10.4	11.2	13.7	12.5	13.2
23	13.5	12.0	12.7	14.3	13.7	14.0	12.0	11.3	11.8	13.3	12.9	13.1
24	13.1	12.2	12.7	14.3	13.8	14.1	11.8	10.9	11.5	13.6	12.4	13.3
25	13.9	12.6	13.0	14.3	13.8	14.1	12.2	11.3	11.7	13.8	12.2	13.1
26	13.3	12.5	12.9	14.1	13.5	13.8	12.3	11.5	11.8	13.5	13.0	13.3
27	13.6	13.0	13.2	13.9	13.5	13.7	12.3	11.5	11.7	13.2	12.5	13.0
28	13.7	13.3	13.5	13.9	12.8	13.5	13.8	11.7	12.3	13.3	13.1	13.3
29	13.6	13.3	13.5	13.9	12.7	13.4	13.2	11.8	12.5	13.2	12.8	13.0
30	13.7	13.5	13.6	13.6	13.3	13.5	13.0	12.0	12.5	13.2	12.6	12.9
31	13.7	13.4	13.6	---	---	---	13.0	12.6	12.9	13.0	12.7	12.8
MONTH	---	---	---	14.3	12.7	13.8	14.5	10.4	12.3	14.7	11.2	12.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	13.3	12.7	13.1	12.6	6.0	11.7	12.2	11.6	11.9	10.7	10.4	10.6
2	13.2	12.4	12.9	12.6	10.0	12.0	12.2	11.6	11.9	10.7	10.4	10.6
3	13.5	12.4	13.1	13.0	6.1	12.0	12.2	11.6	11.8	10.7	10.5	10.6
4	13.5	13.0	13.1	13.3	9.3	12.3	12.0	11.6	11.8	10.9	10.6	10.7
5	13.3	12.6	12.9	13.0	5.6	11.9	12.4	11.5	12.0	10.7	10.5	10.6
6	13.3	11.8	12.9	12.4	11.8	12.0	12.0	11.6	11.8	11.0	10.0	10.8
7	13.3	12.8	12.9	12.9	12.1	12.6	12.1	11.5	11.8	11.0	9.6	10.4
8	13.2	12.8	13.0	13.0	11.8	12.4	12.1	11.6	11.8	11.3	10.2	10.7
9	13.1	12.8	13.0	13.0	12.1	12.5	12.0	11.6	11.7	11.5	10.4	10.9
10	13.3	12.4	12.9	13.0	12.0	12.6	12.2	11.6	12.0	11.5	10.7	11.0
11	13.3	12.5	12.8	13.0	11.3	11.9	12.3	11.7	11.9	11.3	10.9	11.0
12	13.7	12.2	12.8	12.9	11.5	12.2	12.0	11.7	11.8	11.3	10.6	11.0
13	13.6	12.3	12.9	12.8	11.9	12.3	12.1	11.5	11.8	11.4	10.6	11.1
14	13.3	6.6	12.6	12.6	11.9	12.3	12.2	11.4	11.9	11.5	11.0	11.2
15	12.8	6.6	11.9	12.6	11.9	12.3	12.0	11.6	11.8	11.4	11.0	11.2
16	12.8	2.9	11.9	12.4	11.8	12.1	12.1	11.5	11.8	11.8	11.0	11.3
17	13.0	10.7	12.5	12.4	11.8	12.1	12.0	9.7	11.7	11.8	11.0	11.3
18	13.1	7.4	12.4	12.4	11.6	12.0	12.0	9.5	11.5	11.5	11.2	11.3
19	13.0	11.0	12.7	12.6	11.5	12.1	11.5	10.7	11.1	11.8	11.1	11.3
20	12.8	8.8	12.4	13.4	11.1	12.2	11.4	10.7	11.1	11.8	11.2	11.5
21	13.0	4.0	12.0	13.5	12.0	12.6	11.3	10.9	11.1	11.7	11.3	11.6
22	13.1	12.1	12.6	12.4	12.0	12.2	11.0	10.7	10.9	11.5	11.1	11.3
23	13.0	6.0	12.1	12.4	11.7	12.2	11.0	10.9	10.9	11.9	11.1	11.5
24	13.0	6.4	11.4	12.3	11.6	12.0	11.1	10.7	10.9	12.0	11.1	11.7
25	12.8	5.5	11.6	12.3	11.5	11.9	11.0	10.2	10.7	12.0	11.2	11.6
26	13.0	9.5	12.3	12.4	11.6	12.0	11.0	9.9	10.6	11.8	11.3	11.6
27	12.9	10.4	12.5	12.2	11.6	11.9	10.8	10.4	10.6	11.8	11.3	11.5
28	12.9	3.7	11.5	12.3	11.6	12.0	10.8	10.4	10.7	11.5	10.9	11.3
29	---	---	---	12.4	11.7	12.1	10.7	10.0	10.6	11.7	11.1	11.4
30	---	---	---	12.2	11.7	11.9	10.7	10.0	10.5	11.7	10.9	11.3
31	---	---	---	12.1	11.0	11.8	---	---	---	11.7	10.9	11.4
MONTH	13.7	2.9	12.5	13.5	5.6	12.1	12.4	9.5	11.4	12.0	9.6	11.1

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.5	11.1	11.3	7.9	7.4	7.6	11.3	9.7	10.3	10.7	9.9	10.2
2	11.3	10.9	11.1	8.3	2.0	7.7	10.5	9.0	9.9	10.7	9.8	10.1
3	11.3	10.6	11.0	8.5	6.3	8.1	10.0	9.1	9.7	11.1	9.5	10.4
4	11.4	10.9	11.3	8.2	7.7	8.0	9.8	8.8	9.4	10.8	9.7	10.0
5	11.5	10.7	11.1	8.2	7.6	8.0	10.3	9.7	10.0	11.1	9.7	10.0
6	11.3	10.7	11.0	8.6	7.7	8.2	10.2	9.7	10.0	13.0	10.3	11.5
7	11.4	10.3	10.8	8.8	7.8	8.4	10.0	9.5	9.7	11.8	10.6	11.0
8	11.5	10.9	11.2	8.4	7.8	8.2	10.4	9.6	10.0	11.8	11.2	11.3
9	11.5	10.8	11.2	8.6	7.8	8.2	10.5	6.0	9.6	11.8	11.2	11.4
10	11.3	10.8	11.1	8.6	7.9	8.3	10.4	9.9	10.2	11.7	10.9	11.4
11	11.3	10.8	11.1	8.4	7.6	8.0	10.3	10.0	10.1	12.1	11.2	11.6
12	11.3	10.7	11.0	9.2	7.7	8.5	10.3	9.8	10.0	12.1	11.3	11.7
13	11.3	10.6	11.0	8.9	7.8	8.2	10.0	9.6	9.8	12.0	11.4	11.7
14	11.1	10.6	10.8	9.3	8.0	8.6	10.0	9.4	9.7	14.1	11.6	12.1
15	10.8	7.8	10.3	9.4	8.2	8.6	9.7	9.0	9.4	13.9	12.4	13.1
16	10.1	5.4	8.0	8.7	8.1	8.5	9.6	8.6	9.3	14.2	13.0	13.5
17	9.6	5.8	8.2	9.7	8.3	8.8	9.7	8.6	9.1	14.9	13.5	14.3
18	10.0	5.7	8.4	9.6	8.8	9.2	9.7	8.9	9.2	14.2	13.3	13.8
19	9.5	7.9	8.9	9.6	8.5	9.0	10.0	8.6	9.1	14.2	13.4	13.7
20	8.5	7.4	8.2	10.7	8.6	9.3	9.7	8.7	9.3	14.1	13.2	13.7
21	8.5	4.6	7.9	10.1	8.7	9.4	9.8	8.7	9.4	13.9	13.5	13.7
22	8.5	7.0	8.1	10.7	8.9	9.8	9.6	8.6	9.2	14.0	13.1	13.5
23	8.9	7.2	8.3	10.2	9.6	10.0	9.3	8.3	8.7	14.3	13.1	13.7
24	8.0	7.0	7.5	10.5	9.8	10.0	9.2	8.2	8.7	14.6	13.7	14.1
25	8.3	7.6	8.0	10.6	9.8	10.2	9.5	8.3	9.0	14.3	13.7	14.1
26	8.2	7.3	7.8	10.7	10.1	10.3	10.5	9.1	9.7	14.4	13.8	14.1
27	8.1	7.6	7.7	11.3	10.1	10.6	10.2	8.8	9.4	14.3	13.9	14.0
28	8.0	6.7	7.3	11.4	10.0	11.0	10.4	9.3	9.8	15.0	14.0	14.4
29	7.6	6.8	7.1	10.7	10.0	10.4	10.4	9.3	9.8	15.2	14.2	14.8
30	7.6	6.9	7.5	10.7	9.8	10.3	10.3	9.6	10.0	15.7	15.0	15.3
31	---	---	---	10.7	9.8	10.2	10.4	9.8	10.0	---	---	---
MONTH	11.5	4.6	9.5	11.4	2.0	9.0	11.3	6.0	9.6	15.7	9.5	12.6

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	13.7	13.6	13.7	13.9	13.7	13.8	13.9	12.8	13.3
2	11.9	9.2	10.4	13.7	13.6	13.7	14.0	12.9	13.7	14.3	13.0	13.6
3	11.7	9.9	11.1	13.9	13.6	13.7	13.9	13.0	13.3	14.1	12.8	13.4
4	12.4	8.8	11.5	14.0	13.7	13.8	14.1	13.1	13.5	13.7	12.6	13.1
5	12.6	8.7	10.9	13.9	13.7	13.8	14.7	13.0	13.9	13.9	12.8	13.1
6	10.1	8.3	8.8	14.4	13.6	13.9	14.8	13.3	14.1	13.8	12.3	13.3
7	14.5	8.5	12.0	14.5	13.5	14.0	14.7	12.8	13.7	13.8	12.6	13.1
8	---	---	---	14.6	13.5	14.1	14.7	12.7	13.5	14.4	12.7	13.3
9	---	---	---	14.5	13.5	13.9	15.1	12.8	14.0	14.4	12.6	13.4
10	12.2	10.5	11.2	13.9	13.7	13.9	15.5	13.3	14.2	13.0	12.6	12.9
11	12.5	10.6	11.5	14.1	13.8	13.9	15.2	12.8	13.7	13.5	12.6	13.1
12	12.9	11.4	12.3	14.1	14.0	14.0	15.1	12.2	13.3	14.0	13.0	13.5
13	---	---	---	14.2	13.9	14.0	15.1	12.6	13.8	14.4	12.6	13.6
14	---	---	---	14.1	13.9	14.0	13.7	12.4	12.8	14.1	13.1	13.7
15	---	---	---	14.1	13.9	13.9	14.1	12.6	13.3	14.5	14.0	14.2
16	---	---	---	14.3	13.9	14.0	14.2	12.2	13.5	14.7	12.1	13.9
17	---	---	---	14.2	13.8	14.1	13.1	12.2	12.6	15.1	12.9	14.6
18	---	---	---	14.3	13.8	14.1	13.3	12.3	12.7	15.1	13.3	14.8
19	---	---	---	14.2	13.7	14.0	13.5	12.1	12.8	14.9	12.2	13.6
20	15.3	15.1	15.2	14.1	13.7	14.0	13.0	11.8	12.5	14.5	12.2	13.5
21	15.3	14.1	15.1	14.1	13.7	13.9	13.5	11.7	12.9	13.6	12.7	13.1
22	15.3	14.7	15.2	14.1	13.8	14.0	13.1	11.2	11.9	14.2	13.0	13.6
23	15.1	12.6	14.4	14.2	13.1	13.9	12.4	11.6	12.0	14.2	12.9	13.2
24	14.5	13.1	14.0	14.2	13.8	14.1	12.6	11.0	12.3	13.7	13.1	13.5
25	14.1	13.1	13.9	14.3	13.7	14.1	13.4	11.4	11.8	14.2	13.2	13.6
26	14.0	13.0	13.7	14.1	13.6	13.8	12.6	11.8	12.1	13.5	13.0	13.3
27	14.0	13.1	13.5	14.0	13.5	13.7	13.4	11.8	12.8	13.3	12.9	13.0
28	14.2	13.6	13.8	13.9	13.3	13.7	14.7	12.5	13.6	13.8	12.9	13.3
29	13.9	13.5	13.7	14.1	13.6	13.9	13.9	11.8	13.2	14.2	12.6	13.4
30	13.8	13.7	13.8	13.9	13.5	13.7	14.5	12.5	13.6	13.1	12.1	12.8
31	13.8	13.5	13.7	---	---	---	13.8	12.6	12.9	13.3	12.0	12.9
MONTH	---	---	---	14.6	13.1	13.9	15.5	11.0	13.2	15.1	12.0	13.4

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	14.0	12.8	13.5	13.0	12.3	12.7	12.6	11.7	12.2	10.9	10.7	10.8
2	14.2	12.6	13.8	13.0	12.4	12.7	12.6	11.7	12.1	10.9	10.6	10.8
3	14.3	12.2	13.3	13.6	12.3	13.2	12.3	11.7	12.0	10.9	10.6	10.7
4	13.5	12.8	13.2	13.7	12.2	13.2	12.3	11.7	12.1	11.0	10.7	10.8
5	13.6	12.5	13.1	---	---	---	12.6	12.1	12.3	11.0	10.5	10.8
6	13.7	11.9	13.1	---	---	---	12.3	11.7	12.0	11.1	10.3	10.9
7	13.9	12.4	13.2	13.7	12.2	12.9	12.4	11.6	12.0	11.3	10.0	10.7
8	---	---	---	14.0	12.3	13.1	12.2	11.7	12.0	11.5	10.4	11.1
9	---	---	---	13.4	11.5	12.7	12.1	11.6	11.8	---	---	---
10	13.5	11.8	12.9	13.3	12.6	12.9	12.2	11.7	12.1	---	---	---
11	13.4	12.3	13.0	13.0	11.8	12.6	12.3	11.9	12.1	---	---	---
12	13.7	12.8	13.4	13.1	12.1	12.6	12.0	11.8	11.8	---	---	---
13	14.0	12.0	13.4	12.8	11.8	12.3	12.1	11.5	11.8	11.3	10.5	11.0
14	13.9	12.5	13.3	12.6	11.8	12.3	12.2	11.8	12.0	11.3	10.9	11.2
15	13.5	12.5	12.9	12.6	11.9	12.4	12.0	11.6	11.8	---	---	---
16	13.7	12.6	13.0	---	---	---	12.1	11.5	11.8	11.7	10.9	11.4
17	13.7	12.0	12.8	13.0	11.9	12.5	12.0	11.6	11.8	11.9	11.1	11.5
18	13.5	12.6	13.0	12.4	11.7	12.1	11.9	10.6	11.6	11.9	11.2	11.6
19	13.5	12.9	13.1	12.6	11.8	12.3	11.5	10.9	11.4	12.3	11.1	11.6
20	13.0	12.6	12.8	13.3	10.6	12.5	11.3	10.9	11.3	12.1	11.3	11.7
21	13.6	12.4	13.0	13.3	12.0	12.6	11.3	11.0	11.2	12.2	11.2	11.5
22	13.4	12.3	12.8	12.3	11.9	12.1	11.1	11.0	11.0	11.4	11.0	11.1
23	13.3	12.6	12.8	12.4	11.9	12.2	11.1	11.0	11.1	12.0	11.0	11.5
24	13.7	12.7	13.2	12.5	11.6	12.0	11.2	10.7	11.0	12.0	11.5	11.8
25	13.0	12.4	12.7	12.3	11.6	12.0	11.1	10.4	10.8	---	---	---
26	13.4	12.4	12.9	12.3	11.6	12.0	11.1	10.5	10.8	---	---	---
27	13.3	12.4	12.9	12.6	11.7	12.2	10.9	10.7	10.8	---	---	---
28	13.1	12.2	12.9	12.8	12.1	12.3	11.0	10.8	10.9	11.5	10.8	11.3
29	---	---	---	12.7	11.8	12.3	10.9	10.8	10.9	11.7	11.2	11.5
30	---	---	---	12.8	11.9	12.2	11.0	10.7	10.9	11.8	10.9	11.5
31	---	---	---	12.5	12.1	12.3	---	---	---	11.8	10.9	11.5
MONTH	---	---	---	---	---	---	12.6	10.4	11.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.7	11.2	11.4	7.9	7.4	7.6	14.8	10.2	12.1	13.9	9.8	11.5
2	11.5	11.1	11.2	8.7	7.5	8.0	14.3	10.5	12.1	17.2	13.4	15.2
3	11.6	11.0	11.1	9.2	7.8	8.4	12.5	9.7	11.4	17.1	12.8	14.9
4	11.6	11.2	11.4	8.5	7.7	8.0	11.1	9.5	10.4	16.6	11.5	14.3
5	11.5	10.8	11.3	8.3	7.7	8.0	10.6	9.8	10.2	18.6	12.9	15.5
6	11.5	10.9	11.2	8.7	7.8	8.3	10.9	9.9	10.3	18.8	15.4	17.8
7	11.6	10.6	11.1	8.8	8.3	8.6	11.1	9.6	10.2	18.4	13.5	16.6
8	11.5	11.0	11.3	8.8	8.0	8.3	10.6	9.5	10.1	16.1	11.1	13.2
9	11.7	11.0	11.4	9.0	8.1	8.7	11.0	9.8	10.2	12.7	11.2	11.7
10	11.9	10.9	11.3	9.1	8.3	8.8	10.6	10.0	10.3	12.4	11.4	11.7
11	11.3	10.9	11.1	9.2	8.1	8.8	10.3	10.0	10.2	14.1	11.1	12.3
12	11.5	10.7	11.1	11.1	8.6	9.2	10.3	9.8	10.0	14.5	12.0	13.2
13	11.4	10.7	11.1	12.1	8.2	10.2	10.1	9.7	9.8	15.5	11.8	13.8
14	11.3	10.7	11.0	13.3	9.6	11.3	10.2	9.6	9.9	15.9	11.8	14.0
15	11.1	10.3	10.7	14.1	8.6	11.5	10.4	9.5	9.9	14.3	13.1	13.6
16	10.7	8.6	10.0	14.1	8.6	11.9	12.3	9.5	10.7	15.0	13.2	14.0
17	10.5	8.4	9.7	12.9	8.6	10.1	10.7	9.2	9.7	15.6	14.5	15.1
18	10.9	8.2	10.3	11.5	9.2	9.6	10.4	9.0	9.6	16.5	14.6	15.8
19	11.1	8.6	10.3	13.2	9.1	10.6	11.3	8.8	10.0	17.1	13.5	15.4
20	11.1	8.0	9.1	15.2	11.1	13.3	10.4	9.1	9.5	17.1	13.7	14.4
21	9.6	8.2	8.6	16.5	13.0	15.5	10.2	9.0	9.8	15.1	13.7	14.1
22	8.8	8.2	8.5	16.5	10.3	14.6	11.7	9.3	10.3	16.2	13.7	14.7
23	8.8	8.0	8.5	15.7	9.9	10.9	11.7	9.0	10.5	16.1	13.5	15.0
24	9.8	8.0	9.1	11.2	9.9	10.2	11.9	9.1	10.7	15.3	13.7	14.3
25	9.9	7.8	9.3	10.7	10.0	10.3	14.2	10.3	12.7	14.9	14.1	14.4
26	9.7	7.6	8.6	10.7	10.2	10.3	15.5	10.4	13.1	15.0	13.9	14.4
27	9.2	7.7	8.4	12.0	10.1	10.9	15.7	9.8	12.3	15.5	13.9	14.6
28	9.2	7.6	8.4	11.8	10.9	11.4	12.4	9.7	10.4	16.5	14.1	15.0
29	9.5	7.3	8.8	12.0	10.0	10.9	14.5	9.5	11.0	17.1	14.5	15.4
30	8.9	7.3	7.8	11.9	10.0	10.9	14.3	9.9	11.9	17.7	15.1	15.4
31	---	---	---	12.8	10.4	11.3	13.9	9.8	10.2	---	---	---
MONTH	11.9	7.3	10.1	16.5	7.4	10.2	15.7	8.8	10.6	18.8	9.8	14.4

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.5	7.4	7.5	7.8	7.7	7.8	8.3	8.1	8.2
2	7.8	7.5	7.6	7.6	7.4	7.5	7.8	7.7	7.8	8.3	8.1	8.1
3	8.1	7.5	7.7	7.6	7.4	7.5	7.8	7.7	7.7	8.2	8.1	8.2
4	8.5	7.5	7.9	7.6	7.5	7.5	7.8	7.7	7.7	8.3	8.2	8.2
5	8.6	8.1	8.3	7.6	7.4	7.5	7.8	7.6	7.7	8.3	8.2	8.2
6	8.6	7.7	8.3	7.6	7.4	7.5	7.8	7.6	7.7	8.3	8.2	8.2
7	8.5	7.7	8.0	7.6	7.5	7.5	7.8	7.7	7.8	8.3	8.2	8.3
8	---	---	---	7.7	7.5	7.6	7.9	7.8	7.8	8.3	8.2	8.3
9	---	---	---	7.6	7.5	7.6	7.9	7.7	7.8	8.2	8.1	8.1
10	7.9	7.6	7.7	7.6	7.4	7.5	7.8	7.5	7.7	8.2	8.1	8.1
11	8.3	7.6	7.8	7.6	7.4	7.5	7.8	7.6	7.7	8.2	8.1	8.2
12	8.1	7.4	7.8	7.5	7.5	7.5	7.8	7.7	7.7	8.2	8.1	8.2
13	---	---	---	7.6	7.4	7.5	7.9	7.7	7.8	8.1	7.9	8.0
14	---	---	---	7.5	7.4	7.5	7.8	7.7	7.8	8.1	7.9	8.1
15	---	---	---	7.5	7.4	7.5	7.8	7.6	7.7	8.1	8.0	8.1
16	---	---	---	7.8	7.4	7.6	8.0	7.6	7.7	8.2	8.0	8.1
17	---	---	---	7.7	7.7	7.7	7.8	7.4	7.6	8.2	8.0	8.1
18	---	---	---	7.7	7.7	7.7	8.2	7.5	7.8	8.2	8.0	8.1
19	---	---	---	7.7	7.7	7.7	8.0	7.7	7.8	8.2	8.0	8.2
20	7.9	7.4	7.6	7.7	7.6	7.7	7.9	7.6	7.8	8.1	8.0	8.1
21	7.8	7.3	7.7	7.7	7.7	7.7	8.3	7.7	7.9	8.1	7.9	8.0
22	7.8	7.2	7.5	7.7	7.7	7.7	8.3	8.1	8.2	8.1	7.9	8.1
23	7.5	7.2	7.3	7.7	7.7	7.7	8.2	8.0	8.1	8.1	8.0	8.1
24	7.5	7.3	7.4	7.7	7.7	7.7	8.3	8.1	8.2	8.2	8.0	8.1
25	7.6	7.3	7.4	7.7	7.7	7.7	8.3	8.1	8.2	8.1	8.0	8.1
26	7.6	7.3	7.4	7.7	7.6	7.6	8.3	8.1	8.2	8.2	8.0	8.1
27	7.5	7.4	7.4	7.7	7.6	7.6	8.4	8.1	8.3	8.1	8.1	8.1
28	7.5	7.4	7.5	7.7	7.6	7.6	8.4	7.9	8.2	8.2	8.1	8.1
29	7.5	7.4	7.5	7.8	7.6	7.7	8.2	8.0	8.1	8.3	8.2	8.2
30	7.6	7.4	7.5	7.8	7.7	7.8	8.3	8.1	8.2	8.3	8.2	8.2
31	7.6	7.4	7.5	---	---	---	8.2	8.1	8.1	8.2	8.2	8.2
MONTH	---	---	---	7.8	7.4	7.6	8.4	7.4	7.9	8.3	7.9	8.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.1	8.2	7.7	7.6	7.6	7.8	7.7	7.8	7.8	7.6	7.7
2	8.3	8.2	8.3	7.7	7.6	7.7	7.8	7.7	7.8	7.7	7.6	7.6
3	8.3	8.1	8.2	7.7	7.6	7.7	7.9	7.7	7.8	7.6	7.5	7.6
4	8.2	8.2	8.2	7.7	7.6	7.6	7.8	7.7	7.8	7.7	7.5	7.5
5	8.3	8.2	8.2	7.7	7.6	7.6	7.9	7.7	7.8	7.7	7.4	7.5
6	8.4	8.2	8.3	7.7	7.6	7.7	7.8	7.7	7.8	7.6	7.4	7.5
7	8.3	8.3	8.3	7.9	7.7	7.8	7.8	7.7	7.8	7.6	7.4	7.5
8	8.4	8.3	8.3	8.0	7.8	7.9	7.8	7.6	7.7	7.8	7.5	7.6
9	8.4	8.3	8.4	8.0	7.9	7.9	7.8	7.6	7.7	---	---	---
10	8.3	8.2	8.3	8.1	7.9	8.0	7.8	7.5	7.7	---	---	---
11	8.2	8.1	8.2	8.2	7.9	8.1	7.8	7.5	7.6	---	---	---
12	8.2	8.0	8.1	8.1	8.0	8.1	7.8	7.6	7.7	---	---	---
13	8.2	8.0	8.1	8.1	7.9	8.0	7.7	7.6	7.7	---	---	---
14	8.1	8.0	8.0	8.1	7.9	8.0	7.7	7.5	7.6	7.7	7.5	7.6
15	8.0	7.9	8.0	8.1	7.9	8.0	7.6	7.5	7.6	7.6	7.4	7.5
16	8.0	7.9	7.9	8.0	7.8	7.9	7.6	7.5	7.6	7.7	7.3	7.5
17	7.9	7.8	7.8	8.1	7.9	8.0	7.6	7.5	7.6	7.7	7.5	7.5
18	7.8	7.7	7.8	8.1	7.9	8.0	7.7	7.6	7.6	7.8	7.4	7.6
19	7.8	7.7	7.8	8.0	7.9	8.0	7.8	7.6	7.7	7.8	7.5	7.7
20	7.8	7.7	7.7	8.0	7.8	7.9	7.7	7.7	7.7	7.9	7.5	7.7
21	7.7	7.6	7.6	7.9	7.8	7.9	7.8	7.6	7.7	7.7	7.6	7.7
22	7.7	7.6	7.6	7.9	7.8	7.9	7.7	7.6	7.7	7.7	7.5	7.6
23	7.7	7.6	7.6	8.0	7.8	7.9	7.7	7.6	7.6	7.7	7.4	7.6
24	7.7	7.6	7.6	8.0	7.9	7.9	7.7	7.6	7.6	7.7	7.4	7.6
25	7.7	7.6	7.6	7.9	7.8	7.9	7.7	7.5	7.6	7.8	7.4	7.5
26	7.7	7.6	7.6	7.9	7.8	7.8	7.8	7.6	7.7	7.6	7.5	7.5
27	7.7	7.6	7.7	7.9	7.8	7.9	7.9	7.6	7.8	7.6	7.5	7.6
28	7.7	7.6	7.6	7.9	7.9	7.9	7.8	7.7	7.8	7.6	7.4	7.5
29	---	---	---	7.9	7.8	7.9	7.8	7.7	7.7	7.6	7.4	7.5
30	---	---	---	7.9	7.8	7.9	7.8	7.7	7.8	7.7	7.4	7.6
31	---	---	---	8.1	7.7	7.9	---	---	---	7.7	7.4	7.6
MONTH	8.4	7.6	8.0	8.2	7.6	7.9	7.9	7.5	7.7	---	---	---

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.4	7.5	8.3	7.5	8.0	8.3	7.6	8.0	8.2	7.8	8.0
2	7.6	7.3	7.4	8.2	7.6	7.9	8.5	7.9	8.2	8.3	7.5	7.9
3	7.6	7.3	7.5	8.3	7.5	7.9	8.6	8.0	8.3	8.3	7.6	8.0
4	7.6	7.3	7.4	8.2	7.6	7.8	8.5	8.3	8.4	8.2	7.7	7.9
5	7.6	7.3	7.4	8.2	7.6	7.9	8.5	8.1	8.3	8.2	7.8	8.0
6	7.5	7.2	7.3	8.0	7.7	7.9	8.4	7.9	8.1	8.2	7.5	7.8
7	7.9	7.1	7.5	8.0	7.7	7.8	8.4	8.0	8.2	8.3	7.8	8.0
8	7.7	7.4	7.6	7.8	7.6	7.7	8.4	8.1	8.2	8.3	7.8	8.1
9	7.8	7.5	7.6	8.2	7.5	7.7	8.6	8.0	8.2	8.2	8.0	8.1
10	7.9	7.4	7.7	8.5	7.4	8.0	8.3	8.0	8.2	8.3	8.0	8.1
11	7.9	7.4	7.7	8.2	7.3	7.8	8.2	7.9	8.1	8.2	7.9	8.1
12	7.9	7.4	7.6	8.3	7.4	7.8	8.2	7.7	7.9	8.2	7.9	8.0
13	7.9	7.4	7.7	7.8	7.4	7.5	8.4	7.8	8.0	8.3	7.8	8.0
14	7.8	7.6	7.6	7.9	7.4	7.6	8.2	7.8	8.0	8.1	7.3	7.8
15	7.7	7.5	7.6	8.2	7.6	7.9	8.3	7.8	8.0	7.8	7.4	7.6
16	7.6	7.3	7.5	8.4	7.6	7.9	8.5	7.7	8.0	7.8	7.6	7.7
17	8.0	7.1	7.5	8.5	8.1	8.2	8.6	7.5	8.2	7.9	7.7	7.8
18	8.3	7.1	7.6	8.3	7.9	8.1	8.4	7.6	8.1	8.0	7.7	7.8
19	8.4	7.6	8.0	8.0	7.3	7.8	8.4	7.7	8.1	7.9	7.6	7.8
20	8.6	8.0	8.3	7.8	7.2	7.5	8.2	7.7	8.1	7.7	7.6	7.7
21	8.7	8.1	8.4	8.0	7.4	7.7	8.3	7.7	7.9	7.8	7.6	7.7
22	8.6	8.1	8.4	8.1	7.5	7.7	8.3	7.8	7.9	7.8	7.7	7.7
23	8.4	8.0	8.2	7.9	7.6	7.8	8.4	7.7	8.0	7.8	7.4	7.7
24	8.2	7.9	8.1	8.0	7.6	7.8	8.2	7.8	8.0	7.7	7.5	7.6
25	8.5	7.8	8.1	8.0	7.6	7.7	8.2	7.5	7.8	7.7	7.5	7.6
26	8.5	7.9	8.2	7.9	7.4	7.7	8.1	7.6	7.9	7.9	7.7	7.8
27	8.3	7.8	8.1	7.8	7.5	7.6	8.4	7.7	8.1	8.0	7.8	7.9
28	8.6	7.6	8.1	7.8	7.4	7.6	8.3	8.0	8.2	8.0	7.7	7.9
29	8.5	7.7	8.1	7.9	7.6	7.8	8.2	7.4	7.9	7.9	7.7	7.8
30	8.6	7.8	8.2	7.9	7.4	7.6	8.4	7.4	8.0	7.9	7.7	7.8
31	---	---	---	8.1	7.6	7.9	8.2	7.9	8.1	---	---	---
MONTH	8.7	7.1	7.8	8.5	7.2	7.8	8.6	7.4	8.1	8.3	7.3	7.9

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.5	7.4	7.5	7.9	7.8	7.8	8.1	7.8	8.0
2	7.5	7.2	7.3	7.5	7.4	7.5	7.9	7.8	7.8	8.0	7.8	7.9
3	7.3	7.1	7.3	7.5	7.4	7.5	7.8	7.7	7.7	8.0	7.8	8.0
4	7.6	7.1	7.2	7.5	7.4	7.5	7.8	7.7	7.7	8.1	7.9	8.0
5	8.1	7.1	7.3	7.5	7.4	7.5	7.8	7.7	7.8	8.1	7.8	8.0
6	8.1	6.9	7.7	7.6	7.3	7.4	7.9	7.7	7.8	8.1	7.9	8.0
7	7.6	6.9	7.1	7.6	7.3	7.4	7.9	7.7	7.8	8.1	7.8	8.0
8	---	---	---	7.6	7.2	7.4	8.0	7.6	7.8	8.1	7.7	8.0
9	---	---	---	7.6	7.1	7.4	7.9	7.5	7.7	8.0	7.7	7.9
10	8.2	7.8	8.0	7.6	7.4	7.5	7.8	7.5	7.7	8.0	7.9	7.9
11	8.4	7.9	8.1	7.5	7.4	7.4	7.8	7.6	7.7	8.0	7.9	7.9
12	8.2	7.9	8.0	7.5	7.4	7.4	7.8	7.5	7.7	8.0	7.8	7.9
13	---	---	---	7.5	7.4	7.4	7.9	7.5	7.7	7.9	7.7	7.8
14	---	---	---	7.5	7.3	7.4	7.9	7.7	7.8	7.9	7.7	7.8
15	---	---	---	7.5	7.4	7.4	7.9	7.6	7.8	7.8	7.7	7.7
16	---	---	---	7.7	7.4	7.5	8.0	7.7	7.8	7.9	7.6	7.7
17	---	---	---	7.7	7.6	7.7	7.9	7.5	7.7	7.9	7.6	7.7
18	---	---	---	7.7	7.6	7.6	7.9	7.6	7.7	8.0	7.6	7.7
19	---	---	---	7.7	7.6	7.6	8.0	7.6	7.8	8.0	7.6	7.8
20	7.1	7.0	7.0	7.8	7.6	7.7	8.0	7.7	7.8	7.9	7.5	7.8
21	7.1	6.9	7.0	7.8	7.7	7.7	8.0	7.8	7.9	7.8	7.7	7.8
22	7.0	6.9	6.9	7.8	7.7	7.7	8.2	7.8	8.0	8.0	7.8	7.9
23	7.4	6.9	7.1	7.8	7.7	7.8	8.1	8.0	8.0	8.0	7.8	7.9
24	7.4	7.1	7.2	7.8	7.7	7.8	8.1	7.9	8.0	8.0	7.8	7.9
25	7.6	7.2	7.3	7.8	7.7	7.7	8.2	7.8	8.1	7.9	7.8	7.9
26	7.5	7.2	7.4	7.7	7.7	7.7	8.1	8.0	8.0	8.0	7.8	7.9
27	7.5	7.4	7.4	7.8	7.6	7.7	8.2	7.9	8.0	8.0	7.9	7.9
28	7.5	7.4	7.5	7.8	7.7	7.8	8.1	7.7	7.9	8.0	7.9	7.9
29	7.5	7.4	7.4	7.9	7.7	7.8	8.0	7.9	7.9	8.1	7.8	8.0
30	7.6	7.4	7.5	7.9	7.8	7.8	8.1	7.8	7.9	8.1	8.0	8.1
31	7.5	7.4	7.5	---	---	---	8.1	7.8	8.0	8.2	8.0	8.1
MONTH	---	---	---	7.9	7.1	7.6	8.2	7.5	7.8	8.2	7.5	7.9

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	8.0	8.1	7.8	7.7	7.7	8.0	7.8	7.9	7.8	7.6	7.7
2	8.2	7.9	8.0	7.8	7.7	7.7	8.0	7.8	7.9	7.7	7.4	7.6
3	8.2	7.9	8.1	7.8	7.7	7.7	8.0	7.8	7.9	7.6	7.4	7.5
4	8.2	8.1	8.1	7.8	7.5	7.6	7.9	7.7	7.8	7.7	7.3	7.5
5	8.2	8.1	8.1	---	---	---	8.0	7.7	7.8	7.7	7.3	7.5
6	8.3	8.1	8.2	7.7	7.6	7.7	7.9	7.8	7.9	7.7	7.2	7.5
7	8.3	8.0	8.2	7.8	7.7	7.7	7.9	7.8	7.8	7.7	7.4	7.6
8	8.3	8.0	8.2	7.8	7.6	7.7	7.9	7.8	7.9	7.8	7.5	7.7
9	8.4	8.0	8.3	7.8	7.6	7.7	7.9	7.6	7.8	7.7	7.5	7.6
10	8.4	8.2	8.3	7.9	7.7	7.8	7.8	7.5	7.6	7.7	7.4	7.5
11	8.2	8.2	8.2	8.0	7.7	7.8	7.8	7.6	7.7	7.7	7.4	7.5
12	8.2	8.1	8.2	8.0	7.7	7.8	7.8	7.7	7.8	7.7	7.4	7.5
13	8.2	8.1	8.1	8.0	7.7	7.9	7.8	7.6	7.7	7.7	7.4	7.5
14	8.1	7.8	8.0	8.0	7.9	8.0	7.7	7.5	7.6	7.7	7.5	7.6
15	8.1	8.0	8.1	8.0	7.8	7.9	7.7	7.6	7.6	7.6	7.4	7.5
16	8.2	8.0	8.1	7.9	7.8	7.9	7.7	7.6	7.6	7.6	7.3	7.5
17	8.0	7.8	8.0	8.1	7.7	7.8	7.7	7.6	7.6	7.7	7.4	7.5
18	8.0	7.9	8.0	8.1	7.8	8.0	7.8	7.6	7.7	7.7	7.3	7.5
19	8.0	8.0	8.0	7.9	7.9	7.9	7.9	7.7	7.8	7.7	7.1	7.5
20	8.0	7.8	7.9	7.9	7.8	7.9	7.8	7.7	7.8	7.8	7.2	7.5
21	7.9	7.8	7.9	7.9	7.7	7.8	7.8	7.7	7.8	7.7	7.2	7.6
22	7.9	7.8	7.8	7.8	7.8	7.8	7.8	7.6	7.8	7.6	7.4	7.5
23	7.9	7.8	7.8	7.9	7.8	7.8	7.8	7.6	7.7	7.6	7.4	7.5
24	7.9	7.8	7.9	8.1	7.8	7.9	7.7	7.6	7.7	7.6	7.4	7.5
25	7.8	7.7	7.8	8.0	7.9	7.9	7.7	7.6	7.6	7.6	7.4	7.5
26	7.8	7.7	7.8	7.9	7.8	7.9	7.8	7.6	7.7	7.6	7.4	7.5
27	7.9	7.8	7.8	7.9	7.8	7.9	7.9	7.7	7.7	7.6	7.4	7.5
28	7.8	7.7	7.7	8.0	7.8	7.9	7.8	7.8	7.8	7.5	7.3	7.5
29	---	---	---	8.0	7.9	8.0	7.8	7.6	7.7	7.5	7.2	7.4
30	---	---	---	8.0	7.8	7.9	7.8	7.6	7.7	7.7	7.2	7.4
31	---	---	---	8.0	7.7	7.8	---	---	---	7.6	7.2	7.4
MONTH	8.4	7.7	8.0	---	---	---	8.0	7.5	7.7	7.8	7.1	7.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	7.2	7.4	8.3	7.5	8.0	8.2	7.1	7.6	8.0	6.9	7.5
2	7.5	7.3	7.4	8.2	7.3	7.8	8.3	7.1	7.8	7.2	7.0	7.0
3	7.5	7.2	7.3	8.1	7.5	7.8	8.4	7.6	8.0	7.7	7.0	7.2
4	7.5	7.3	7.4	8.0	7.5	7.7	8.4	7.8	8.1	7.8	7.1	7.4
5	7.5	7.2	7.3	8.2	7.4	7.8	8.3	7.8	8.2	7.6	7.1	7.2
6	7.4	7.2	7.3	8.0	7.6	7.8	8.3	7.4	8.0	7.4	7.1	7.2
7	7.8	7.1	7.3	7.9	7.5	7.7	8.3	7.3	7.7	7.7	7.2	7.3
8	7.6	7.3	7.5	8.0	7.6	7.7	8.2	7.4	7.9	8.2	7.2	7.7
9	7.8	7.2	7.4	7.9	7.4	7.5	8.3	7.3	7.9	8.1	7.7	8.0
10	7.8	7.0	7.5	8.3	7.3	7.6	8.2	7.9	8.1	8.2	7.6	8.0
11	7.9	7.4	7.6	8.1	7.3	7.6	8.1	7.8	8.0	8.2	7.4	7.8
12	7.8	7.4	7.6	7.9	7.0	7.4	8.1	7.6	7.9	8.1	7.3	7.6
13	7.8	7.3	7.6	7.8	6.9	7.1	8.2	7.7	7.9	8.1	7.2	7.5
14	7.8	7.5	7.6	7.4	6.8	7.1	8.0	7.4	7.7	8.0	7.2	7.5
15	7.6	7.4	7.5	7.9	6.9	7.2	7.8	7.2	7.6	8.0	7.7	7.8
16	7.6	7.3	7.5	7.8	7.0	7.1	8.2	7.0	7.6	8.1	7.8	8.0
17	7.6	7.2	7.4	8.3	7.0	7.7	8.4	7.1	7.9	8.2	8.0	8.0
18	8.2	7.1	7.4	8.2	7.0	7.9	8.1	7.2	7.9	8.2	7.9	8.0
19	8.2	7.1	7.4	7.9	6.9	7.5	8.3	7.2	7.7	8.2	7.7	8.0
20	8.4	6.9	7.7	7.3	6.9	7.0	8.2	7.3	8.0	8.1	7.6	8.0
21	8.5	7.3	8.0	7.1	6.9	7.0	8.0	7.2	7.6	8.1	7.8	8.0
22	8.4	7.4	8.1	7.8	6.9	7.1	8.3	7.0	7.5	8.1	7.3	7.9
23	8.3	7.8	8.1	8.0	6.9	7.6	8.3	7.0	7.5	8.2	7.3	7.8
24	7.9	7.6	7.7	8.0	7.6	7.8	7.9	6.9	7.2	8.1	7.4	7.9
25	8.2	7.4	7.6	7.9	7.5	7.7	7.3	7.0	7.1	8.0	7.7	7.8
26	8.2	7.3	7.7	7.9	7.3	7.6	7.6	7.0	7.2	7.9	7.7	7.8
27	8.2	7.1	7.5	7.9	7.3	7.6	8.2	7.0	7.5	7.9	7.5	7.8
28	8.0	7.1	7.6	7.8	7.4	7.5	8.2	7.2	8.0	7.9	7.3	7.7
29	8.3	7.0	7.4	7.9	7.4	7.7	8.1	6.9	7.5	7.8	7.3	7.7
30	8.5	7.2	8.0	7.8	7.2	7.5	7.9	7.0	7.3	7.8	7.4	7.7
31	---	---	---	7.9	7.3	7.5	8.1	7.0	7.9	---	---	---
MONTH	8.5	6.9	7.6	8.3	6.8	7.5	8.4	6.9	7.7	8.2	6.9	7.7

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.1	15.6	15.9	9.4	8.9	9.2	3.1	2.3	2.5
2	21.9	20.9	21.3	15.7	15.3	15.5	9.2	8.4	8.9	2.8	1.9	2.3
3	23.3	20.8	21.7	15.8	15.1	15.4	8.5	6.5	7.4	2.6	1.6	2.0
4	23.7	21.3	22.2	16.5	15.3	15.7	6.5	5.7	6.2	2.8	1.5	1.9
5	24.3	22.4	23.2	16.0	15.5	15.8	6.0	5.1	5.5	2.4	1.3	2.0
6	24.5	22.7	23.7	16.3	15.2	15.6	6.7	5.1	5.7	2.7	1.2	2.2
7	24.3	22.4	23.2	15.6	15.0	15.5	6.2	5.0	5.5	3.4	2.1	2.7
8	---	---	---	16.6	15.2	15.7	6.7	5.4	6.0	3.5	2.9	3.1
9	---	---	---	16.9	15.8	16.3	6.8	5.6	6.3	3.5	3.0	3.2
10	17.6	16.7	17.1	17.4	16.6	17.1	7.1	6.1	6.3	3.4	2.8	3.1
11	19.2	16.1	17.1	16.7	15.7	16.1	7.2	6.4	6.7	3.7	2.6	3.2
12	18.5	16.1	17.1	15.8	15.0	15.4	7.7	6.8	7.3	4.4	3.5	3.8
13	---	---	---	15.4	14.5	15.0	7.4	6.8	7.2	5.3	4.0	4.6
14	---	---	---	15.1	14.7	15.0	8.7	7.3	8.0	5.8	4.8	5.0
15	---	---	---	14.7	13.9	14.2	9.4	8.4	8.7	6.7	4.9	5.7
16	---	---	---	13.9	13.5	13.7	9.3	8.7	8.9	6.9	5.3	6.3
17	---	---	---	13.6	13.2	13.4	10.7	9.2	9.8	6.8	5.5	6.2
18	---	---	---	13.2	12.2	12.6	10.0	9.0	9.3	7.4	5.5	6.3
19	---	---	---	12.3	11.5	11.9	9.1	8.1	8.7	8.4	6.1	7.5
20	19.8	18.6	19.0	11.5	11.1	11.3	8.7	7.2	8.1	9.7	8.0	8.6
21	19.6	18.2	18.9	11.1	9.7	10.5	7.5	6.7	7.1	9.0	7.6	8.0
22	19.9	18.6	19.2	9.7	8.7	9.1	7.3	6.1	6.8	7.8	6.7	7.5
23	19.0	18.2	18.6	8.9	7.8	8.3	6.8	5.3	5.9	7.2	6.4	6.9
24	18.6	17.7	18.2	8.4	7.4	8.1	5.6	4.7	5.1	7.7	6.0	6.5
25	19.2	17.8	18.3	9.2	7.7	8.3	5.2	4.1	4.7	6.4	5.9	6.3
26	18.7	17.7	18.2	9.4	8.8	9.1	4.2	3.4	3.7	6.3	5.1	5.6
27	18.7	18.1	18.4	9.6	8.9	9.2	4.0	3.1	3.5	5.8	5.2	5.6
28	18.9	18.1	18.5	10.3	9.1	9.4	4.3	3.6	3.8	6.0	5.2	5.5
29	18.5	17.6	18.0	10.2	9.1	9.7	3.8	3.0	3.4	6.8	5.4	6.0
30	17.7	16.8	17.2	9.9	9.3	9.6	3.6	3.0	3.3	7.7	6.3	6.9
31	16.9	15.3	16.4	---	---	---	3.1	2.5	2.8	8.3	7.3	7.9
MONTH	---	---	---	17.4	7.4	12.9	10.7	2.5	6.4	9.7	1.2	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.0	8.2	11.2	10.4	10.9	13.9	13.2	13.5	19.7	17.5	18.6
2	8.4	8.0	8.3	11.3	10.7	10.9	13.6	12.6	13.1	20.8	18.7	19.6
3	8.4	7.3	7.9	11.4	10.9	11.2	13.2	12.8	13.0	21.5	19.5	20.4
4	7.5	7.0	7.3	11.5	10.9	11.2	13.6	12.8	13.1	22.3	20.5	21.3
5	8.0	7.4	7.6	11.5	10.8	11.2	14.1	12.8	13.4	23.7	21.3	22.1
6	8.6	7.4	8.0	10.8	8.6	9.7	14.6	13.1	13.9	22.5	20.2	21.7
7	8.9	7.8	8.2	8.6	8.1	8.4	16.8	14.4	15.1	20.5	17.6	20.0
8	9.4	8.0	8.7	9.5	7.4	8.5	18.1	15.7	16.9	20.8	19.2	20.0
9	10.1	8.4	9.3	9.2	8.5	8.8	21.2	17.3	18.7	21.4	19.3	20.2
10	11.2	9.8	10.5	10.8	8.5	9.0	22.0	18.7	20.1	22.1	19.9	20.7
11	10.4	9.2	9.9	10.5	8.5	9.6	21.3	19.1	19.8	22.8	20.7	21.6
12	9.2	8.0	8.8	10.8	9.3	10.2	21.3	20.0	20.7	23.4	21.5	22.1
13	9.1	8.8	8.9	12.4	10.7	11.6	21.5	20.9	21.2	22.9	22.1	22.5
14	9.8	8.8	9.2	12.8	11.9	12.4	21.4	20.7	21.1	22.9	21.8	22.2
15	10.8	9.6	10.1	12.9	12.4	12.6	21.1	20.5	20.8	22.0	21.5	21.8
16	12.0	10.4	11.2	13.3	12.5	12.9	20.8	19.9	20.3	21.6	20.9	21.2
17	12.1	10.9	11.5	15.3	12.9	13.7	19.9	17.5	18.9	21.0	20.2	20.5
18	11.1	10.0	10.6	14.2	12.8	13.3	17.8	15.9	16.6	21.4	19.9	20.4
19	10.3	9.1	9.9	12.9	11.9	12.6	16.8	14.9	15.8	22.7	20.6	21.5
20	10.8	9.6	10.2	12.2	11.0	11.8	16.3	15.0	15.8	23.8	21.9	22.5
21	12.2	10.6	11.2	12.7	11.7	12.0	17.1	15.8	16.4	23.3	22.5	23.1
22	11.0	9.5	10.2	12.2	11.9	12.0	18.9	16.8	17.7	24.1	23.0	23.4
23	10.3	9.1	9.6	12.9	11.4	12.2	20.0	17.9	18.8	24.0	23.5	23.8
24	10.4	9.2	9.7	13.4	11.8	12.7	20.6	19.1	19.9	25.6	22.8	23.8
25	10.6	9.6	10.0	13.1	11.9	12.4	20.4	17.1	19.3	25.7	23.3	24.0
26	12.5	10.5	11.2	12.1	11.3	11.7	18.4	16.5	17.5	25.0	24.0	24.4
27	12.5	10.9	11.6	11.9	10.7	11.2	18.2	16.3	17.2	24.8	24.1	24.5
28	11.9	10.9	11.4	12.0	10.5	11.1	18.6	17.3	17.8	24.5	23.9	24.2
29	---	---	---	11.6	10.7	11.3	18.4	17.6	18.0	24.0	23.4	23.8
30	---	---	---	13.7	11.6	12.5	19.1	17.0	17.8	24.5	23.3	23.9
31	---	---	---	16.2	13.1	13.7	---	---	---	24.2	23.2	23.6
MONTH	12.5	7.0	9.6	16.2	7.4	11.4	22.0	12.6	17.4	25.7	17.5	22.0

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.1	22.9	23.5	29.5	28.3	28.9	26.7	24.9	25.7	27.3	26.8	27.0
2	24.8	23.6	24.1	29.0	27.9	28.5	27.1	25.2	26.0	27.7	26.3	26.9
3	25.6	24.0	24.7	28.0	26.2	27.4	27.4	25.5	26.4	28.2	26.2	27.0
4	25.4	24.4	25.0	28.0	27.1	27.4	28.5	26.0	27.3	27.1	26.2	26.7
5	27.7	24.6	25.4	28.1	27.1	27.5	29.3	26.8	27.7	28.0	25.7	26.6
6	26.9	25.6	26.2	27.9	27.0	27.6	29.4	27.1	28.0	27.9	25.9	26.7
7	27.2	26.0	26.7	27.5	25.9	27.0	30.6	28.1	29.2	27.9	25.0	26.0
8	27.1	26.4	26.7	27.2	26.1	26.4	32.2	29.1	30.5	26.9	25.5	26.1
9	27.1	25.7	26.4	29.4	26.0	26.7	32.0	29.8	30.7	27.2	26.3	26.7
10	27.5	26.1	26.5	28.6	26.8	27.9	30.9	29.6	30.3	28.1	26.7	27.4
11	27.9	26.2	27.0	29.6	27.2	28.4	30.6	29.8	30.2	27.8	26.9	27.3
12	28.2	26.8	27.5	28.9	27.6	28.1	30.3	29.1	29.7	27.3	26.0	26.7
13	28.9	27.4	27.9	28.1	26.2	26.8	30.6	29.2	29.7	27.3	25.3	26.2
14	28.6	27.0	27.5	27.3	26.0	26.6	29.5	28.5	29.0	26.5	25.2	25.8
15	27.0	26.4	26.6	27.5	26.0	26.7	29.1	28.0	28.4	25.4	22.9	24.2
16	27.0	25.6	26.2	27.9	26.1	26.7	30.0	27.9	28.4	23.4	22.4	22.9
17	26.5	25.8	26.1	28.6	26.8	27.4	30.3	27.9	28.8	24.2	21.8	22.9
18	28.2	25.2	26.4	27.9	26.7	27.3	30.0	28.5	29.0	23.9	22.4	22.9
19	28.3	26.3	27.0	27.4	26.5	26.9	29.4	27.9	28.5	24.1	22.3	23.3
20	28.7	26.9	27.5	27.0	25.9	26.4	28.8	27.6	28.5	23.9	23.3	23.6
21	29.5	26.8	27.9	26.7	25.2	26.0	28.9	27.4	28.0	25.2	23.5	24.1
22	28.8	27.4	28.1	27.4	25.4	26.0	28.8	27.2	28.0	25.9	24.3	24.8
23	28.1	27.4	27.8	27.3	26.4	26.9	29.2	27.4	28.1	26.4	24.0	25.2
24	27.5	26.7	27.2	28.0	26.8	27.4	28.0	27.1	27.6	25.8	25.0	25.4
25	28.2	26.4	27.1	28.6	27.4	27.9	27.6	26.4	27.0	25.7	24.7	25.2
26	28.2	26.7	27.4	28.2	27.6	27.9	26.8	26.1	26.5	24.7	23.3	23.9
27	29.2	27.4	28.0	27.8	26.0	27.1	28.0	25.9	26.9	23.7	22.6	23.1
28	30.8	27.6	28.7	26.6	25.6	26.1	28.4	26.7	27.5	23.2	21.8	22.6
29	30.5	27.8	29.0	26.3	25.7	26.0	27.6	27.0	27.2	22.0	21.0	21.6
30	30.5	28.0	29.2	26.1	25.3	25.7	27.9	26.8	27.2	21.0	19.8	20.4
31	---	---	---	26.2	25.1	25.6	27.7	26.8	27.3	---	---	---
MONTH	30.8	22.9	26.8	29.6	25.1	27.1	32.2	24.9	28.2	28.2	19.8	25.0

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	16.0	15.6	15.8	9.4	9.1	9.2	3.2	2.1	2.5
2	21.6	20.8	21.2	15.7	15.2	15.4	9.2	8.5	8.9	3.3	2.3	2.7
3	21.4	21.1	21.3	15.7	15.0	15.4	8.5	6.5	7.5	3.1	1.8	2.4
4	22.4	21.3	21.5	15.8	15.4	15.6	6.5	5.7	6.2	2.5	1.5	1.9
5	23.4	21.4	21.8	15.9	15.6	15.8	6.7	5.4	6.1	3.0	1.8	2.1
6	24.1	22.1	23.1	15.9	15.3	15.7	6.8	5.6	6.3	3.0	1.5	2.5
7	23.3	21.6	22.2	15.9	15.4	15.7	6.7	5.2	5.9	3.1	2.4	2.6
8	---	---	---	16.0	15.3	15.8	7.1	5.5	6.2	3.2	2.5	2.8
9	---	---	---	16.8	15.9	16.2	7.3	5.8	6.7	3.4	3.0	3.2
10	18.3	16.8	17.3	17.4	16.6	17.0	7.1	6.3	6.6	3.2	2.8	3.0
11	17.4	16.2	16.7	16.6	15.9	16.1	7.1	6.5	6.7	3.5	2.8	3.2
12	17.1	16.6	17.0	15.9	15.1	15.4	7.6	6.7	7.2	3.8	3.2	3.4
13	---	---	---	15.2	14.8	15.0	7.5	6.9	7.3	4.7	3.3	4.0
14	---	---	---	15.2	14.7	15.0	9.1	7.1	7.9	4.7	4.3	4.5
15	---	---	---	14.7	13.9	14.2	9.0	7.9	8.5	4.5	4.3	4.4
16	---	---	---	13.9	13.5	13.7	9.3	8.6	8.7	6.6	4.4	4.9
17	---	---	---	13.6	13.1	13.4	10.6	8.9	9.7	6.1	4.5	4.9
18	---	---	---	13.1	12.2	12.6	9.7	8.9	9.2	6.3	4.8	5.1
19	---	---	---	12.6	11.5	12.0	9.3	8.7	9.1	8.4	5.2	6.7
20	18.5	18.4	18.5	11.5	11.1	11.2	8.7	7.9	8.2	9.2	6.1	8.0
21	18.8	18.4	18.5	11.1	9.7	10.5	8.1	6.7	7.7	8.6	7.6	8.0
22	18.7	18.5	18.6	9.7	8.7	9.1	7.9	6.7	7.3	7.9	7.2	7.7
23	18.8	18.2	18.6	8.7	7.8	8.4	6.8	5.6	6.0	7.6	6.6	7.0
24	18.6	18.1	18.4	8.3	7.9	8.2	6.0	5.1	5.6	6.9	6.2	6.4
25	19.0	17.9	18.2	9.1	7.9	8.3	6.1	4.2	4.8	6.4	5.9	6.2
26	18.5	18.1	18.3	9.3	8.7	9.0	4.7	3.6	3.9	6.1	5.1	5.5
27	18.6	18.1	18.4	9.5	8.9	9.2	4.0	3.4	3.7	5.8	5.2	5.6
28	18.8	18.1	18.5	9.8	9.0	9.4	4.4	3.7	4.1	5.8	5.3	5.5
29	18.5	17.6	18.0	10.0	9.6	9.8	4.1	3.1	3.4	6.4	5.6	5.7
30	17.6	16.8	17.2	9.8	9.3	9.6	3.7	3.0	3.5	7.7	6.1	6.9
31	16.9	15.1	16.4	---	---	---	3.5	2.5	2.8	8.4	7.3	7.8
MONTH	---	---	---	17.4	7.8	12.9	10.6	2.5	6.6	9.2	1.5	4.7

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.5	7.9	8.2	11.2	10.5	10.9	13.5	12.9	13.3	19.6	17.5	18.3
2	8.4	7.9	8.2	11.2	10.8	11.0	13.4	12.5	12.9	20.8	18.6	19.3
3	8.2	7.3	7.8	11.2	10.9	11.1	13.1	12.8	12.9	21.0	19.5	20.1
4	7.7	7.2	7.4	11.5	10.9	11.1	13.2	12.8	13.0	22.1	20.1	21.0
5	8.0	7.4	7.7	---	---	---	13.8	12.9	13.3	23.0	21.3	21.8
6	8.5	7.5	8.0	10.8	8.6	9.7	14.6	13.3	13.8	22.5	20.5	21.7
7	8.6	7.7	8.1	8.7	8.1	8.4	15.6	14.1	14.6	20.6	18.3	20.1
8	9.5	8.0	8.6	9.4	8.1	8.7	17.8	15.2	16.5	20.7	19.6	20.1
9	10.4	8.1	9.3	9.0	8.5	8.7	20.1	17.2	17.8	21.0	19.9	20.2
10	10.9	9.9	10.4	10.0	8.7	8.9	20.7	17.9	19.0	21.6	20.1	20.5
11	10.4	9.4	10.0	10.2	8.9	9.2	20.3	18.9	19.5	22.3	20.7	21.4
12	9.5	8.7	9.0	11.0	9.1	9.8	21.3	20.0	20.6	22.9	21.4	22.0
13	9.0	8.8	8.9	12.4	10.3	11.7	21.4	20.8	21.1	22.8	22.1	22.4
14	9.7	8.8	9.1	12.8	11.9	12.3	21.2	20.7	20.9	22.8	21.8	22.2
15	10.3	9.4	9.9	12.8	12.5	12.7	21.1	20.5	20.7	21.9	21.5	21.7
16	11.8	9.5	10.7	13.3	12.6	12.8	20.8	19.9	20.3	21.6	21.0	21.2
17	12.1	10.1	11.5	14.2	12.8	13.0	19.9	17.4	18.9	21.0	20.3	20.6
18	11.2	10.3	10.7	14.1	12.9	13.3	17.7	15.8	16.5	21.0	20.1	20.5
19	10.5	9.7	10.1	13.0	12.4	12.7	16.4	14.9	15.6	22.4	20.5	21.0
20	10.8	9.7	10.2	12.5	11.6	12.0	16.3	15.1	15.8	23.2	21.6	22.2
21	11.9	10.2	10.8	12.4	11.7	12.0	17.1	15.8	16.4	23.2	21.7	22.9
22	11.0	9.5	10.2	12.2	11.9	12.0	18.6	16.7	17.4	24.1	23.0	23.4
23	9.7	9.1	9.3	12.8	11.5	12.2	19.9	17.8	18.6	25.0	23.7	23.9
24	10.1	9.2	9.6	13.5	12.0	12.7	20.6	19.0	19.8	24.4	23.3	23.6
25	10.6	9.6	10.1	13.4	12.3	12.6	20.4	17.2	19.3	24.9	23.5	24.1
26	11.4	10.5	10.9	12.5	11.4	11.8	18.4	16.6	17.5	24.9	23.9	24.3
27	12.4	10.8	11.4	11.5	10.8	11.1	17.9	16.3	16.9	24.8	24.0	24.4
28	11.8	11.2	11.4	11.4	10.4	11.0	18.3	17.3	17.7	24.5	23.8	24.2
29	---	---	---	11.6	10.9	11.3	18.2	17.6	17.9	24.0	23.6	23.8
30	---	---	---	13.3	11.5	12.3	18.0	17.2	17.6	24.2	23.4	23.7
31	---	---	---	13.6	12.5	12.9	---	---	---	23.8	23.2	23.5
MONTH	12.4	7.2	9.6	---	---	---	21.4	12.5	17.2	25.0	17.5	21.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	24.2	23.0	23.6	29.4	28.3	28.9	26.3	25.3	25.8	27.4	26.8	27.1
2	24.7	23.6	24.1	29.0	27.9	28.5	27.4	25.6	26.3	27.1	26.9	27.0
3	25.2	24.0	24.5	28.3	26.6	27.5	27.1	26.1	26.6	27.2	26.9	26.9
4	25.4	24.5	24.9	28.0	27.1	27.4	27.7	26.1	26.7	27.0	26.7	26.8
5	25.7	24.6	25.0	28.1	27.1	27.5	28.2	26.8	27.4	26.8	26.7	26.8
6	26.5	25.5	25.8	27.8	27.3	27.6	29.1	27.1	27.9	26.8	26.6	26.7
7	27.0	26.0	26.5	27.5	26.5	27.0	30.4	27.7	28.5	26.8	26.2	26.5
8	27.0	26.4	26.6	27.5	26.1	26.5	31.0	28.6	29.6	26.9	25.7	26.4
9	26.7	26.1	26.4	27.5	26.0	26.3	31.0	29.0	30.2	27.2	26.3	26.7
10	27.1	26.1	26.4	28.6	26.3	27.2	30.9	29.5	30.2	28.1	26.8	27.3
11	28.0	26.2	26.8	29.0	27.2	27.8	30.6	29.6	30.0	28.1	26.9	27.3
12	27.8	26.7	27.2	28.4	27.3	27.8	30.2	29.1	29.6	27.4	26.7	27.0
13	28.9	27.2	27.8	28.0	26.7	27.3	30.2	29.1	29.5	26.9	26.3	26.7
14	28.5	26.9	27.5	26.9	26.2	26.5	29.5	28.5	28.9	26.8	25.2	26.3
15	27.0	26.4	26.7	26.6	25.7	26.4	28.6	28.2	28.3	25.5	23.8	24.4
16	26.5	25.8	26.1	26.9	26.3	26.4	28.7	28.3	28.5	23.9	22.5	23.0
17	26.2	25.9	26.1	27.7	26.6	27.1	29.7	27.9	28.6	23.2	22.3	22.8
18	27.9	26.1	26.4	27.7	26.8	27.1	29.3	28.5	28.8	23.1	22.4	22.9
19	27.8	25.9	26.4	27.2	26.6	26.9	29.3	28.1	28.6	24.1	22.6	23.3
20	28.3	26.0	26.9	26.7	26.3	26.5	28.9	28.1	28.5	24.1	23.1	23.7
21	28.5	26.8	27.5	26.4	25.9	26.3	28.2	27.6	27.8	25.0	23.6	23.9
22	28.5	27.2	27.8	26.8	26.0	26.3	28.7	27.3	27.7	24.6	23.7	24.2
23	28.0	27.5	27.8	27.4	26.3	26.8	28.6	27.5	28.0	25.8	23.7	24.5
24	27.8	27.0	27.4	28.0	26.8	27.4	28.0	27.6	27.9	25.8	24.2	25.2
25	27.8	26.9	27.1	28.7	27.5	27.9	28.0	26.8	27.8	25.6	24.8	25.2
26	28.0	26.9	27.3	28.1	27.7	27.9	27.8	26.4	27.1	24.8	23.3	23.9
27	28.7	26.9	27.7	27.8	26.2	27.1	27.4	26.5	26.9	23.7	22.9	23.4
28	28.5	27.3	27.8	26.6	25.6	26.3	27.9	26.7	27.2	23.6	22.0	22.9
29	29.4	27.4	28.0	26.2	25.8	26.1	27.6	27.1	27.3	23.1	21.1	21.9
30	29.9	27.9	28.8	26.2	25.5	25.8	27.4	27.0	27.1	22.4	19.8	20.4
31	---	---	---	25.7	25.4	25.6	27.7	26.8	27.2	---	---	---
MONTH	29.9	23.0	26.6	29.4	25.4	27.0	31.0	25.3	28.1	28.1	19.8	25.0

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	6.9	6.3	6.6	10.2	9.7	9.9	13.2	12.1	12.5
2	8.3	7.2	7.7	7.0	6.3	6.7	10.2	9.5	10.0	13.3	12.3	12.6
3	9.4	7.2	8.3	7.1	6.2	6.7	10.3	9.1	10.0	13.4	12.4	12.9
4	11.1	7.7	8.8	7.2	6.2	6.7	10.5	9.9	10.3	13.7	13.0	13.2
5	11.1	8.4	9.7	7.5	6.2	6.8	11.3	9.9	10.8	13.8	12.8	13.2
6	11.2	7.7	9.4	7.2	6.4	6.8	11.3	9.8	10.9	14.2	12.6	13.1
7	10.3	7.2	8.4	7.3	6.4	6.9	11.6	10.9	11.2	13.7	12.8	13.1
8	---	---	---	7.6	6.5	7.1	11.8	10.9	11.4	14.1	12.9	13.2
9	---	---	---	7.7	6.7	7.3	11.6	10.1	11.0	13.4	12.2	12.7
10	9.1	8.0	8.5	7.7	6.9	7.3	11.1	9.9	10.7	12.9	12.3	12.5
11	10.9	8.0	8.9	7.8	6.9	7.2	11.0	10.1	10.5	13.2	12.3	12.6
12	9.7	7.6	8.8	7.4	7.0	7.2	10.9	10.0	10.6	12.9	12.4	12.6
13	---	---	---	7.7	6.8	7.3	10.8	9.8	10.4	12.7	12.0	12.3
14	---	---	---	7.7	6.9	7.4	10.6	10.0	10.3	12.5	11.9	12.2
15	---	---	---	8.2	7.2	7.6	10.6	9.5	10.0	12.9	12.1	12.4
16	---	---	---	8.1	7.3	7.6	10.9	9.5	10.1	12.8	12.1	12.3
17	---	---	---	7.8	7.2	7.4	10.4	8.4	9.5	12.6	11.2	12.0
18	---	---	---	7.9	7.3	7.5	11.8	8.2	9.8	---	---	---
19	---	---	---	8.0	7.6	7.7	10.8	8.9	10.0	---	---	---
20	9.5	6.8	8.0	8.4	7.8	8.0	10.3	9.1	9.6	---	---	---
21	8.9	6.3	8.1	8.8	8.0	8.4	12.4	9.4	10.5	---	---	---
22	8.5	6.0	7.5	9.2	8.4	8.8	12.9	11.2	12.2	---	---	---
23	7.2	5.7	6.7	10.1	8.9	9.1	11.9	10.9	11.4	---	---	---
24	7.3	6.5	6.8	9.8	9.1	9.3	13.1	11.3	12.0	---	---	---
25	7.7	5.7	6.7	9.5	9.2	9.3	13.2	11.2	12.0	---	---	---
26	6.9	6.1	6.5	9.5	9.1	9.3	12.8	11.5	12.1	---	---	---
27	6.6	6.0	6.3	10.0	9.2	9.3	13.6	11.8	12.8	---	---	---
28	7.2	5.9	6.4	10.1	9.3	9.5	12.9	11.4	12.3	---	---	---
29	6.7	5.8	6.2	10.6	9.4	10.0	12.5	11.6	12.1	---	---	---
30	6.9	6.0	6.4	10.1	9.6	9.9	13.1	12.0	12.5	---	---	---
31	7.5	6.1	6.7	---	---	---	12.9	11.9	12.3	---	---	---
MONTH	---	---	---	10.6	6.2	7.9	13.6	8.2	10.9	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	8.4	6.4	7.7	---	---	---	8.7	7.8	8.4
2	---	---	---	8.2	6.2	7.6	---	---	---	8.5	7.7	8.1
3	---	---	---	8.6	6.4	7.6	---	---	---	8.3	7.8	8.1
4	---	---	---	8.0	7.0	7.5	---	---	---	8.4	7.6	8.0
5	---	---	---	8.1	6.7	7.8	---	---	---	8.3	7.4	7.9
6	---	---	---	9.2	7.8	8.3	---	---	---	8.2	7.3	7.8
7	---	---	---	9.0	8.3	8.6	---	---	---	8.7	7.8	8.2
8	---	---	---	9.6	7.8	9.0	---	---	---	8.8	8.0	8.3
9	---	---	---	9.4	8.8	9.1	---	---	---	---	---	---
10	---	---	---	10.0	8.9	9.3	---	---	---	---	---	---
11	---	---	---	10.3	9.0	9.9	---	---	---	---	---	---
12	---	---	---	10.2	9.2	9.7	---	---	---	---	---	---
13	---	---	---	9.6	8.8	9.2	---	---	---	---	---	---
14	---	---	---	9.4	8.6	9.1	---	---	---	---	---	---
15	9.1	5.7	8.2	9.3	8.4	8.9	---	---	---	---	---	---
16	8.8	6.5	8.1	9.1	8.3	8.7	---	---	---	---	---	---
17	8.3	6.9	7.9	9.6	8.5	9.1	---	---	---	7.5	6.6	7.0
18	8.3	7.3	7.7	9.3	8.7	8.9	---	---	---	8.0	6.8	7.3
19	8.2	6.7	7.8	9.3	8.7	8.9	8.9	7.8	8.3	8.2	7.1	7.6
20	8.1	6.8	7.6	9.3	8.8	9.0	8.7	8.1	8.4	8.2	7.0	7.5
21	7.9	6.5	7.4	9.5	8.8	9.0	8.8	8.2	8.5	7.7	7.1	7.4
22	8.1	7.3	7.7	9.2	8.8	9.1	8.8	8.3	8.5	7.3	6.6	7.0
23	8.7	7.0	7.7	9.6	8.9	9.3	8.6	8.0	8.3	6.9	6.3	6.6
24	8.3	6.7	7.9	9.8	9.2	9.5	8.3	7.8	8.1	7.6	6.1	6.7
25	8.6	7.7	8.1	9.5	8.7	9.2	8.2	7.6	7.8	7.7	6.3	7.0
26	8.2	6.7	7.8	9.3	8.9	9.1	8.6	7.6	8.1	7.7	6.6	7.1
27	8.2	6.2	7.7	---	---	---	8.9	8.0	8.5	7.7	6.9	7.3
28	8.4	7.0	7.8	---	---	---	8.8	8.4	8.5	7.7	7.2	7.4
29	---	---	---	---	---	---	8.7	8.0	8.4	7.4	6.7	7.1
30	---	---	---	---	---	---	8.8	8.2	8.6	8.1	6.9	7.4
31	---	---	---	---	---	---	---	---	---	8.1	6.6	7.1
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	6.6	7.0	8.4	6.3	7.2	8.9	6.0	7.7	7.4	6.1	6.7
2	8.0	6.9	7.3	7.7	5.9	6.8	9.6	7.2	8.3	8.3	4.9	6.6
3	8.2	7.1	7.6	8.2	6.0	6.9	10.9	7.6	9.1	7.9	5.1	6.7
4	7.9	6.9	7.3	7.6	6.1	6.7	10.9	8.8	9.7	7.3	5.2	6.3
5	8.1	6.5	7.1	7.9	6.1	6.9	10.3	7.8	8.9	7.4	5.8	6.5
6	7.5	6.4	7.1	6.8	5.9	6.4	9.5	6.8	7.8	7.6	4.3	5.8
7	7.6	5.8	6.8	6.4	5.2	6.0	8.9	7.0	7.9	8.3	5.5	6.5
8	7.2	6.2	6.7	6.1	5.3	5.7	9.5	7.0	8.1	7.5	5.5	6.7
9	7.9	6.4	7.0	6.8	5.0	5.7	9.4	5.9	7.7	7.3	6.6	6.9
10	8.1	6.3	7.3	7.9	4.3	6.4	7.7	5.8	6.8	7.8	5.9	6.9
11	8.1	6.0	7.2	6.4	4.3	5.3	7.8	6.1	6.7	7.1	6.0	6.4
12	7.5	5.7	6.8	7.4	3.1	5.6	7.6	5.4	6.6	7.0	5.7	6.3
13	7.0	5.6	6.4	6.4	5.1	5.5	9.1	6.4	7.4	8.4	5.3	6.7
14	6.6	6.1	6.4	6.7	5.0	5.8	8.3	6.2	7.1	8.0	4.3	6.5
15	7.1	6.2	6.6	8.0	5.7	6.7	8.5	6.7	7.3	7.2	5.0	6.1
16	7.7	6.7	7.0	8.4	5.5	6.8	10.7	5.9	7.6	7.6	6.4	6.9
17	8.1	6.3	6.9	8.3	6.1	7.2	10.6	5.2	8.2	8.0	6.6	7.2
18	8.9	6.3	7.3	8.2	5.7	7.0	8.7	5.2	7.1	8.2	6.8	7.4
19	10.9	6.8	8.1	7.5	4.9	6.7	8.6	5.2	7.0	---	---	---
20	11.1	8.1	9.1	7.6	4.7	6.3	7.8	6.2	7.1	---	---	---
21	10.6	8.1	9.0	8.4	6.1	7.3	8.3	5.4	6.4	---	---	---
22	9.7	6.9	8.3	9.0	6.4	7.3	8.1	5.9	6.6	---	---	---
23	7.4	6.6	7.0	8.1	6.8	7.5	9.2	5.6	7.2	---	---	---
24	7.3	6.6	7.0	8.2	6.8	7.4	8.0	5.8	6.8	---	---	---
25	8.6	6.7	7.3	7.9	6.6	7.1	7.8	5.3	6.4	---	---	---
26	8.2	7.0	7.5	7.1	6.1	6.6	8.0	6.0	7.0	---	---	---
27	8.2	6.6	7.3	6.6	5.7	6.1	10.3	6.6	8.2	---	---	---
28	9.5	6.1	7.7	7.1	5.3	6.3	8.7	7.1	7.9	7.6	5.7	6.7
29	8.7	6.3	7.5	7.7	6.3	7.0	7.8	5.5	6.8	6.9	5.6	6.4
30	8.5	5.9	7.2	7.4	5.8	6.5	8.6	5.2	7.0	7.4	6.0	6.7
31	---	---	---	8.3	6.5	7.4	7.6	6.2	6.9	---	---	---
MONTH	11.1	5.6	7.3	9.0	3.1	6.6	10.9	5.2	7.5	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	7.6	6.7	7.1	9.9	9.5	9.7	12.9	11.9	12.6
2	7.3	5.8	6.4	7.7	6.7	7.2	10.1	9.7	9.9	12.9	11.8	12.5
3	6.4	5.1	5.9	8.0	6.9	7.5	10.2	9.7	10.0	13.2	12.1	12.7
4	7.5	4.5	5.4	7.6	6.4	7.2	10.3	9.9	10.2	13.6	12.5	13.2
5	9.1	4.3	5.4	7.9	6.5	7.2	10.8	9.7	10.2	13.5	12.1	13.1
6	9.5	4.4	7.7	7.4	6.2	6.9	11.0	9.6	10.2	13.4	12.3	12.9
7	7.4	2.7	4.4	7.6	5.9	6.8	11.2	9.6	10.5	13.5	12.2	13.1
8	---	---	---	7.5	5.4	6.5	11.4	9.2	10.5	13.3	11.3	12.9
9	---	---	---	7.9	5.3	6.9	11.2	8.8	10.2	12.9	11.4	12.4
10	8.1	6.9	7.5	7.8	6.7	7.2	10.6	8.9	10.0	12.7	12.3	12.5
11	8.5	7.1	7.8	7.9	6.9	7.3	10.5	8.9	10.0	12.7	12.3	12.4
12	8.6	6.7	7.7	7.6	6.6	7.1	10.7	8.8	10.0	12.6	11.8	12.2
13	---	---	---	7.1	6.3	6.7	10.2	8.6	9.5	12.4	11.7	12.0
14	---	---	---	7.4	6.2	6.7	10.2	9.3	9.9	12.1	11.8	11.9
15	---	---	---	7.8	6.4	7.0	10.1	8.8	9.4	12.0	11.3	11.7
16	---	---	---	8.2	6.8	7.6	10.5	9.2	9.6	12.2	11.2	11.7
17	---	---	---	8.2	7.9	8.1	10.3	8.6	9.2	12.8	11.1	11.8
18	---	---	---	8.3	7.7	8.1	9.6	8.3	8.7	12.7	11.7	12.0
19	---	---	---	8.4	8.1	8.2	10.0	8.0	8.8	12.8	11.7	12.2
20	4.2	3.7	4.0	8.7	8.2	8.4	9.8	9.0	9.4	11.9	11.0	11.5
21	4.8	3.2	3.6	9.1	8.6	8.8	12.0	9.5	10.2	11.7	11.0	11.2
22	4.3	2.9	3.2	9.4	9.0	9.2	13.0	10.5	11.7	11.9	11.1	11.5
23	7.2	3.5	4.9	9.6	9.2	9.4	12.2	11.5	11.8	11.9	11.0	11.6
24	6.9	5.1	6.2	9.8	9.4	9.6	12.5	11.1	11.9	12.2	11.3	11.6
25	7.6	5.9	6.5	9.8	9.5	9.7	13.0	10.7	12.3	11.9	11.0	11.6
26	7.6	5.8	6.7	9.7	9.5	9.6	12.8	11.9	12.2	12.4	11.6	11.8
27	7.8	6.9	7.4	9.7	9.4	9.5	13.0	11.8	12.2	12.3	11.9	12.1
28	7.9	7.0	7.4	9.7	9.4	9.5	12.7	11.1	12.0	12.7	11.9	12.3
29	7.8	6.5	6.9	10.2	9.5	9.8	12.6	12.0	12.2	13.3	11.2	12.4
30	7.3	6.4	6.9	10.0	9.6	9.9	13.0	11.6	12.2	13.3	12.1	12.7
31	7.6	6.6	7.0	---	---	---	12.8	11.8	12.6	12.2	11.9	12.0
MONTH	---	---	---	10.2	5.3	8.0	13.0	8.0	10.6	13.6	11.0	12.2

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.0	11.2	11.7	7.9	7.3	7.6	9.9	9.0	9.5	8.6	8.0	8.3
2	12.4	10.9	11.4	7.9	7.2	7.5	10.0	9.1	9.4	8.7	7.2	8.2
3	12.1	11.0	11.6	7.9	6.9	7.2	9.8	9.1	9.5	8.4	7.7	8.2
4	12.2	11.5	11.8	7.5	6.7	7.1	9.6	8.7	9.2	8.4	7.3	7.9
5	12.1	11.4	11.8	---	---	---	9.7	8.7	9.2	8.4	7.0	7.9
6	12.4	9.8	11.4	8.4	7.5	8.0	9.4	8.9	9.2	8.3	6.6	7.8
7	12.4	9.4	11.3	8.7	8.1	8.4	9.1	8.4	8.8	8.5	7.9	8.2
8	13.0	9.6	11.3	8.9	8.0	8.6	8.9	8.2	8.6	8.9	7.9	8.4
9	12.3	9.3	11.2	8.9	7.6	8.5	8.6	7.4	7.9	8.4	7.3	7.9
10	11.4	9.7	10.7	9.1	7.9	8.6	8.8	7.2	7.7	7.8	6.8	7.2
11	10.9	9.2	10.3	9.8	8.2	8.8	7.9	6.8	7.4	7.9	6.6	7.3
12	10.7	8.9	10.2	9.5	8.3	8.9	8.1	6.1	7.5	7.5	6.8	7.2
13	10.8	8.2	10.2	9.2	8.4	8.8	8.1	7.1	7.6	7.6	6.5	7.0
14	10.8	8.1	9.5	9.0	8.2	8.6	7.9	7.1	7.4	7.6	6.7	7.1
15	8.3	7.9	8.1	8.8	8.2	8.5	7.7	7.2	7.4	7.2	5.9	6.7
16	8.1	7.3	7.9	8.6	7.9	8.1	8.4	7.1	7.5	6.9	5.5	6.3
17	8.0	6.9	7.6	8.8	7.6	8.0	8.3	7.1	7.6	7.1	6.2	6.7
18	7.9	7.4	7.6	8.9	8.0	8.5	8.4	7.5	8.0	7.7	5.9	6.8
19	8.0	7.5	7.8	8.9	8.3	8.5	8.9	7.9	8.3	8.2	4.9	7.0
20	7.9	7.5	7.8	9.0	8.5	8.7	8.7	8.1	8.6	8.2	5.5	7.1
21	7.7	7.0	7.4	9.3	8.6	8.8	8.8	8.1	8.6	7.4	5.4	7.0
22	7.8	7.0	7.6	9.2	8.8	8.9	8.8	7.8	8.5	8.0	6.5	7.0
23	8.1	7.6	7.8	9.6	8.8	9.1	8.7	7.9	8.3	6.9	6.1	6.5
24	8.3	7.6	8.0	9.7	8.8	9.3	8.2	7.5	8.1	6.8	5.3	6.5
25	8.2	7.7	8.0	9.3	8.8	9.0	8.1	7.5	7.8	7.4	5.3	6.6
26	7.8	7.6	7.7	9.4	8.8	9.0	8.5	7.6	8.1	7.3	6.1	6.8
27	7.9	7.3	7.6	10.2	8.9	9.4	8.8	8.0	8.3	7.5	5.3	6.9
28	7.7	7.2	7.5	10.4	9.3	10.0	8.6	8.1	8.4	7.5	5.5	7.0
29	---	---	---	10.3	9.9	10.1	8.6	8.0	8.3	6.9	5.4	6.2
30	---	---	---	10.2	9.6	10.0	8.7	8.0	8.3	7.4	5.2	6.2
31	---	---	---	10.0	8.9	9.5	---	---	---	7.4	5.8	6.7
MONTH	13.0	6.9	9.4	---	---	---	10.0	6.1	8.3	8.9	4.9	7.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.4	6.1	6.9	8.2	5.8	7.2	8.1	2.1	5.4	6.9	.2	4.1
2	7.8	6.9	7.4	7.4	5.1	6.6	8.4	2.3	6.0	2.3	.2	.5
3	8.0	6.7	7.4	7.8	5.1	6.5	9.3	5.0	7.2	5.4	.3	2.2
4	7.5	7.0	7.3	7.4	4.9	6.5	9.1	6.3	7.5	5.2	.5	3.2
5	7.4	6.5	7.0	7.6	5.2	6.7	8.3	4.0	5.5	4.0	.6	1.7
6	7.3	6.2	6.8	6.8	5.8	6.2	5.9	2.9	4.7	2.4	.1	.7
7	7.4	5.2	6.4	6.4	5.2	5.7	5.5	2.0	3.4	4.2	.1	1.2
8	6.7	5.5	6.2	6.6	5.2	5.6	5.3	2.4	4.1	7.3	1.0	4.2
9	7.2	4.7	5.8	6.0	3.8	4.6	7.7	2.5	4.8	7.1	4.8	6.4
10	7.4	3.6	6.0	6.8	3.3	4.7	7.6	5.8	6.6	7.3	4.5	6.2
11	7.7	5.8	6.7	5.8	2.6	4.0	6.9	5.7	6.3	6.8	2.4	5.1
12	7.2	5.3	6.3	7.2	2.1	4.2	7.2	5.2	6.2	6.2	1.4	3.7
13	6.7	5.3	6.0	6.8	.9	3.0	7.8	5.7	6.7	6.3	.4	2.8
14	6.4	5.3	6.1	5.5	.1	2.6	7.0	4.5	5.9	6.4	.1	2.9
15	6.7	5.7	6.2	7.7	.1	3.2	6.4	3.5	5.2	6.5	4.3	5.6
16	6.8	5.8	6.3	7.4	.0	2.3	8.0	1.2	5.0	7.5	6.3	6.8
17	6.8	5.3	6.1	8.1	.5	5.4	9.4	2.5	6.5	7.9	6.3	6.9
18	8.7	4.0	5.5	8.0	2.4	6.6	7.1	2.8	6.2	7.8	5.1	6.2
19	9.1	4.3	5.7	6.9	.8	4.6	8.2	2.9	5.4	8.4	4.7	6.4
20	10.1	3.4	7.1	4.8	1.2	1.9	7.4	3.5	6.5	7.7	4.3	6.8
21	10.2	5.4	8.1	3.9	1.2	1.7	6.5	3.0	5.1	8.1	5.5	7.1
22	8.8	5.8	7.7	7.5	1.1	2.8	8.0	1.9	4.5	7.6	2.9	6.3
23	7.6	6.8	7.1	8.1	1.2	6.5	8.1	1.5	4.4	8.1	2.7	5.5
24	7.0	5.5	6.2	8.4	6.2	7.5	6.3	.9	3.0	7.3	3.3	6.3
25	8.0	4.7	5.9	8.0	6.6	7.1	4.3	.5	1.8	6.5	4.5	5.6
26	7.9	4.4	6.1	6.8	5.9	6.3	6.1	.5	2.9	6.8	5.3	5.9
27	7.7	3.0	5.6	6.2	3.3	5.3	8.6	.8	4.7	7.4	4.4	6.1
28	7.2	3.0	5.6	6.5	4.1	5.1	8.4	3.2	7.1	7.1	2.6	5.6
29	7.9	2.8	4.7	7.4	4.3	6.2	7.7	1.1	5.1	6.8	3.0	5.7
30	9.2	3.9	6.9	7.1	3.3	5.5	6.6	1.1	3.7	7.6	3.0	6.7
31	---	---	---	6.9	4.1	5.6	7.7	.6	6.4	---	---	---
MONTH	10.2	2.8	6.4	8.4	.0	5.1	9.4	.5	5.3	8.4	.1	4.8

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	70	64	67	89	84	87	97	88	92
2	95	81	87	70	64	67	88	82	86	97	90	92
3	111	83	95	72	62	67	85	74	83	98	90	94
4	131	87	102	73	62	67	86	80	83	101	93	96
5	133	99	114	76	63	69	90	79	86	101	93	96
6	135	89	111	74	65	69	90	79	87	102	92	95
7	123	84	99	74	64	70	93	86	89	102	94	97
8	---	---	---	78	65	71	96	89	91	106	96	98
9	---	---	---	79	68	74	92	83	89	100	91	95
10	95	84	89	80	71	75	92	81	87	96	91	93
11	118	83	93	80	70	74	92	82	86	100	91	94
12	103	77	91	74	70	72	92	83	88	100	94	96
13	---	---	---	77	68	72	90	81	86	100	92	95
14	---	---	---	77	69	73	90	84	87	99	93	96
15	---	---	---	80	71	74	91	82	86	104	95	99
16	---	---	---	78	71	74	95	82	87	103	96	100
17	---	---	---	75	69	71	91	74	84	102	89	97
18	---	---	---	74	69	71	105	72	86	---	---	---
19	---	---	---	74	70	72	93	76	86	---	---	---
20	104	73	87	77	71	73	87	77	81	---	---	---
21	97	68	87	78	73	75	102	78	87	---	---	---
22	93	65	81	80	74	76	106	92	100	---	---	---
23	78	61	72	86	76	78	95	88	91	---	---	---
24	79	68	72	83	77	78	103	89	95	---	---	---
25	84	60	71	82	79	79	104	88	93	---	---	---
26	74	64	69	83	79	81	98	88	92	---	---	---
27	71	64	67	87	80	81	103	89	96	---	---	---
28	78	63	68	89	81	83	98	88	93	---	---	---
29	71	61	66	94	83	88	94	88	91	---	---	---
30	72	62	67	89	84	88	99	91	94	---	---	---
31	77	63	68	---	---	---	95	88	91	---	---	---
MONTH	---	---	---	94	62	74	106	72	89	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	75	57	70	---	---	---	95	85	90
2	---	---	---	75	56	69	---	---	---	95	83	89
3	---	---	---	78	59	70	---	---	---	94	86	90
4	---	---	---	73	64	69	---	---	---	97	85	90
5	---	---	---	75	62	71	---	---	---	98	84	90
6	---	---	---	80	70	73	---	---	---	93	84	89
7	---	---	---	78	71	74	---	---	---	96	86	91
8	---	---	---	84	66	77	---	---	---	98	87	92
9	---	---	---	82	75	79	---	---	---	---	---	---
10	---	---	---	88	76	81	---	---	---	---	---	---
11	---	---	---	92	78	87	---	---	---	---	---	---
12	---	---	---	92	81	87	---	---	---	---	---	---
13	---	---	---	87	80	85	---	---	---	---	---	---
14	---	---	---	89	80	85	---	---	---	---	---	---
15	81	51	73	88	79	84	---	---	---	---	---	---
16	80	58	74	87	78	83	---	---	---	---	---	---
17	76	64	73	95	81	88	---	---	---	83	73	78
18	75	65	69	90	83	86	---	---	---	90	74	81
19	73	59	69	89	81	84	91	79	84	96	79	87
20	73	60	68	85	82	83	88	82	85	96	80	87
21	73	59	68	90	81	84	91	83	88	90	83	87
22	71	65	69	86	82	85	94	86	90	87	78	83
23	77	62	68	91	83	87	94	86	90	82	75	78
24	74	59	70	93	87	90	93	86	89	91	71	80
25	76	68	72	90	81	86	89	81	85	95	75	83
26	76	60	71	86	82	84	90	80	85	94	79	85
27	77	57	71	---	---	---	94	82	88	93	83	88
28	76	64	72	---	---	---	93	87	90	92	86	89
29	---	---	---	---	---	---	93	85	89	88	80	84
30	---	---	---	---	---	---	94	87	91	97	81	88
31	---	---	---	---	---	---	---	---	---	96	78	84
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	89	77	82	110	81	93	111	73	95	94	76	85
2	97	82	88	100	77	88	120	88	103	106	61	83
3	100	85	91	106	76	88	136	94	114	101	64	84
4	96	83	88	98	77	85	140	109	123	92	65	79
5	104	78	87	101	77	87	131	99	114	94	73	82
6	95	79	88	87	75	81	123	87	101	97	54	72
7	96	71	85	82	65	75	119	90	103	104	68	81
8	91	78	84	75	66	71	130	93	108	94	68	83
9	99	80	87	89	62	71	129	79	103	91	81	86
10	102	78	92	102	52	81	103	78	90	100	75	88
11	103	75	91	82	52	67	105	81	89	91	75	81
12	96	73	86	101	38	73	101	71	87	88	71	78
13	90	71	82	86	68	72	122	84	98	105	65	84
14	86	78	81	90	66	77	108	81	93	100	52	80
15	88	78	83	108	77	90	111	86	95	85	61	73
16	96	82	87	115	74	92	140	76	98	89	75	81
17	101	77	86	117	85	99	140	66	106	95	77	85
18	115	78	91	106	72	89	114	67	93	98	79	87
19	139	84	102	95	61	84	113	68	91	---	---	---
20	144	102	116	95	59	79	101	80	91	---	---	---
21	138	102	115	106	74	90	109	69	82	---	---	---
22	126	89	107	114	79	91	106	75	85	---	---	---
23	95	84	89	102	85	94	120	71	92	---	---	---
24	93	83	88	105	87	94	101	74	87	---	---	---
25	111	84	93	103	84	91	99	66	81	---	---	---
26	106	87	96	91	78	85	100	75	87	---	---	---
27	107	84	94	84	72	77	132	83	104	---	---	---
28	127	78	100	88	65	78	111	89	101	88	66	78
29	116	81	97	96	78	86	99	70	86	78	63	73
30	112	76	95	91	72	80	111	66	88	82	67	74
31	---	---	---	103	79	91	97	78	88	---	---	---
MONTH	144	71	92	117	38	84	140	66	96	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	77	67	71	86	83	85	95	89	92
2	84	65	73	78	68	73	87	84	85	96	88	92
3	72	58	66	81	70	75	85	81	83	96	90	93
4	86	51	61	77	65	72	84	81	82	98	92	95
5	107	48	62	80	65	73	86	80	83	98	89	95
6	113	51	90	75	63	70	88	79	82	98	91	95
7	87	31	50	77	60	68	89	79	84	101	91	96
8	---	---	---	76	55	66	93	75	85	99	85	95
9	---	---	---	81	54	70	92	73	83	97	85	93
10	85	72	78	81	69	75	86	74	81	95	92	93
11	87	73	81	81	70	74	86	74	82	96	91	93
12	89	70	79	77	66	71	90	73	83	95	89	92
13	---	---	---	71	62	66	84	72	79	95	88	92
14	---	---	---	73	62	67	87	79	84	94	91	92
15	---	---	---	76	63	68	87	74	81	93	88	91
16	---	---	---	80	66	74	91	79	83	99	87	91
17	---	---	---	79	76	77	90	76	81	103	86	92
18	---	---	---	78	72	77	84	72	76	103	92	94
19	---	---	---	78	75	76	86	70	76	107	93	100
20	45	40	43	79	75	77	83	77	80	101	89	97
21	52	34	39	81	78	79	98	79	86	98	92	95
22	46	31	34	81	78	80	107	89	97	100	93	96
23	78	37	53	82	79	81	98	93	95	99	92	96
24	73	54	66	83	80	81	99	89	94	101	92	95
25	82	63	69	85	82	83	102	86	96	97	90	94
26	81	61	71	84	82	83	97	92	93	100	92	94
27	84	74	79	85	82	83	98	90	92	98	94	97
28	84	75	79	86	81	83	96	86	92	101	95	97
29	83	68	73	90	83	87	94	90	92	108	90	99
30	76	67	72	88	85	87	98	88	92	108	101	104
31	78	67	72	---	---	---	95	89	93	104	99	101
MONTH	---	---	---	90	54	76	107	70	86	108	85	95

0208457125 PUNGO RIVER AT CHANNEL LIGHT 8--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	102	96	99	72	66	69	95	86	91	93	84	88
2	106	93	97	72	66	69	95	86	90	98	78	89
3	103	93	97	71	63	66	93	86	90	95	84	91
4	102	96	98	69	61	65	91	83	87	97	81	89
5	101	96	99	---	---	---	94	82	88	98	79	91
6	106	82	96	73	67	70	92	86	89	95	75	89
7	106	79	96	75	69	72	90	83	87	94	87	90
8	114	84	97	78	69	74	92	84	88	99	87	92
9	109	82	98	77	65	73	93	77	83	93	81	88
10	102	87	96	81	69	74	99	76	84	88	75	81
11	97	81	92	87	71	77	86	75	81	91	74	82
12	93	77	89	86	72	79	92	68	84	87	78	82
13	94	71	88	85	77	81	91	81	86	87	75	81
14	93	70	83	85	76	81	89	79	83	89	77	82
15	73	69	72	83	78	80	86	80	83	83	68	76
16	75	64	71	82	74	77	92	79	83	78	62	71
17	73	62	70	86	72	76	88	78	82	79	69	74
18	71	67	69	87	77	82	86	78	82	86	66	76
19	71	67	70	84	79	81	91	79	83	94	54	79
20	70	66	69	84	79	81	89	82	87	96	63	82
21	70	63	67	86	79	82	91	82	88	87	62	81
22	69	63	68	85	82	83	93	82	89	95	77	83
23	70	67	68	91	81	85	95	84	89	82	73	77
24	74	67	70	93	83	88	92	84	88	82	63	76
25	73	68	71	89	82	85	87	81	84	89	63	79
26	71	69	70	87	81	84	90	81	84	88	73	81
27	74	66	70	93	81	85	93	82	86	90	64	83
28	71	66	69	95	84	91	91	85	89	90	65	83
29	---	---	---	94	90	92	91	85	88	82	64	73
30	---	---	---	98	90	93	92	84	87	89	62	74
31	---	---	---	95	83	91	---	---	---	88	68	79
MONTH	114	62	82	---	---	---	99	68	86	99	54	82

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	88	71	82	108	75	94	101	26	67	87	3	52
2	95	83	88	97	65	85	106	29	75	29	3	6
3	97	80	89	99	65	83	118	62	91	68	4	28
4	92	84	88	95	62	83	116	79	93	65	6	41
5	91	79	85	97	66	85	105	50	70	51	7	22
6	91	76	83	87	74	79	77	37	60	30	2	8
7	93	65	80	80	65	72	73	25	44	53	1	16
8	84	68	77	83	65	70	72	32	54	91	12	53
9	90	58	72	76	48	57	103	33	64	90	60	80
10	94	44	75	89	41	60	102	77	89	93	57	79
11	97	72	84	75	33	51	92	75	83	87	30	64
12	92	67	79	93	27	53	96	68	82	77	17	47
13	86	67	77	87	11	39	104	75	88	79	5	36
14	81	68	77	68	1	33	92	59	77	78	1	36
15	84	72	78	96	1	39	82	45	67	77	52	67
16	85	72	78	92	1	29	104	16	64	88	74	79
17	84	65	75	103	7	68	123	32	84	92	73	80
18	111	50	69	102	30	83	92	36	80	91	60	72
19	116	53	71	86	10	58	108	38	70	99	55	75
20	128	43	90	59	15	23	95	44	84	92	51	81
21	131	68	102	48	15	22	84	39	65	97	65	84
22	114	73	98	94	14	35	104	25	58	91	34	76
23	98	86	91	103	15	82	105	20	57	99	32	67
24	89	70	79	107	78	95	80	12	38	90	40	77
25	102	59	74	104	84	91	54	6	23	79	54	69
26	101	55	78	87	75	80	77	7	37	80	63	70
27	100	38	72	79	42	67	110	10	59	88	52	72
28	93	38	72	80	51	63	107	40	90	83	30	65
29	104	36	60	91	53	76	97	14	65	77	35	65
30	122	49	90	87	41	67	84	14	47	84	35	75
31	---	---	---	85	50	68	98	7	81	---	---	---
MONTH	131	36	80	108	1	64	123	6	68	99	1	58

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE

LOCATION.--Lat 35°39'32", long 75°53'20", Dare County, Hydrologic Unit 03020105, on upstream side of culvert at intersection of Stomper Road and Whipping Creek road, 0.9 mi north of U.S. Highway 264, and 2.2 mi south of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--September 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

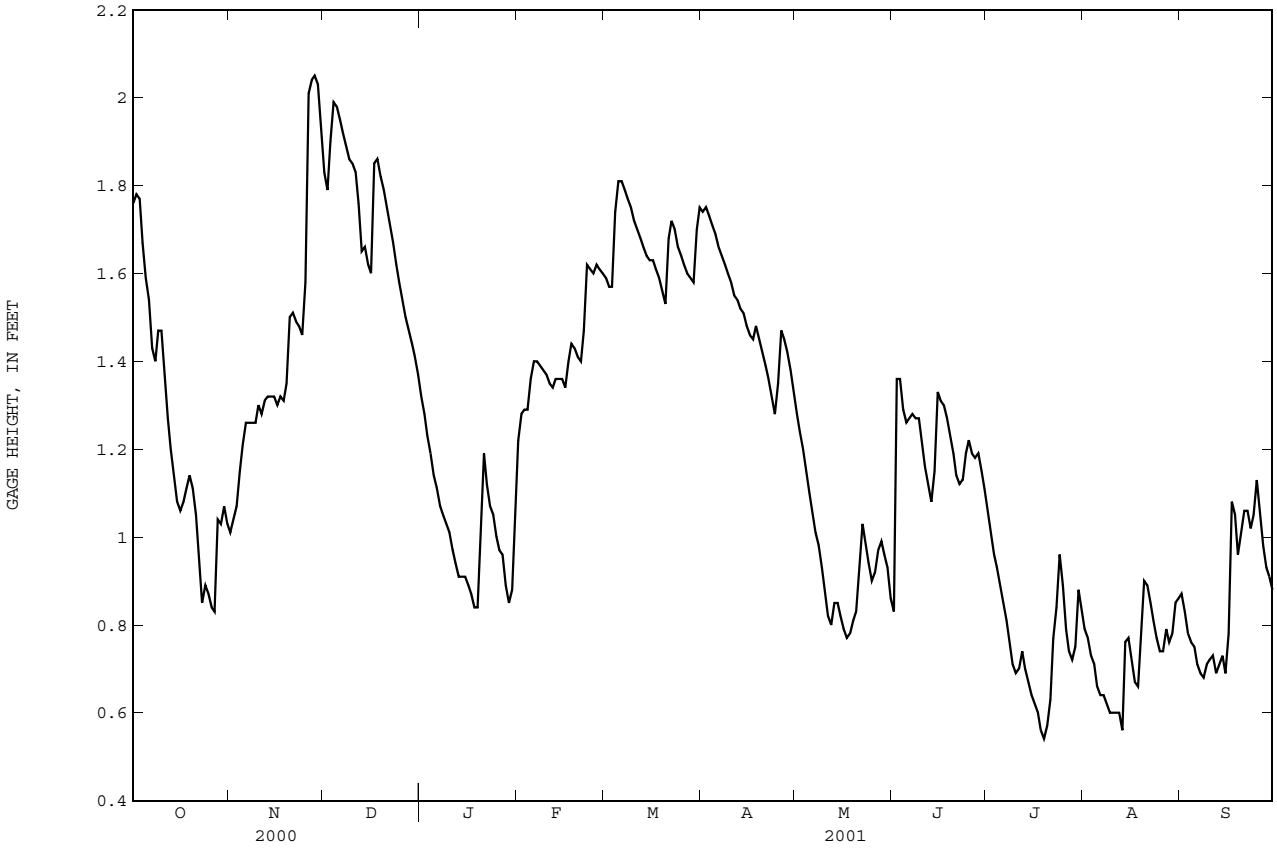
REMARKS.--Station operated as part of a special study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 3.13 ft, Sept. 16, 1999; minimum, 0.33 ft, Jan. 3, 2000.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.76	1.01	1.83	1.32	1.22	1.59	1.74	1.28	.83	1.06	.79	.87
2	1.78	1.04	1.79	1.28	1.28	1.57	1.75	1.24	1.36	1.01	.77	.83
3	1.77	1.07	1.90	1.23	1.29	1.57	1.73	1.20	1.36	.96	.73	.78
4	1.67	1.15	1.99	1.19	1.29	1.74	1.71	1.15	1.29	.93	.71	.76
5	1.59	1.21	1.98	1.14	1.36	1.81	1.69	1.10	1.26	.89	.66	.75
6	1.54	1.26	1.95	1.11	1.40	1.81	1.66	1.06	1.27	.85	.64	.71
7	1.43	1.26	1.92	1.07	1.40	1.79	1.64	1.01	1.28	.81	.64	.69
8	1.40	1.26	1.89	1.05	1.39	1.77	1.62	.98	1.27	.76	.62	.68
9	1.47	1.26	1.86	1.03	1.38	1.75	1.60	.93	1.27	.71	.60	.71
10	1.47	1.30	1.85	1.01	1.37	1.72	1.58	.87	1.21	.69	.60	.72
11	1.37	1.28	1.83	.97	1.35	1.70	1.55	.82	1.16	.70	.60	.73
12	1.27	1.31	1.76	.94	1.34	1.68	1.54	.80	1.12	.74	.60	.69
13	1.20	1.32	1.65	.91	1.36	1.66	1.52	.85	1.08	.70	.56	.71
14	1.14	1.32	1.66	.91	1.36	1.64	1.51	.85	1.15	.67	.76	.73
15	1.08	1.32	1.62	.91	1.36	1.63	1.48	.82	1.33	.64	.77	.69
16	1.06	1.30	1.60	.89	1.34	1.63	1.46	.79	1.31	.62	.72	.78
17	1.08	1.32	1.85	.87	1.40	1.61	1.45	.77	1.30	.60	.67	1.08
18	1.11	1.31	1.86	.84	1.44	1.59	1.48	.78	1.27	.56	.66	1.05
19	1.14	1.35	1.82	.84	1.43	1.56	1.45	.81	1.23	.54	.79	.96
20	1.11	1.50	1.79	1.00	1.41	1.53	1.42	.83	1.19	.57	.90	1.01
21	1.05	1.51	1.75	1.19	1.40	1.68	1.39	.94	1.14	.63	.89	1.06
22	.95	1.49	1.71	1.12	1.47	1.72	1.36	1.03	1.12	.77	.85	1.06
23	.85	1.48	1.67	1.07	1.62	1.70	1.32	.98	1.13	.84	.81	1.02
24	.89	1.46	1.62	1.05	1.61	1.66	1.28	.94	1.19	.96	.77	1.05
25	.87	1.58	1.58	1.00	1.60	1.64	1.35	.90	1.22	.89	.74	1.13
26	.84	2.01	1.54	.97	1.62	1.62	1.47	.92	1.19	.79	.74	1.05
27	.83	2.04	1.50	.96	1.61	1.60	1.45	.97	1.18	.74	.79	.98
28	1.04	2.05	1.47	.89	1.60	1.59	1.42	.99	1.19	.72	.76	.93
29	1.03	2.03	1.44	.85	---	1.58	1.38	.96	1.15	.75	.78	.91
30	1.07	1.93	1.41	.88	---	1.70	1.33	.93	1.11	.88	.85	.88
31	1.03	---	1.37	1.01	---	1.75	---	.86	---	.84	.86	---
MEAN	1.22	1.42	1.72	1.02	1.42	1.66	1.51	.95	1.21	.77	.73	.87
MAX	1.78	2.05	1.99	1.32	1.62	1.81	1.75	1.28	1.36	1.06	.90	1.13
MIN	.83	1.01	1.37	.84	1.22	1.53	1.28	.77	.83	.54	.56	.68

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE--Continued



353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - UPSTREAM STAGE--Continued

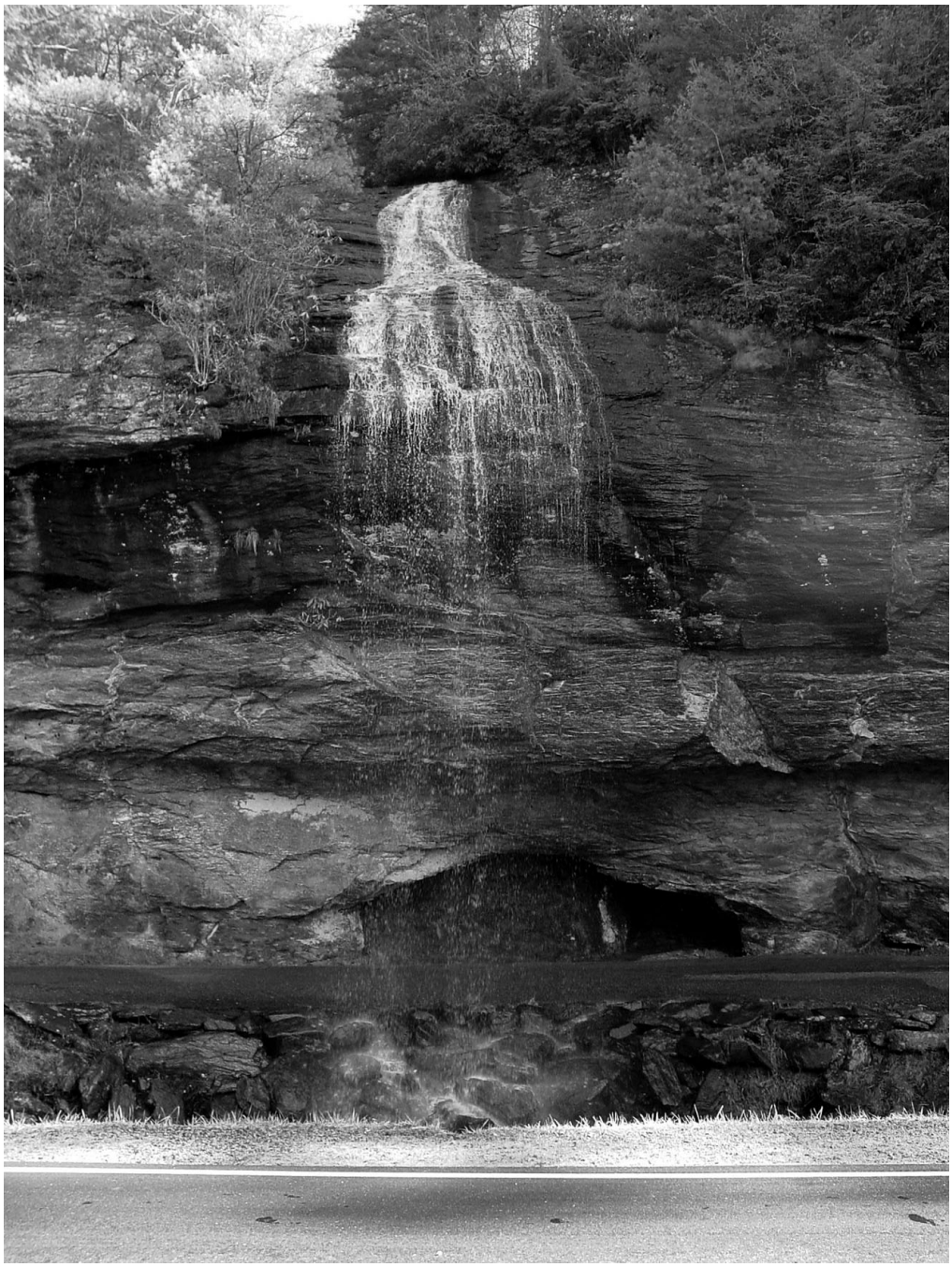
WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year (discontinued).

REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
13...	1752	7.2	3.8	0	9.0	3.89
13...	1753	7.2	3.8	0	9.0	3.00
13...	1755	7.1	3.8	0	9.0	2.00
13...	1756	7.1	3.8	0	9.0	1.00
APR						
02...	1625	6.6	3.7	0	11.8	4.38
02...	1627	6.4	3.8	0	11.8	4.00
02...	1628	6.4	3.8	0	12.1	3.00
02...	1629	6.5	3.8	0	13.1	1.97
02...	1631	6.7	3.9	0	13.6	.98
MAY						
08...	1739	5.0	3.7	0	17.5	3.56
08...	1740	4.9	3.7	0	17.7	2.99
08...	1741	4.8	3.7	0	18.1	1.99
08...	1743	6.5	3.8	0	21.9	.99
JUN						
20...	1625	1.5	5.0	8	22.3	3.77
20...	1626	1.5	3.9	0	22.4	3.01
20...	1627	2.0	3.8	0	22.6	2.00
20...	1628	2.0	3.9	0	23.4	.99



Bridal Veil Falls near Highlands, North Carolina.

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - DOWNSTREAM STAGE

LOCATION.--Lat 35°39'32", long 75°53'20", Dare County, Hydrologic Unit 03020105, on downstream side of culvert at intersection of Stomper Road and Whipping Creek road, 0.9 mi north of U.S. Highway 264, and 2.2 mi south of U.S. Air Force Dare County Bombing Range.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

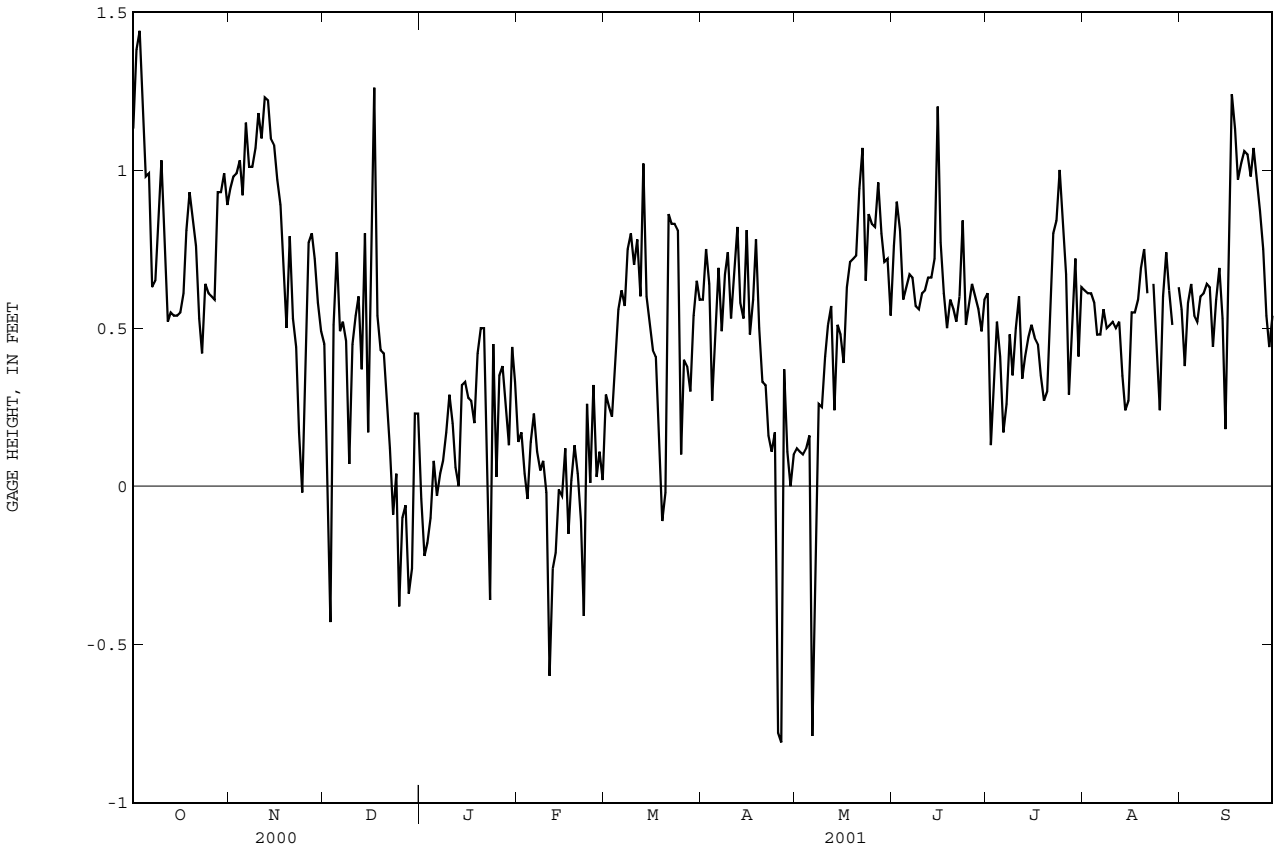
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.07 ft, Sept. 23, 2000; minimum, -1.54 ft, May 6, 2001.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.13	.94	.45	-.04	.14	.29	.59	.12	.76	.61	.62	.56
2	1.38	.98	-.03	-.22	.17	.25	.75	.11	.90	.13	.61	.38
3	1.44	.99	-.43	-.18	.04	.22	.64	.10	.81	.32	.61	.58
4	1.19	1.03	.51	-.10	-.04	.38	.27	.12	.59	.52	.58	.64
5	.98	.92	.74	.08	.14	.56	.49	.16	.63	.41	.48	.54
6	.99	1.15	.49	-.03	.23	.62	.69	-.79	.67	.17	.48	.52
7	.63	1.01	.52	.04	.11	.57	.49	-.34	.66	.26	.56	.60
8	.65	1.01	.46	.08	.05	.75	.67	.26	.57	.48	.50	.61
9	.86	1.07	.07	.17	.08	.80	.74	.25	.56	.35	.51	.64
10	1.03	1.18	.45	.29	-.02	.70	.53	.41	.61	.50	.52	.63
11	.73	1.10	.54	.20	-.60	.78	.69	.51	.62	.60	.50	.44
12	.52	1.23	.60	.06	-.26	.60	.82	.57	.66	.34	.52	.59
13	.55	1.22	.37	.00	-.21	1.02	.58	.24	.66	.41	.35	.69
14	.54	1.10	.80	.32	-.01	.60	.53	.51	.72	.47	.24	.53
15	.54	1.08	.17	.33	-.03	.51	.81	.48	1.20	.51	.27	.18
16	.55	.97	.56	.28	.12	.43	.48	.39	.77	.47	.55	.64
17	.61	.89	1.26	.27	-.15	.41	.59	.63	.61	.45	.55	1.24
18	.81	.67	.54	.20	.02	.15	.78	.71	.50	.35	.59	1.13
19	.93	.50	.43	.42	.13	-.11	.50	.72	.59	.27	.69	.97
20	.85	.79	.42	.50	.04	-.02	.33	.73	.56	.30	.75	1.02
21	.76	.53	.27	.50	-.11	.86	.32	.94	.52	.55	.61	1.06
22	.53	.44	.12	.09	-.41	.83	.16	1.07	.60	.80	---	1.05
23	.42	.17	-.09	-.36	.26	.83	.11	.65	.84	.84	.64	.98
24	.64	-.02	.04	.45	.01	.81	.17	.86	.51	1.00	.46	1.07
25	.61	.33	-.38	.03	.32	.10	-.78	.83	.57	.83	.24	.97
26	.60	.77	-.10	.35	.03	.40	-.81	.82	.64	.67	.60	.87
27	.59	.80	-.06	.38	.11	.38	.37	.96	.60	.29	.74	.75
28	.93	.72	-.34	.25	.02	.30	.11	.80	.56	.47	.62	.54
29	.93	.58	-.26	.13	---	.54	.00	.71	.49	.72	.51	.44
30	.99	.49	.23	.44	---	.65	.10	.72	.59	.41	---	.54
31	.89	---	.23	.33	---	.59	---	.54	---	.63	.63	---
MEAN	.80	.82	.28	.17	.01	.51	.39	.48	.65	.49	---	.71
MAX	1.44	1.23	1.26	.50	.32	1.02	.82	1.07	1.20	1.00	---	1.24
MIN	.42	-.02	-.43	-.36	-.60	-.11	-.81	-.79	.49	.13	---	.18

353932075532001 CG #3 STOMPER ROAD CANAL AT STOMPER ROAD - DOWNSTREAM STAGE--Continued



354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE

LOCATION.--Lat 35°41'49", long 75°46'39", Dare County, Hydrologic Unit 03020105, at upstream side of culvert on Lake Worth Road, 0.3 mi west of U.S. Highway 264, and 0.9 mi southwest of intersection of U.S. Highway 264 and Secondary Road 1100.

DRAINAGE AREA.--Indeterminate.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--October 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station

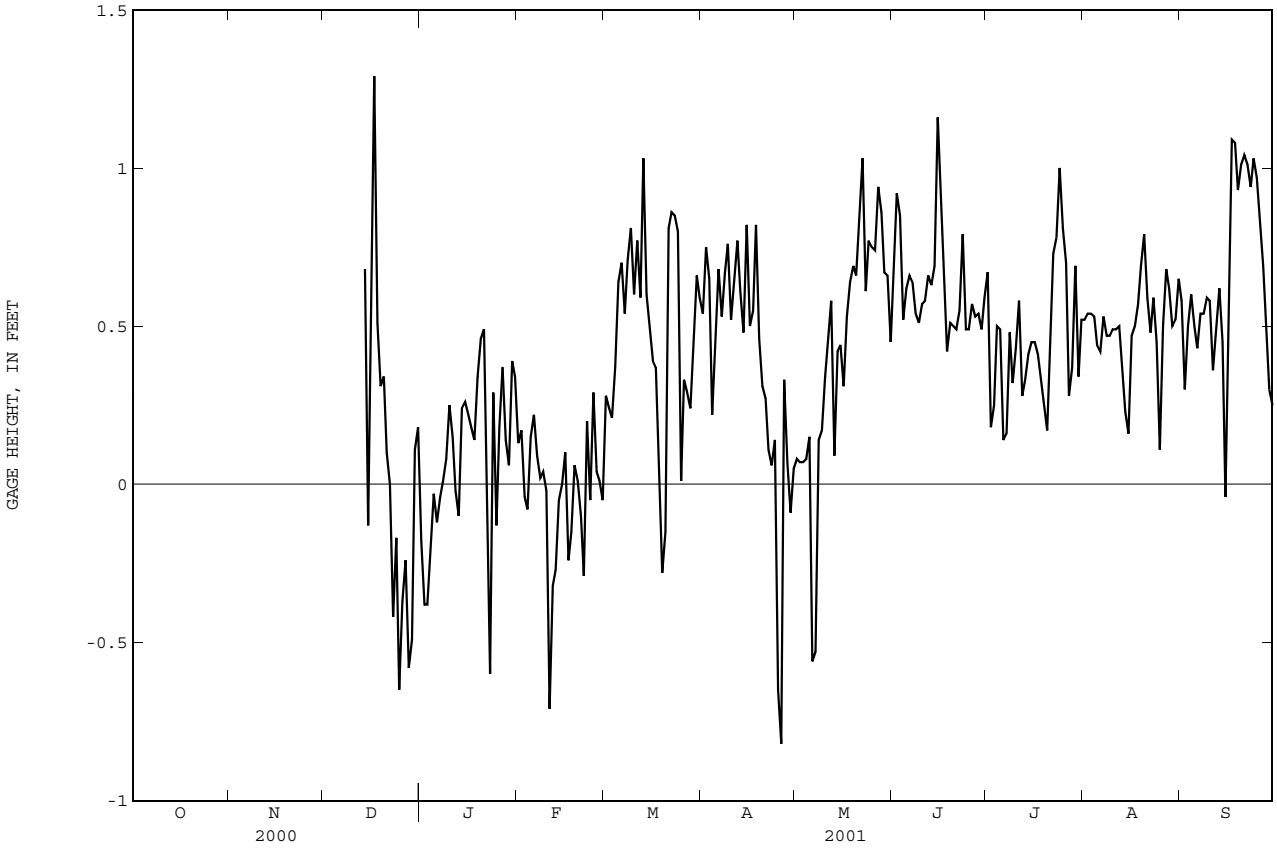
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 1.98 ft, Jan. 25, 2000 and Dec. 17, 2000; minimum, not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	-.18	.13	.28	.54	.08	.70	.67	.52	.58
2	---	---	---	-.38	.17	.24	.75	.07	.92	.18	.54	.30
3	---	---	---	-.38	-.04	.21	.65	.07	.85	.25	.54	.50
4	---	---	---	-.22	-.08	.37	.22	.08	.52	.50	.53	.60
5	---	---	---	-.03	.15	.64	.43	.15	.62	.49	.44	.50
6	---	---	---	-.12	.22	.70	.68	-.56	.66	.14	.42	.43
7	---	---	---	-.04	.09	.54	.53	-.53	.64	.16	.53	.54
8	---	---	---	.01	.02	.71	.67	.14	.54	.48	.47	.54
9	---	---	---	.08	.04	.81	.76	.17	.51	.32	.47	.59
10	---	---	---	.25	-.02	.60	.52	.34	.57	.43	.49	.58
11	---	---	---	.15	-.71	.77	.65	.45	.58	.58	.49	.36
12	---	---	---	-.02	-.32	.59	.77	.58	.66	.28	.50	.50
13	---	---	---	-.10	-.27	1.03	.61	.09	.63	.33	.35	.62
14	---	---	.68	.24	-.05	.60	.48	.42	.69	.41	.23	.45
15	---	---	-.13	.26	.00	.50	.82	.44	1.16	.45	.16	-.04
16	---	---	.42	.22	.10	.39	.50	.31	.82	.45	.47	.44
17	---	---	1.29	.18	-.24	.37	.55	.53	.59	.41	.50	1.09
18	---	---	.51	.14	-.15	.05	.82	.64	.42	.34	.57	1.08
19	---	---	.31	.34	.06	-.28	.46	.69	.51	.26	.69	.93
20	---	---	.34	.46	.01	-.15	.31	.66	.50	.17	.79	1.01
21	---	---	.10	.49	-.10	.81	.27	.86	.49	.43	.59	1.04
22	---	---	.00	-.07	-.29	.86	.11	1.03	.55	.73	.48	1.01
23	---	---	-.42	-.60	.20	.85	.06	.61	.79	.78	.59	.94
24	---	---	-.17	.29	-.05	.80	.14	.77	.49	1.00	.45	1.03
25	---	---	-.65	-.13	.29	.01	-.65	.75	.49	.81	.11	.97
26	---	---	-.37	.18	.04	.33	-.82	.74	.57	.70	.50	.82
27	---	---	-.24	.37	.01	.29	.33	.94	.53	.28	.68	.69
28	---	---	-.58	.14	-.05	.24	.07	.86	.54	.37	.62	.49
29	---	---	-.49	.06	---	.43	-.09	.67	.49	.69	.50	.30
30	---	---	.11	.39	---	.66	.05	.66	.59	.34	.52	.25
31	---	---	.18	.34	---	.59	---	.45	---	.52	.65	---
MEAN	---	---	---	.07	-.03	.48	.37	.42	.62	.45	.50	.64
MAX	---	---	---	.49	.29	1.03	.82	1.03	1.16	1.00	.79	1.09
MIN	---	---	---	-.60	-.71	-.28	-.82	-.56	.42	.14	.11	-.04

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE--Continued



354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - UPSTREAM STAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year (discontinued).

REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	SAM-PLING DEPTH (FEET) (00003)
FEB						
14...	0950	8.3	6.7	27200	8.6	7.29
APR						
02...	1715	7.1	7.0	26900	12.8	9.35
MAY						
08...	1820	4.0	6.9	26200	17.9	8.87
JUN						
20...	1715	.2	6.5	25600	25.6	8.78

Gaging station at Tar River near Tar River, North Carolina.

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - DOWNSTREAM STAGE

LOCATION.--Lat 35°41'49", long 75°46'39", Dare County, Hydrologic Unit 03020105, at downstream side of culvert on Lake Worth Road, 0.3 mi west of U.S. Highway 264, and 0.9 mi southwest of intersection of U.S. Highway 264 and Secondary Road 1100.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1999 to September 2001 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is sea level. Satellite telemetry at station.

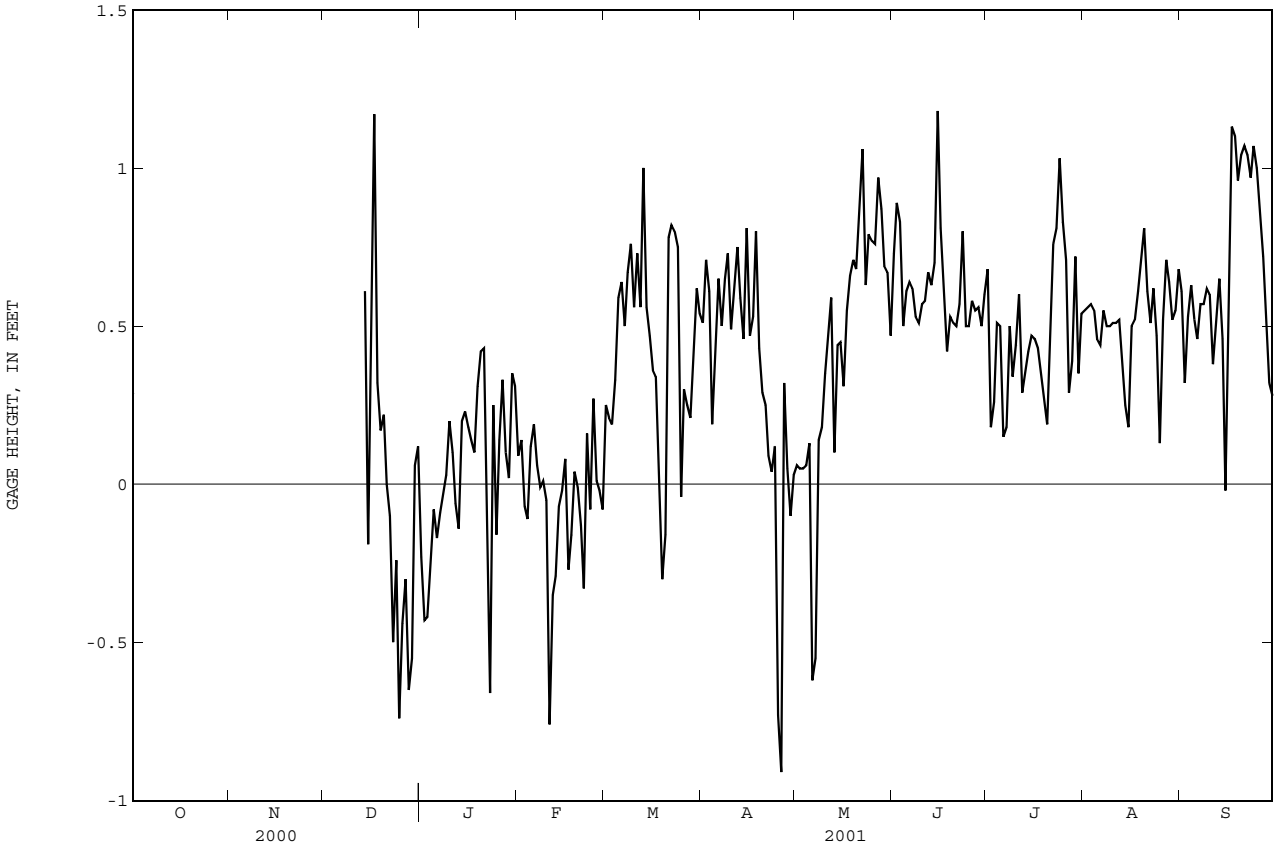
REMARKS.--Station operated as part of a study conducted in cooperation with the U.S. Fish and Wildlife Service and the U.S. Air Force. Negative numbers represent water surface below sea level.

EXTREMES FOR PERIOD OF RECORD.--Maximum, 2.40 ft, Dec. 17, 2000; minimum, not determined.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	-.23	.09	.25	.51	.06	.73	.68	.55	.61
2	---	---	---	-.43	.14	.21	.71	.05	.89	.18	.56	.32
3	---	---	---	-.42	-.07	.19	.61	.05	.83	.26	.57	.53
4	---	---	---	-.27	-.11	.33	.19	.06	.50	.51	.55	.63
5	---	---	---	-.08	.12	.59	.40	.13	.61	.50	.46	.52
6	---	---	---	-.17	.19	.64	.65	-.62	.64	.15	.44	.46
7	---	---	---	-.09	.06	.50	.50	-.55	.62	.18	.55	.57
8	---	---	---	-.03	-.01	.67	.65	.14	.53	.50	.50	.57
9	---	---	---	.03	.01	.76	.73	.18	.51	.34	.50	.62
10	---	---	---	.20	-.05	.56	.49	.35	.57	.44	.51	.60
11	---	---	---	.10	-.76	.73	.63	.46	.58	.60	.51	.38
12	---	---	---	-.06	-.35	.56	.75	.59	.67	.29	.52	.52
13	---	---	---	-.14	-.29	1.00	.59	.10	.63	.35	.37	.65
14	---	---	.61	.20	-.07	.56	.46	.44	.70	.42	.25	.46
15	---	---	-.19	.23	-.02	.47	.81	.45	1.18	.47	.18	-.02
16	---	---	.36	.18	.08	.36	.47	.31	.81	.46	.50	.47
17	---	---	1.17	.14	-.27	.34	.53	.55	.59	.43	.52	1.13
18	---	---	.32	.10	-.16	.03	.80	.66	.42	.35	.61	1.10
19	---	---	.17	.31	.04	-.30	.43	.71	.53	.27	.71	.96
20	---	---	.22	.42	-.01	-.16	.29	.68	.51	.19	.81	1.04
21	---	---	.00	.43	-.13	.78	.25	.88	.50	.45	.61	1.07
22	---	---	-.10	-.11	-.33	.82	.09	1.06	.57	.76	.51	1.04
23	---	---	-.50	-.66	.16	.80	.04	.63	.80	.81	.62	.97
24	---	---	-.24	.25	-.08	.75	.12	.79	.50	1.03	.47	1.07
25	---	---	-.74	-.16	.27	-.04	-.73	.77	.50	.83	.13	1.00
26	---	---	-.44	.14	.01	.30	-.91	.76	.58	.71	.52	.85
27	---	---	-.30	.33	-.02	.25	.32	.97	.55	.29	.71	.72
28	---	---	-.65	.10	-.08	.21	.05	.87	.56	.39	.64	.50
29	---	---	-.55	.02	---	.41	-.10	.69	.50	.72	.52	.32
30	---	---	.06	.35	---	.62	.03	.67	.60	.35	.55	.28
31	---	---	.12	.31	---	.54	---	.47	---	.54	.68	---
MEAN	---	---	---	.03	-.06	.44	.35	.43	.62	.47	.52	.66
MAX	---	---	---	.43	.27	1.00	.81	1.06	1.18	1.03	.81	1.13
MIN	---	---	---	-.66	-.76	-.30	-.91	-.62	.42	.15	.13	-.02

354149075463901 CG #4 LAKE WORTH ROAD CANAL NEAR STUMPY POINT, NC - DOWNSTREAM STAGE--Continued



02084909 SEVENMILE CREEK NEAR EFLAND, NC

LOCATION.--Lat 36°03'56", long 79°08'39", Orange County, Hydrologic Unit 03020201, at upstream side of culvert on I-85, 1 mi upstream from mouth, and 1.5 mi southeast of Efland.

DRAINAGE AREA.--14.1 mi^2.

PERIOD OF RECORD.--July 1981 to July 1982, June 1987 to current year.

REVISED RECORDS.--WRD NC-96-1: 1988-95(M).

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges and those for Oct., Nov., and Dec. 1-16, which are poor. Maximum discharge for period of record from rating curve extended above 1,000 ft^3/s, on the basis of computation of peak flow through culvert; maximum gage height 15.47 ft, from floodmark. No flow occurs periodically most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.3	.92	1.0	3.3	3.4	6.5	245	e4.0	62	.55	3.9	.79
2	1.3	.87	1.2	2.7	2.9	6.0	124	e3.8	48	.51	2.8	2.7
3	1.3	.82	1.4	2.4	2.7	6.2	36	e3.6	16	.40	1.9	.98
4	1.3	.74	1.2	2.5	2.6	35	22	e3.4	9.3	.48	1.1	.71
5	1.6	.71	1.2	2.8	3.0	32	13	e3.2	7.4	.96	.83	1.7
6	1.7	.77	1.1	3.1	3.1	19	9.6	e3.0	5.9	.69	.53	.97
7	1.5	.84	1.0	2.9	2.8	14	7.5	e3.0	8.5	.42	.55	.74
8	1.2	.90	.98	3.5	2.5	9.5	6.5	e2.9	5.9	4.4	.45	.64
9	1.4	.95	.90	3.1	2.5	7.3	6.0	e2.8	4.5	3.9	.36	.27
10	1.9	1.1	.94	2.6	3.0	5.8	5.1	e2.7	3.0	1.1	.29	.19
11	1.6	1.1	.56	2.6	3.9	5.5	4.6	e2.5	2.1	.57	5.9	.13
12	1.3	.90	.36	2.8	3.8	5.5	4.5	e2.5	2.2	.33	24	.09
13	1.1	.81	.33	2.7	7.4	6.3	4.3	e2.7	2.9	.27	3.9	.06
14	.88	.99	.43	3.3	7.7	5.6	4.0	e2.2	13	.23	2.5	.06
15	.87	.74	.47	3.3	6.6	11	3.7	e2.0	8.3	.18	1.7	.07
16	.91	.59	.94	2.9	6.8	19	4.3	16	4.3	.14	1.2	.06
17	.95	.37	107	2.5	169	9.8	4.2	4.9	2.5	.10	.83	.06
18	.95	.32	15	3.6	31	6.2	5.9	4.2	1.6	1.3	.85	.06
19	.91	.38	8.3	5.7	15	4.7	5.7	3.0	1.3	6.7	4.2	.04
20	.99	.59	7.2	36	9.7	11	5.8	2.7	1.0	1.3	2.5	.07
21	.93	.67	6.1	18	7.0	203	e5.5	2.6	.85	.50	1.3	.13
22	.77	.69	5.8	8.7	6.6	41	e5.2	3.2	.96	.25	.72	.21
23	.68	.59	5.4	5.9	7.2	18	e5.0	5.3	3.3	.24	.53	.17
24	.63	.65	5.1	4.6	9.1	10	e4.8	5.1	2.7	.36	.45	.28
25	.91	1.6	4.9	4.2	8.8	6.6	e9.0	4.4	1.4	.81	.35	.59
26	1.0	5.2	4.6	4.1	9.3	5.2	e8.0	7.1	2.6	6.2	.30	.33
27	.96	1.2	4.4	3.4	7.7	4.0	e7.0	6.8	2.1	40	.32	.22
28	.94	.94	4.6	3.2	7.2	3.6	e6.0	4.5	.93	10	.48	.18
29	.98	1.1	4.5	2.7	---	97	e5.0	4.3	.69	7.4	.33	.16
30	.85	1.0	4.3	3.6	---	255	e4.5	3.5	.57	15	.30	.13
31	.91	---	3.8	4.3	---	60	---	3.7	---	5.9	.32	---
TOTAL	34.52	29.05	205.01	157.0	352.3	929.3	581.7	125.6	225.80	111.19	65.69	12.79
MEAN	1.11	.97	6.61	5.06	12.6	30.0	19.4	4.05	7.53	3.59	2.12	.43
MAX	1.9	5.2	107	36	169	255	245	16	62	40	24	2.7
MIN	.63	.32	.33	2.4	2.5	3.6	3.7	2.0	.57	.10	.29	.04
CFSM	.08	.07	.47	.36	.89	2.13	1.38	.29	.53	.25	.15	.03
IN.	.09	.08	.54	.41	.93	2.45	1.53	.33	.60	.29	.17	.03

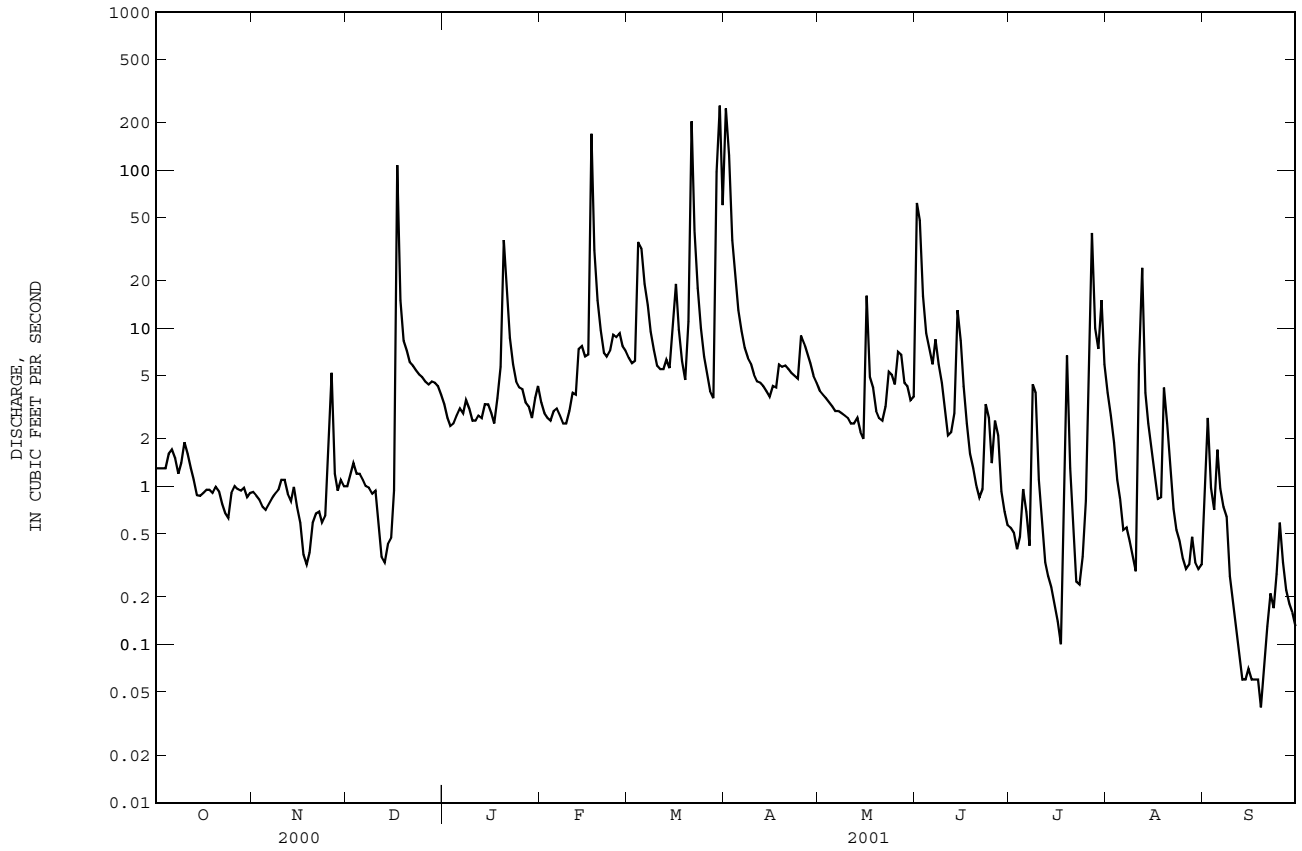
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	6.65	8.15	9.39	24.6	25.1	31.7	19.5	9.74	8.00	4.08	3.08	9.82
MAX	24.9	28.9	17.6	58.2	62.9	76.6	36.3	36.3	30.6	14.4	8.27	54.4
(WY)	1996	1996	1991	1991	1998	1998	1993	1989	1995	1989	1989	1996
MIN	.065	.064	2.90	5.06	4.35	4.39	.99	1.26	.53	.21	.33	.027
(WY)	1999	1999	1992	2001	1999	1988	1995	1995	1999	1988	1998	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	5344.56		2829.95			
ANNUAL MEAN	14.6		7.75		13.3	
HIGHEST ANNUAL MEAN					20.7	1996
LOWEST ANNUAL MEAN					5.92	1988
HIGHEST DAILY MEAN	359	Mar 17	255	Mar 30	1080	Sep 6 1996
LOWEST DAILY MEAN	.32	Nov 18	.04	Sep 19	.00	Aug 3 1988
ANNUAL SEVEN-DAY MINIMUM	.52	Nov 16	.06	Sep 13	.00	Aug 13 1988
MAXIMUM PEAK FLOW			562	Mar 30	3440	Sep 6 1996
MAXIMUM PEAK STAGE			8.63	Mar 30	15.47*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.03	Sep 19	.00*	Aug 6 1987
ANNUAL RUNOFF (CFSM)	1.04		.55		.94	
ANNUAL RUNOFF (INCHES)	14.10		7.47		12.77	
10 PERCENT EXCEEDS	42		9.7		24	
50 PERCENT EXCEEDS	4.4		2.7		4.6	
90 PERCENT EXCEEDS	.93		.33		.27	

e Estimated.
* See REMARKS.

02084909 SEVENMILE CREEK NEAR EFLAND, NC--Continued



02085000 ENO RIVER AT HILLSBOROUGH, NC

LOCATION.--Lat 36°04'18", long 79°05'49", 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 sea level. Telephone and satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Diversions upstream from station of 1.3 ft^3/s by Orange-Alamance Water System, Inc. and 1.9 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	6.3	e7.0	11	19	25	917	16	185	2.9	16	7.8
2	10	5.4	e6.9	9.9	17	23	604	16	159	2.6	9.7	11
3	8.8	5.1	e6.8	14	13	23	183	15	45	2.7	7.6	7.5
4	8.0	e5.2	e6.7	27	11	97	124	14	24	4.6	5.9	5.6
5	7.5	e5.3	e6.5	12	14	110	92	13	17	9.7	6.7	6.1
6	6.7	e5.4	e6.2	12	13	79	77	13	17	7.0	4.1	4.5
7	5.8	e5.4	e6.1	10	14	51	66	12	24	3.3	4.5	4.0
8	5.5	e5.5	e6.0	11	14	38	58	9.1	18	14	3.1	3.8
9	4.7	e5.5	e5.9	12	14	34	52	9.8	13	32	2.9	3.5
10	4.6	e5.6	e5.8	10	15	30	47	11	11	23	2.3	3.1
11	4.7	e5.7	e5.7	9.9	17	27	42	11	9.3	7.4	11	2.9
12	4.9	e5.7	e5.5	9.5	16	25	38	10	7.7	4.4	68	2.7
13	6.3	e6.0	e5.4	11	24	27	37	10	11	3.4	15	2.8
14	6.4	e10	e5.3	10	29	24	36	8.1	42	3.5	9.4	2.6
15	6.3	e16	e5.2	9.0	26	31	32	8.6	27	3.0	7.9	3.2
16	5.4	e12	e7.0	8.5	27	57	31	55	16	2.3	5.9	3.1
17	5.7	e8.0	407	6.9	623	40	28	33	11	1.5	5.1	2.7
18	5.7	e6.0	61	9.4	167	32	31	22	7.8	4.2	5.5	2.4
19	5.4	e6.2	31	14	78	25	27	17	5.6	11	12	2.5
20	5.4	e6.4	25	125	52	39	26	14	5.0	5.3	8.0	3.9
21	5.6	e6.5	20	75	39	731	25	12	4.2	4.2	5.8	28
22	5.8	e7.5	17	39	34	210	24	13	5.8	3.6	4.5	10
23	4.7	e12	15	32	35	105	23	15	11	2.3	3.2	7.5
24	4.7	e20	14	27	40	72	21	11	9.5	7.7	2.6	24
25	9.7	e30	13	23	35	55	43	9.9	6.6	6.7	4.8	11
26	8.9	e38	12	19	37	45	38	22	6.0	18	4.9	7.3
27	10	e19	11	19	31	38	25	21	7.0	195	3.3	5.9
28	10	e10	12	17	27	32	22	16	4.7	36	4.9	5.6
29	10	e8.4	11	15	---	266	19	16	3.6	30	4.9	4.8
30	13	e7.0	13	21	---	1190	18	13	3.5	48	5.0	4.4
31	8.2	---	12	22	---	300	---	9.4	---	26	5.3	---
TOTAL	221.4	295.1	772.0	651.1	1481	3881	2806	475.9	717.3	525.3	259.8	194.2
MEAN	7.14	9.84	24.9	21.0	52.9	125	93.5	15.4	23.9	16.9	8.38	6.47
MAX	13	38	407	125	623	1190	917	55	185	195	68	28
MIN	4.6	5.1	5.2	6.9	11	23	18	8.1	3.5	1.5	2.3	2.4
CFSM	.11	.15	.38	.32	.80	1.90	1.42	.23	.36	.26	.13	.10
IN.	.12	.17	.44	.37	.83	2.19	1.58	.27	.40	.30	.15	.11

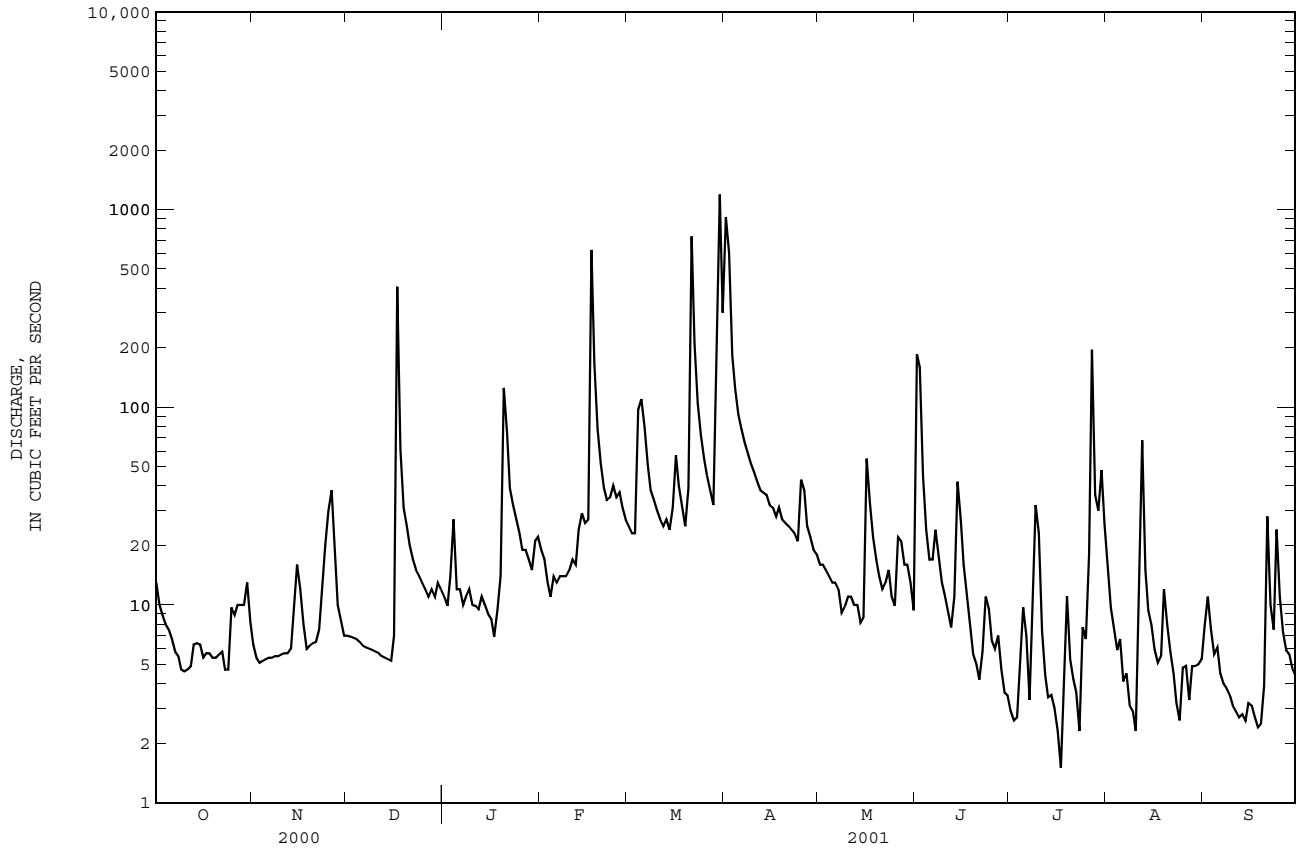
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2001,@ BY WATER YEAR (WY)

MEAN	28.7	43.7	54.8	91.5	112	120	94.3	50.5	38.0	37.4	32.1	37.4
MAX	181	213	166	326	311	354	264	165	210	359	256	342
(WY)	1930	1986	1946	1936	1998	1998	1936	1931	1995	1938	1939	1945
MIN	.63	.82	3.64	5.16	21.7	29.9	14.8	9.67	1.75	1.28	.85	.28
(WY)	1987	1942	1942	1942	1931	1988	1995	1986	1986	1986	1987	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1928 - 2001@	
ANNUAL TOTAL	21463.6		12280.1			
ANNUAL MEAN	58.6		33.6		61.4	
HIGHEST ANNUAL MEAN					108	1960
LOWEST ANNUAL MEAN					26.3	1988
HIGHEST DAILY MEAN	1430	Mar 17	1190	Mar 30	4600	Sep 6 1996
LOWEST DAILY MEAN	3.8	Aug 22	1.5	Jul 17	.02	Jul 10 1986
ANNUAL SEVEN-DAY MINIMUM	4.8	Aug 20	2.8	Sep 13	.10	Oct 6 1954
MAXIMUM PEAK FLOW			2200	Mar 30	10800	Sep 6 1996
MAXIMUM PEAK STAGE			12.95	Mar 30	21.13*	Sep 6 1996
INSTANTANEOUS LOW FLOW			1.1	Jul 17	.01	Jul 10 1986
ANNUAL RUNOFF (CFSM)	.89		.51		.93	
ANNUAL RUNOFF (INCHES)	12.10		6.92		12.64	
10 PERCENT EXCEEDS	139		47		116	
50 PERCENT EXCEEDS	22		11		26	
90 PERCENT EXCEEDS	5.6		4.2		4.2	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT													
24...	1020	4.9	116	6.5	12.7	20	761	7.6	72	40	9.85	3.78	6.5
DEC													
19...	0945	32	85	6.5	5.8	180	747	11.3	92	26	6.11	2.58	4.2
FEB													
22...	0930	31	83	6.4	6.9	80	762	10.5	86	28	6.62	2.70	4.9
MAR													
21...	0915	1020	62	6.1	7.9	250	743	10.5	91	19	4.32	1.88	3.3
APR													
12...	1135	38	77	6.3	20.1	25	755	8.1	90	27	6.41	2.67	4.8
JUN													
15...	1030	27	91	6.5	23.2	100	755	6.4	75	30	7.19	2.85	5.4
22...	1115	3.6	110	6.9	24.5	35	754	5.6	68	37	8.82	3.56	6.3
AUG													
27...	0915	3.2	108	7.0	23.3	12	755	5.8	69	38	9.27	3.51	6.0

DATE	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
24...	25	.4	1.72	63	52	5.1	6.5	<.2	13.4	69	.001	.119	<.002
DEC													
19...	23	.4	3.53	37	30	5.7	6.0	<.2	10.2	71	.006	.543	.050
FEB													
22...	26	.4	1.59	33	27	6.6	5.6	<.2	10.4	66	.003	.336	.007
MAR													
21...	25	.3	2.40	18	15	6.1	4.8	<.2	7.5	68	.006	.405	.134
APR													
12...	27	.4	1.57	31	25	5.1	5.2	<.2	9.6	84	.002	.178	.002
JUN													
15...	27	.4	1.64	40	33	4.4	5.3	E.1	10.7	74	.007	.317	.082
22...	26	.5	1.84	41	33	5.2	6.5	E.1	11.8	62	.004	.294	.046
AUG													
27...	25	.4	1.82	42	34	6.3	4.8	<.2	10.5	76	.002	.157	.037

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
OCT													
24...	--	.22	.33	<.060	<.007	51	<2	<.11	<1	<2	3.5	500	<1
DEC													
19...	.66	.71	1.3	.129	.026	--	--	--	--	--	--	--	--
FEB													
22...	.52	.53	.87	.061	<.007	--	--	--	--	--	--	--	--
MAR													
21...	.92	1.0	1.5	.207	.031	1210	<2	<.11	2	E2	9.5	2530	4
APR													
12...	.33	.33	.51	E.032	E.004	165	<2	.35	<1	<2	E1.5	770	<1
JUN													
15...	.56	.64	.96	.090	.007	1050	<2	<.10	M	E2	4.1	2040	2
22...	.34	.39	.68	--	E.006	--	--	--	--	--	--	--	--
AUG													
27...	.33	.37	.53	E.030	<.007	--	--	--	--	--	--	--	--

02085000 ENO RIVER AT HILLSBOROUGH, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
OCT										
24...	72	<.14	<1.5	<2	<2.6	<.43	<31	3.5	6	.08
DEC										
19...	--	--	--	--	--	--	--	11	42	3.6
FEB										
22...	--	--	--	--	--	--	--	6.4	15	1.3
MAR										
21...	472	<.14	<1.5	E2	<2.6	<.43	<31	15	143	393
APR										
12...	102	<.14	<1.5	<2	<2.6	<.43	<31	4.9	7	.72
JUN										
15...	236	--	<1.5	<2	<3.0	<.40	<31	7.1	89	6.5
22...	--	--	--	--	--	--	--	5.5	25	.25
AUG										
27...	--	--	--	--	--	--	--	5.3	4	.04

02085070 ENO RIVER NEAR DURHAM, NC

LOCATION.--Lat 36°04'20", long 78°54'30", 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 sea level, 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 good 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	e9.7	10	23	39	62	1640	40	269	11	53	35
2	28	e9.8	9.3	23	35	58	1420	39	547	10	40	27
3	26	e9.6	8.8	19	33	58	508	38	117	9.2	32	27
4	24	e9.5	9.2	24	30	160	313	35	70	10	27	21
5	20	e9.6	8.5	33	31	247	202	33	54	19	22	17
6	18	e10	7.8	24	32	176	156	32	49	31	20	13
7	15	e10	7.1	23	30	114	131	30	58	22	18	12
8	14	e10	7.7	22	30	90	115	28	53	22	14	9.7
9	12	e10	7.3	24	30	79	102	29	44	34	14	29
10	11	e11	7.1	24	31	72	93	31	38	67	16	32
11	12	e11	6.8	22	31	66	85	31	33	39	54	15
12	12	e11	6.8	21	34	63	80	28	31	24	104	12
13	11	e13	6.5	20	41	63	75	26	30	16	64	8.1
14	11	e18	6.9	21	51	62	73	24	52	12	40	6.8
15	13	e26	6.9	22	53	66	67	24	82	11	30	6.6
16	13	e22	8.2	21	52	95	64	63	54	9.6	e25	e6.2
17	13	e16	452	20	1010	89	63	80	42	8.4	e18	e6.0
18	12	e14	150	22	422	74	64	51	e33	8.3	16	e5.9
19	11	e15	65	27	163	66	59	43	27	13	17	e5.8
20	11	e15	54	201	109	95	55	36	21	22	27	e5.5
21	11	e13	45	187	87	1470	53	32	19	16	22	e205
22	e10	e15	38	83	78	571	52	31	45	10	15	e80
23	e9.7	e22	33	60	77	254	52	32	83	8.6	12	e35
24	e9.6	38	30	51	84	155	49	32	41	11	12	e48
25	e9.4	55	28	46	82	120	69	28	33	12	8.8	e69
26	e9.3	62	25	40	81	101	85	87	28	29	7.2	e37
27	e9.4	30	26	36	74	89	59	72	24	596	20	e26
28	e9.3	17	24	35	66	80	49	47	20	137	19	e22
29	e9.2	13	25	33	---	621	46	42	17	98	9.4	e20
30	e9.1	11	23	35	---	2950	42	37	14	133	44	e18
31	e9.0	---	22	41	---	789	---	32	---	78	42	---
TOTAL	422.0	536.2	1164.9	1283	2916	9055	5921	1213	2028	1527.1	862.4	860.6
MEAN	13.6	17.9	37.6	41.4	104	292	197	39.1	67.6	49.3	27.8	28.7
MAX	30	62	452	201	1010	2950	1640	87	547	596	104	205
MIN	9.0	9.5	6.5	19	30	58	42	24	14	8.3	7.2	5.5
CFSM	.10	.13	.27	.29	.74	2.07	1.40	.28	.48	.35	.20	.20
IN.	.11	.14	.31	.34	.77	2.39	1.56	.32	.54	.40	.23	.23

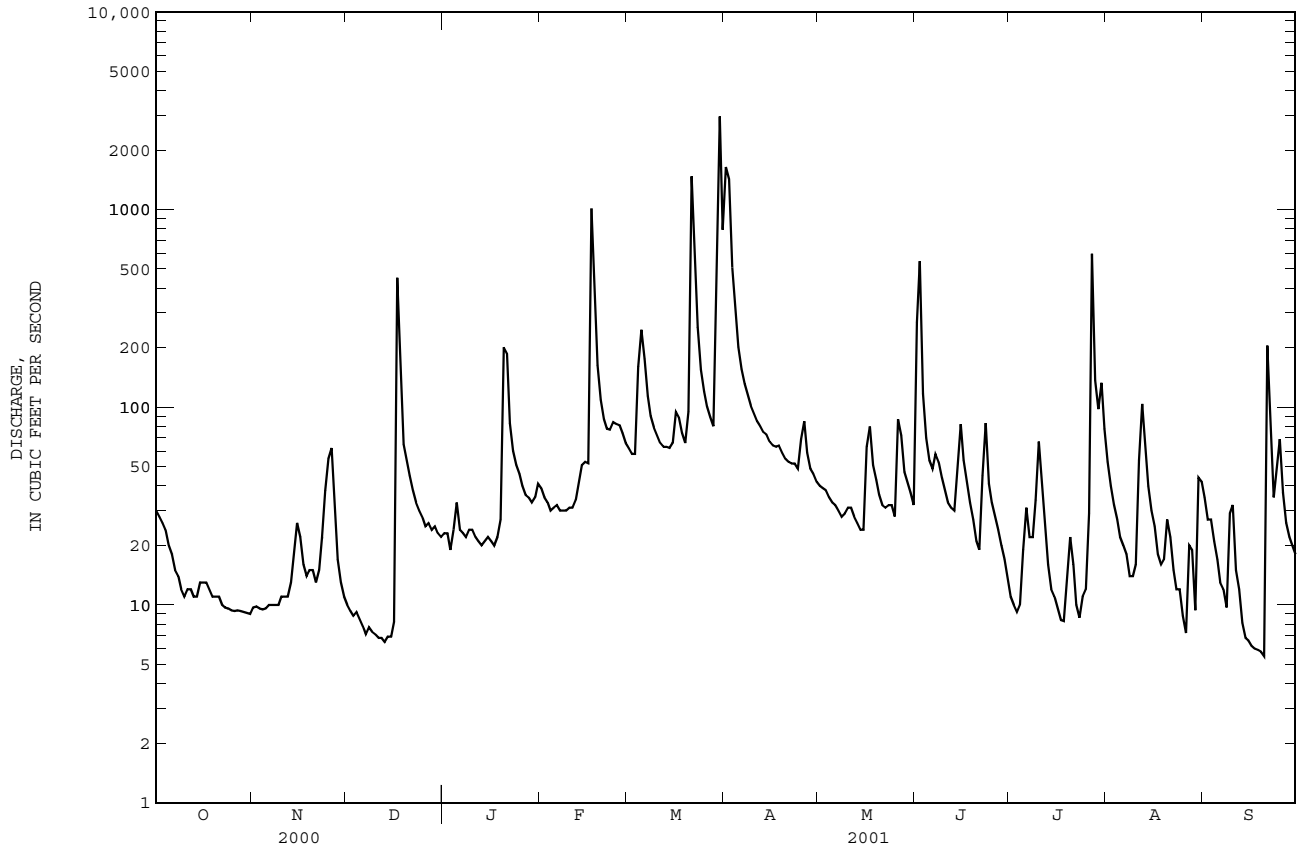
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2001, BY WATER YEAR (WY)

MEAN	57.7	75.5	106	205	249	282	185	121	87.7	70.7	50.8	71.2
MAX	456	462	406	517	638	767	424	429	411	452	282	606
(WY)	1972	1986	1973	1998	1998	1998	1983	1978	1982	1975	1985	1999
MIN	4.77	8.98	19.4	21.4	64.7	67.4	34.9	26.1	6.86	6.35	3.34	.84
(WY)	1964	1999	1995	1981	1968	1988	1995	1986	1986	1977	1977	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1963 - 2001	
ANNUAL TOTAL	43411.1		27789.2			
ANNUAL MEAN	119		76.1		130	
HIGHEST ANNUAL MEAN					244	1973
LOWEST ANNUAL MEAN					60.4	1977
HIGHEST DAILY MEAN	3950	Jul 24	2950	Mar 30	9900	Sep 6 1996
LOWEST DAILY MEAN	6.5	Dec 13	5.5	Sep 20	.08	Aug 14 1977
ANNUAL SEVEN-DAY MINIMUM	6.9	Dec 9	6.1	Sep 14	.20	Aug 8 1977
MAXIMUM PEAK FLOW			5010	Mar 30	14700	Sep 6 1996
MAXIMUM PEAK STAGE			13.14	Mar 30	23.58*	Sep 6 1996
INSTANTANEOUS LOW FLOW			4.5	Oct 18	.06*	Aug 14 1977
ANNUAL RUNOFF (CFSM)	.84		.54		.92	
ANNUAL RUNOFF (INCHES)	11.45		7.33		12.49	
10 PERCENT EXCEEDS	289		103		262	
50 PERCENT EXCEEDS	47		30		52	
90 PERCENT EXCEEDS	11		9.4		7.1	

e Estimated.
* See REMARKS.

02085070 ENO RIVER NEAR DURHAM, NC--Continued



0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC

LOCATION.--Lat 36°08'30", long 78°55'10", Durham County, Hydrologic Unit 03020201, on left bank, 80 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 sea level, 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. Minimum discharge for period of record, no flow, also occurred Aug. 19-29, 1988.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.1	2.2	2.7	e9.8	23	39	963	26	93	10	46	4.5
2	7.6	2.0	2.6	9.0	20	35	782	26	305	11	28	4.6
3	8.0	1.6	2.4	e9.1	19	34	252	25	80	11	20	4.2
4	7.5	1.9	e2.3	e9.7	18	108	171	24	45	12	16	3.6
5	6.4	1.9	e2.3	e9.1	20	198	122	22	32	30	15	3.3
6	5.0	1.5	2.5	9.1	21	142	96	21	28	29	13	3.2
7	4.3	1.9	2.3	e9.4	20	84	81	19	27	17	13	2.9
8	4.1	1.9	2.4	9.7	19	63	71	18	27	13	13	2.5
9	3.4	1.8	2.4	10	18	54	63	18	24	12	10	2.2
10	3.2	1.9	2.4	e11	18	47	56	18	21	18	9.7	5.0
11	3.0	1.8	2.3	9.5	18	42	54	18	20	22	e10	4.1
12	3.1	1.7	2.3	9.1	18	38	50	18	21	14	e72	3.0
13	3.1	2.3	2.3	8.7	22	39	49	16	23	12	e29	2.1
14	2.9	2.5	2.2	8.6	34	38	e46	14	43	9.8	e14	1.6
15	2.8	2.6	2.2	8.9	40	40	e43	13	50	8.1	11	1.2
16	2.6	3.7	2.7	9.1	41	76	e40	28	32	6.8	e8.6	1.0
17	2.3	5.5	239	9.5	621	67	37	37	27	6.4	8.0	.95
18	2.2	2.2	83	9.0	220	52	40	26	22	5.7	6.9	.84
19	2.0	2.1	36	13	107	43	35	21	19	5.6	6.1	.70
20	2.0	2.5	e27	151	72	46	32	17	16	4.9	6.3	.56
21	1.7	2.7	e21	129	59	e998	31	15	15	4.4	5.8	143
22	1.6	e2.4	17	61	52	367	30	15	14	3.9	5.2	62
23	1.3	2.4	e14	41	e50	181	30	15	21	3.4	5.0	21
24	1.4	2.3	e13	34	61	114	29	14	21	3.3	4.8	28
25	1.5	3.2	e13	28	57	86	38	12	17	3.3	4.2	58
26	1.6	9.6	e13	e24	57	71	50	32	15	4.6	3.5	22
27	1.7	10	11	21	52	61	36	34	13	465	3.6	13
28	1.8	6.2	11	20	43	54	33	22	12	129	4.0	8.4
29	1.9	4.1	e11	18	---	408	30	18	11	62	3.3	5.5
30	1.8	3.2	e11	19	---	1930	27	16	9.8	202	3.3	3.6
31	1.9	---	e11	23	---	367	---	13	---	94	3.7	---
TOTAL	101.8	91.6	569.3	750.3	1820	5922	3417	631	1103.8	1233.2	402.0	416.55
MEAN	3.28	3.05	18.4	24.2	65.0	191	114	20.4	36.8	39.8	13.0	13.9
MAX	8.1	10	239	151	621	1930	963	37	305	465	72	143
MIN	1.3	1.5	2.2	8.6	18	34	27	12	9.8	3.3	3.3	.56
CFSM	.04	.04	.23	.31	.83	2.44	1.46	.26	.47	.51	.17	.18
IN.	.05	.04	.27	.36	.87	2.82	1.63	.30	.53	.59	.19	.20

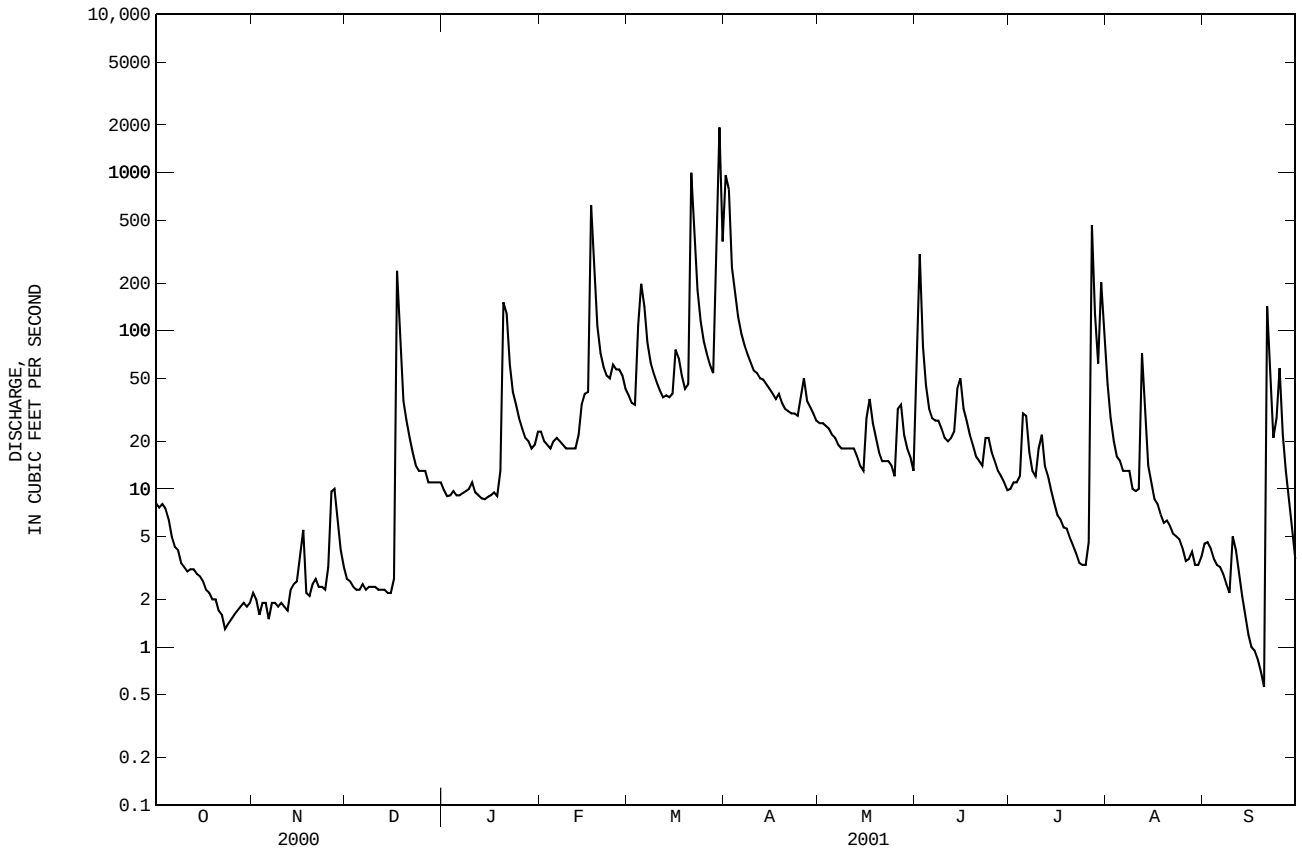
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001, BY WATER YEAR (WY)

MEAN	31.3	39.3	57.0	132	134	187	112	54.8	38.7	30.3	21.5	52.2
MAX	97.7	120	162	257	379	456	236	165	194	104	114	329
(WY)	1996	1996	1997	1998	1998	1993	1993	1990	1995	1989	1989	1996
MIN	.14	1.33	8.10	24.2	47.7	30.9	17.1	12.2	5.53	1.59	.37	1.27
(WY)	1994	1999	1995	2001	1999	1988	1995	1995	1994	1988	1999	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001	
ANNUAL TOTAL	21249.1		16458.55			
ANNUAL MEAN	58.1		45.1		73.9	
HIGHEST ANNUAL MEAN					115	1998
LOWEST ANNUAL MEAN					30.8	1988
HIGHEST DAILY MEAN	1820	Mar 17	1930	Mar 30	6500	Sep 6 1996
LOWEST DAILY MEAN	1.3	Oct 23	.56	Sep 20	.00	Aug 19 1988
ANNUAL SEVEN-DAY MINIMUM	1.5	Oct 21	.98	Sep 14	.00	Aug 19 1988
MAXIMUM PEAK FLOW			3080	Mar 30	11600*	Sep 6 1996
MAXIMUM PEAK STAGE			6.78	Mar 30	13.26*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.43	Sep 20	.00*	Aug 18 1988
ANNUAL RUNOFF (CFSM)	.74		.58		.94	
ANNUAL RUNOFF (INCHES)	10.11		7.83		12.84	
10 PERCENT EXCEEDS	140		72		150	
50 PERCENT EXCEEDS	22		14		25	
90 PERCENT EXCEEDS	2.3		2.2		1.9	

e Estimated.
* See REMARKS.

0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY, NC--Continued



0208521324 LITTLE RIVER AT SECONDARY ROAD 1461 NEAR ORANGE FACTORY,NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1988-1995, 1999, 2001.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment.

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. Samples 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 National Water Quality Lab. Results may be obtained from the District office in Raleigh, NC.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
MAR													
30...	0945	2480	45	7.1	7.8	180	753	11.2	95	14	3.31	1.46	1.9

DATE	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAR													
30...	20	.2	2.26	6.3	5	5.8	2.7	<.2	5.2	64	.006	.403	.128

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
MAR													
30...	1.2	1.3	1.7	.248	.017	1480	E1	<.11	3	<2	3.8	2470	3

DATE	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR										
30...	343	<.14	<1.5	E1	<2.6	<.43	<31	17	192	1290

Control at Rocky River near Concord, North Carolina.

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC

LOCATION.--Lat 36°08'58", long 78°53'49", 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. Elevation of gage is 370 ft above sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Maximum gage height for period of record from floodmarks. Maximum gage height for period of record occurred Sept. 6, 1996, discharge not determined. Minimum discharge for current water year also occurred on September 17-20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.42	.68	.42	1.0	1.4	78	2.7	14	.22	2.7	.29
2	.92	.43	.65	.44	.89	1.2	44	3.0	11	.28	1.9	.29
3	.72	.39	.68	.38	.78	1.3	16	1.5	3.4	.47	1.1	.23
4	.68	.43	.54	.37	.98	8.8	11	1.1	1.8	.95	.79	.19
5	.70	.41	.44	.52	1.0	11	8.7	1.1	1.3	2.3	.55	.17
6	.52	.40	.46	.44	1.1	6.1	7.2	.82	1.1	.64	.80	.14
7	.43	.42	.50	.41	.85	3.6	5.9	.82	.99	.39	.65	.12
8	.37	.47	.52	.52	.81	2.7	5.4	.71	.83	.33	.40	.10
9	.36	.53	.47	.60	.85	2.2	4.8	.76	.76	.82	.38	.12
10	.38	.63	.46	.48	.96	1.2	4.5	.78	.68	3.9	.34	.21
11	.40	.46	.45	.47	.84	1.3	4.1	.75	.64	.68	1.8	.19
12	.41	.40	.51	.51	.92	.98	3.8	1.5	.57	.53	e4.0	.13
13	.36	.36	.47	.56	2.0	1.4	4.0	.97	2.0	.36	.86	.09
14	.35	.81	.49	.39	2.5	1.5	3.5	.61	3.3	.30	.67	.09
15	.35	.88	.51	.40	2.5	2.0	3.2	.58	1.8	.22	.42	.08
16	.37	.55	.80	.50	3.5	3.3	2.7	2.7	1.0	.19	.27	.07
17	.37	.47	9.0	.47	69	2.1	3.1	2.8	.88	.17	.24	.07
18	.37	.45	4.5	.75	11	1.5	3.2	1.8	.60	.21	.25	.07
19	.36	.48	2.2	1.3	5.8	.98	3.2	1.4	.44	.43	.35	.06
20	.36	.85	2.2	16	3.7	3.9	2.4	1.1	.43	.27	.32	.07
21	.35	.70	1.2	7.9	2.7	106	2.0	1.2	.35	.19	.23	.70
22	.38	.46	1.1	3.1	2.8	38	2.3	1.1	.55	.17	.18	.19
23	.38	.42	.78	1.9	3.0	13	2.3	1.3	2.3	.16	.13	.11
24	.35	.41	.67	1.4	3.4	8.6	1.7	.85	.72	.19	.20	.31
25	.36	1.7	.64	1.1	2.8	6.3	5.4	.70	.53	.19	.16	.79
26	.39	3.7	.78	.82	3.0	5.1	3.9	8.7	.38	.45	.11	.20
27	.40	1.6	.59	.77	1.9	4.2	2.4	4.7	.31	137	.14	.25
28	.42	1.2	.57	.96	1.5	3.6	2.0	2.1	.29	11	.28	.19
29	.44	.96	.55	.57	---	80	2.3	1.7	.26	12	.14	.14
30	.41	.85	.52	1.1	---	167	1.4	1.2	.21	13	.24	.10
31	.42	---	.47	1.2	---	29	---	.99	---	4.8	.31	---
TOTAL	14.18	22.24	34.40	46.75	132.08	519.26	244.4	52.04	53.42	192.81	20.91	5.76
MEAN	.46	.74	1.11	1.51	4.72	16.8	8.15	1.68	1.78	6.22	.67	.19
MAX	1.1	3.7	9.0	16	69	167	78	8.7	14	137	4.0	.79
MIN	.35	.36	.44	.37	.78	.98	1.4	.58	.21	.16	.11	.06
CFSM	.06	.09	.14	.19	.59	2.09	1.02	.21	.22	.78	.08	.02
IN.	.07	.10	.16	.22	.61	2.41	1.14	.24	.25	.90	.10	.03

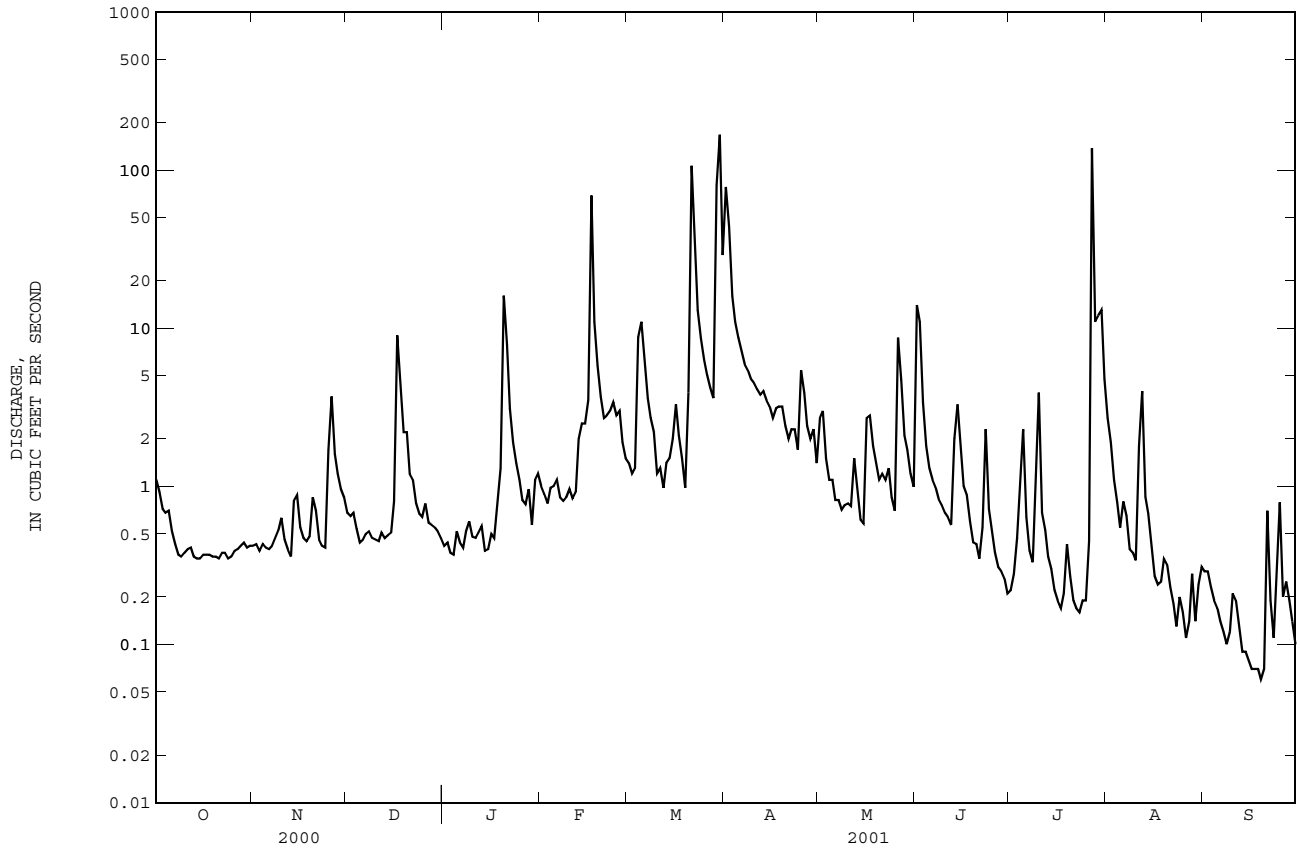
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2001, BY WATER YEAR (WY)

MEAN	2.76	3.41	4.36	12.2	13.9	17.8	10.5	4.36	6.39	2.99	1.17	17.2
MAX	7.88	9.41	12.9	27.3	36.2	49.9	19.4	9.34	29.7	7.40	4.33	74.0
(WY)	2000	1996	1997	1998	1998	1998	2000	1996	1995	1995	1996	1996
MIN	.035	.061	.50	1.51	4.72	6.99	1.50	1.68	.29	.17	.015	.18
(WY)	1999	1999	1995	2001	2001	1999	1995	2001	1999	1999	1999	1995

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1995 - 2001	
ANNUAL TOTAL	2522.97		1338.25			
ANNUAL MEAN	6.89		3.67		8.03	
HIGHEST ANNUAL MEAN					13.1	1996
LOWEST ANNUAL MEAN					3.67	2001
HIGHEST DAILY MEAN	289	Mar 17	167	Mar 30	1000	Sep 6 1996
LOWEST DAILY MEAN	.28	Jul 11	.06	Sep 19	.00	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	.36	Oct 13	.07	Sep 14	.00	Aug 3 1999
INSTANTANEOUS PEAK FLOW			455	Jul 27	NOT DETERMINED*	
MAXIMUM PEAK STAGE			7.40	Jul 27	12.56*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.06*	Sep 16	.00	Aug 3 1999
ANNUAL RUNOFF (CFSM)	.86		.46		1.00	
ANNUAL RUNOFF (INCHES)	11.73		6.22		13.63	
10 PERCENT EXCEEDS	16		4.7		13	
50 PERCENT EXCEEDS	2.0		.72		2.3	
90 PERCENT EXCEEDS	.41		.21		.12	

e Estimated.
* See REMARKS.

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued



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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
19...	1115	.34	126	7.2	15.4	759	9.4	95	--	<.006	<.047	<.041	--
DEC													
06...	1215	.42	134	6.0	3.1	759	13.1	98	--	<.006	.129	<.041	--
JAN													
30...	1350	1.5	122	6.8	9.6	745	11.5	103	--	<.006	.177	<.041	--
FEB													
17...	1535	40	95	6.5	10.6	757	10.3	93	.580	.006	.586	E.040	--
MAR													
21...	1200	66	73	6.4	8.7	745	10.9	95	.517	.007	.524	.215	.73
APR													
28...	1730	1.9	109	7.0	19.4	757	9.1	99	--	E.005	.289	E.030	--
JUN													
09...	1550	.70	113	7.1	22.5	749	8.1	96	--	<.006	.333	<.040	--
JUL													
20...	1305	.30	116	6.3	23.3	755	8.9	106	--	E.005	.279	<.040	--
AUG													
22...	1515	.30	110	7.7	23.3	755	8.2	97	--	<.006	.206	<.040	--
SEP													
25...	0930	.86	97	6.4	18.7	751	7.9	86	--	<.006	.093	<.040	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT													
19...	--	.23	.18	--	--	<.060	<.060	<.018	E18	<2	<.11	<1	<2
DEC													
06...	--	.24	.11	.36	.24	<.060	<.060	<.018	--	--	--	--	--
JAN													
30...	--	.43	.22	.61	.40	E.043	<.060	<.018	109	<2	<.11	<1	<2
FEB													
17...	--	.86	.64	1.4	1.2	.114	<.060	E.013	767	<2	<.11	<1	E1
MAR													
21...	.47	.95	.69	1.5	1.2	.158	E.050	.039	845	<2	<.11	M	<2
APR													
28...	--	.32	.25	.61	.54	<.060	<.060	<.018	--	--	--	--	--
JUN													
09...	--	.28	.25	.61	.59	<.060	<.060	<.020	--	--	--	--	--
JUL													
20...	--	.23	.25	.51	.53	E.035	<.060	<.020	174	<2	<.10	<1	<2
AUG													
22...	--	.28	.25	.49	.45	<.060	<.060	<.020	--	--	--	--	--
SEP													
25...	--	.33	.33	.43	.42	E.043	<.060	E.011	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ENDO-SULFAN I TOTAL (UG/L) (39388)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)
OCT													
19...	<1.8	140	<1	14	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	<1.8	790	<1	80	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--
FEB													
17...	2.3	1700	3	533	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--
MAR													
21...	2.0	1650	3	487	<.14	<1.5	<2	<2.6	<.43	<31	<.015	<.013	<.1
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	E.8	560	M	63	<.01	E.7	<2	<3.0	<.40	<31	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	TOX-APHENE, TOTAL (UG/L) (39400)	DI-AZINON, TOTAL (UG/L) (39570)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	METHYL PARA-THION, TOTAL (UG/L) (39600)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.007	<.006	<.009	<.006	<.014	<.014	<.009	<.006	<1	<.02	<.01	<.03	<.01
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA-THION, TOTAL (UG/L) (39540)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)	PCB, TOTAL (UG/L) (39516)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	MIREX, TOTAL (UG/L) (39755)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.01	<.02	<.1	<.01	<.01	<.13	<.02	<.01	<.02	<.01	<.002	E.002	<.010
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021	<.002	<.009	<.005	<.003
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007	<.006	<.002	<.010	<.006
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.011	<.004	E.002	<.010	<.011	<.023	E.003	<.005	<.016	<.017	<.002	<.009	<.006
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.050	<.041	<.020	<.034	<.004	<.04	<.16	<.10	<.05	<.21	<.20	<.02	<.04
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.15	<.07	<.02	<.29	<.33	<.13	<.42	<.07	<.04	<.05	<.05	<.09	<.06
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
OCT													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.25	<.21	<.06	<.02	<.08	<.13	<.07	<3.60	<.02	<.04	<1.09	<.42	<.09
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524090 MOUNTAIN CREEK AT SECONDARY ROAD 1617 NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT						
19...	--	--	--	--	2	.00
DEC						
06...	--	--	--	--	2	.00
JAN						
30...	--	--	--	--	6	.02
FEB						
17...	--	--	--	--	76	8.2
MAR						
21...	<.09	<.12	<.03	<.07	90	16
APR						
28...	--	--	--	--	4	.02
JUN						
09...	--	--	--	--	8	.02
JUL						
20...	--	--	--	--	9	.01
AUG						
22...	--	--	--	--	3	.00
SEP						
25...	--	--	--	--	--	--

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°06'53", long 78°52'10", 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 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT													
27...	1220	1.0	77	7.0	19.7	13	755	1.00	6.9	76	27	6.58	2.55
27...	1221	10.0	80	6.4	18.8	--	755	--	6.4	70	--	--	--
27...	1222	21.1	242	7.2	10.4	--	755	--	.3	3	--	--	--
APR													
17...	1230	1.0	59	6.9	18.4	50	761	.90	8.2	88	20	4.64	1.95
17...	1235	12.0	65	6.1	8.8	--	761	--	5.1	44	--	--	--
17...	1240	23.0	84	6.1	8.5	--	761	--	.9	8	--	--	--
JUN													
25...	1215	1.0	73	6.6	24.1	20	767	.80	5.9	70	23	5.59	2.27
25...	1220	11.5	76	6.1	18.4	--	767	--	.2	2	--	--	--
25...	1225	23.0	121	6.5	9.2	--	767	--	.3	3	--	--	--
AUG													
23...	1230	1.0	72	6.7	27.7	12	756	.60	4.7	61	23	5.60	2.23
23...	1235	11.0	83	6.6	24.3	--	756	--	.2	3	--	--	--
23...	1240	21.5	223	7.2	11.4	--	756	--	.3	3	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
OCT													
27...	4.8	26	.4	1.80	29	24	3.0	5.3	<.2	9.2	56	.002	.094
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	3.6	26	.4	1.97	16	13	6.0	4.6	<.2	5.0	39	.005	.123
17...	--	--	--	--	--	--	--	--	--	--	--	.004	.316
17...	--	--	--	--	--	--	--	--	--	--	--	.006	.240
JUN													
25...	3.9	25	.4	1.96	23	19	4.8	4.4	E.1	4.2	44	.002	.037
25...	--	--	--	--	--	--	--	--	--	--	--	.003	.072
25...	--	--	--	--	--	--	--	--	--	--	--	.001	.041
AUG													
23...	3.7	24	.3	2.15	26	21	4.0	5.0	<.2	5.7	58	<.001	.006
23...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005
23...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
27...	.016	.38	.39	.49	<.060	<.007	.9	<.1	E25	<2	<.11	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	.006	.49	.50	.62	E.033	<.007	2.3	<.1	165	E1	<.11	<1	<2
17...	.177	.51	.68	1.00	E.051	.015	--	--	--	--	--	--	--
17...	.366	.65	1.0	1.3	.085	.009	--	--	--	--	--	--	--
JUN													
25...	.072	.60	.67	.71	<.060	<.007	9.3	<.1	--	--	--	--	--
25...	.169	.45	.62	.69	<.060	<.007	--	--	--	--	--	--	--
25...	.754	.60	1.4	1.4	.073	.014	--	--	--	--	--	--	--
AUG													
23...	.036	.56	.60	.60	E.054	<.007	3.1	.5	--	--	--	--	--
23...	.133	.39	.53	.53	<.060	<.007	--	--	--	--	--	--	--
23...	.706	.27	.97	.98	<.060	<.007	--	--	--	--	--	--	--

0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
OCT													
27...	<1.8	70	<1	115	<.14	<1.5	<2	<2.6	<.43	<31	6.0	--	--
27...	--	150	--	518	--	--	--	--	--	--	--	--	--
27...	--	50800	--	8740	--	--	--	--	--	--	--	--	--
APR													
17...	1.8	290	<1	19	<.14	<1.5	<2	<2.6	<.43	<31	9.6	--	--
17...	--	540	--	50	--	--	--	--	--	--	--	--	--
17...	--	1420	--	1490	--	--	--	--	--	--	--	--	--
JUN													
25...	--	200	--	223	--	--	--	--	--	--	8.1	<.04	<.06
25...	--	240	--	490	--	--	--	--	--	--	--	--	--
25...	--	3210	--	4580	--	--	--	--	--	--	--	--	--
AUG													
23...	--	130	--	462	--	--	--	--	--	--	7.9	--	--
23...	--	120	--	1540	--	--	--	--	--	--	--	--	--
23...	--	500	--	7320	--	--	--	--	--	--	--	--	--

DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	STYRENE TOTAL (UG/L) (77128)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.06	E.01	<.2	<.1	<.02	<.2	<.09	<.05	<.3	<.03	<.3	<.2	<.04
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.1	<.05	<.09	<.04	<.09	<.1	<.04	<.04	<.03	<.06	<.09	<.03	<.1
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
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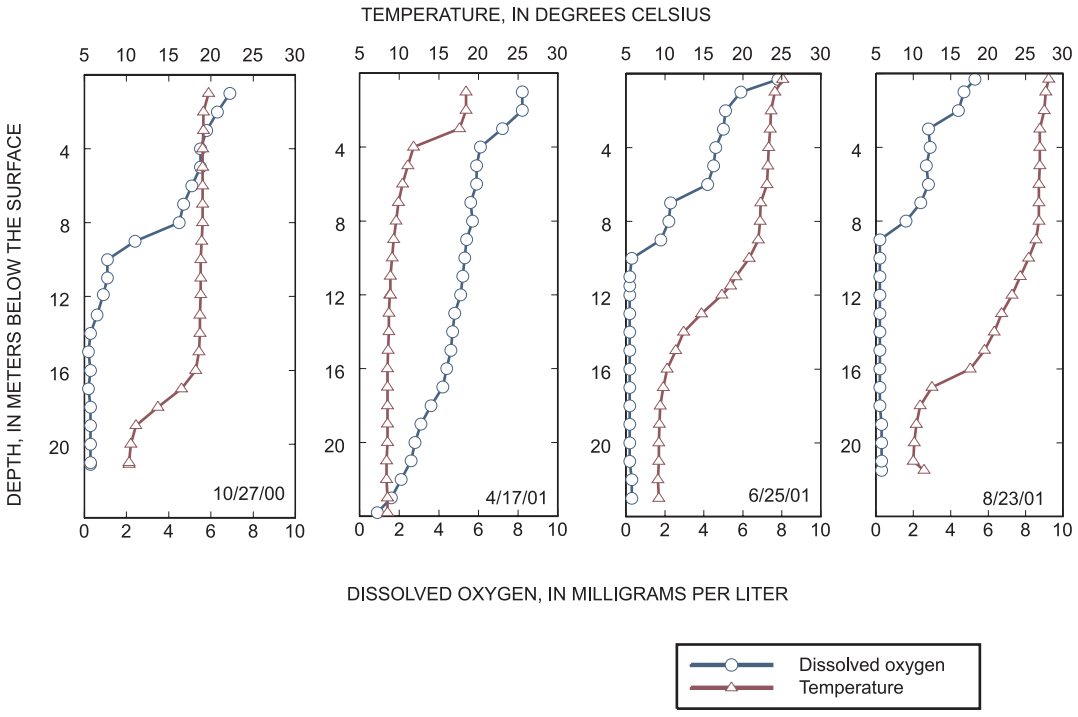
0208524845 LITTLE RIVER RESERVOIR AT DAM NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	<.011	E.004	E.002	<.018
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--



0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'56", 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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
18...	1410	.12	219	7.1	17.9	755	8.4	90	--	<.006	<.047	<.041	--
DEC													
07...	1130	.05	248	6.7	3.8	755	11.4	87	--	<.006	E.042	E.034	--
JAN													
30...	1235	.65	207	6.5	10.1	746	10.1	92	--	E.003	.164	E.021	--
FEB													
17...	1315	3.5	118	6.5	11.4	758	9.8	90	--	E.003	.426	E.023	--
MAR													
21...	0950	6.5	94	6.6	9.2	748	10.5	93	--	E.003	.313	E.021	--
APR													
28...	1215	.16	199	6.6	16.0	760	9.8	100	--	E.004	.086	.060	.27
JUN													
09...	1045	.10	197	6.5	19.8	753	7.7	85	.230	.006	.236	E.033	--
JUL													
20...	1130	<.01	94	6.2	21.5	758	7.2	83	--	E.005	.069	E.030	--
AUG													
22...	1400	.69	218	7.3	24.2	758	7.8	94	--	<.006	.083	<.040	--
SEP													
25...	1030	.24	212	6.6	18.9	751	7.7	84	.534	.008	.542	E.028	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT													
18...	--	.20	.16	--	--	<.060	<.060	<.018	65	<2	<.11	<1	<2
DEC													
07...	--	.21	.15	--	--	<.060	<.060	<.018	--	--	--	--	--
JAN													
30...	--	.41	.29	.57	.46	E.044	E.040	E.012	189	<2	<.11	<1	<2
FEB													
17...	--	.75	.46	1.2	.89	.147	.096	.067	593	E1	<.11	M	<2
MAR													
21...	--	.70	.52	1.0	.84	.111	.069	.063	627	<2	<.11	M	<2
APR													
28...	.22	.33	.28	.42	.36	<.060	<.060	<.018	--	--	--	--	--
JUN													
09...	--	.30	.31	.53	.54	<.060	<.060	<.020	--	--	--	--	--
JUL													
20...	--	.33	.33	.40	.40	<.060	<.060	<.020	95	E2	<.10	<1	<2
AUG													
22...	--	.52	.45	.61	.53	.067	<.060	.024	--	--	--	--	--
SEP													
25...	--	.70	.61	1.2	1.1	.145	.072	.065	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ENDO-SULFAN I TOTAL (UG/L) (39388)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)
OCT													
18...	<1.8	480	<1	64	<.14	E.8	<2	<2.6	<.43	<31	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	2.5	700	<1	325	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--
FEB													
17...	3.2	790	1	126	<.14	<1.5	<2	<2.6	<.43	36	--	--	--
MAR													
21...	3.3	700	1	122	<.14	<1.5	<2	<2.6	<.43	E17	<.015	<.013	<.1
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	3.2	840	<1	209	<.01	<1.5	--	<3.0	<.40	<31	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	TOX-APHENE, TOTAL (UG/L) (39400)	DI-AZINON, TOTAL (UG/L) (39570)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	METHYL PARA-THION, TOTAL (UG/L) (39600)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.007	<.006	<.009	<.006	<.014	<.014	<.009	<.006	<1	<.02	<.01	<.03	<.01
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PARA-THION, TOTAL (UG/L) (39540)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)	PCB, TOTAL (UG/L) (39516)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	MIREX, TOTAL (UG/L) (39755)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.01	<.02	<.1	<.01	<.01	<.13	<.02	<.01	<.02	<.01	<.002	E.003	<.010
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.002	E.023	<.018	<.003	<.003	<.005	<.005	<.002	<.021	<.002	<.009	<.005	<.003
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007	<.006	<.002	.558	<.006
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.011	<.004	E.004	<.010	<.011	<.023	1.80	<.005	<.016	<.017	<.002	<.009	<.006
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.050	<.041	<.020	<.034	<.004	<.04	.96	<.10	<.05	<.23	<.31	<.13	<.04
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<10.7	<.07	<.02	<.29	<.69	<.13	<.42	<.07	<.04	<.05	<.05	<.09	<.06
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.25	<.41	<.42	<.02	.16	<.13	<.07	<2.19	<.02	<.13	<1.13	<.23	<.26
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208524950 LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)	SILVEX, DIS-SOLVED (UG/L) (39762)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT						
18...	--	--	--	--	5	.00
DEC						
07...	--	--	--	--	5	.00
JAN						
30...	--	--	--	--	11	.02
FEB						
17...	--	--	--	--	54	.52
MAR						
21...	<.09	<.12	<.03	<.22	37	.65
APR						
28...	--	--	--	--	7	.00
JUN						
09...	--	--	--	--	9	.00
JUL						
20...	--	--	--	--	6	--
AUG						
22...	--	--	--	--	21	.04
SEP						
25...	--	--	--	--	--	--

USGS hydrographer making a wading discharge measurement at Neuse River near Falls.

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC

LOCATION.--Lat 36°06'46", 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 sea level, from topographic map.

REMARKS.--Records 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 water year not determined due to the effects of beaver dams on the gage height-discharge relationship.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	e2.0	e1.0	e1.0	.73	12	1030	4.7	20	2.4	1.8	1.5
2	2.1	e2.0	e1.0	e1.0	.74	9.9	1240	4.9	4.1	3.3	1.6	1.4
3	1.8	e2.0	e1.0	e1.0	.68	12	299	5.1	2.9	2.9	1.8	1.7
4	1.9	e2.0	e1.0	e1.0	.73	32	159	5.2	2.8	3.7	1.6	2.2
5	2.1	e2.0	e1.0	e1.2	1.1	24	93	5.2	3.1	4.6	1.8	82
6	2.3	e2.0	e1.0	e1.0	1.1	14	70	5.5	3.2	3.5	2.3	157
7	4.5	e2.0	e1.0	e1.0	1.2	9.7	52	5.8	1.8	3.6	2.7	211
8	3.7	e2.0	e1.0	e1.0	1.3	6.8	38	6.6	2.1	4.1	3.2	184
9	3.1	e2.0	e1.0	e1.0	1.3	5.1	38	6.4	2.8	4.6	2.7	65
10	2.1	e2.0	e1.0	e1.0	1.5	3.8	28	6.2	3.3	5.6	4.5	12
11	3.0	e2.0	e1.0	e1.1	1.4	3.4	18	6.0	3.1	5.1	8.1	3.3
12	2.3	e2.0	e1.0	e1.2	1.8	3.5	17	6.2	2.8	6.0	3.6	2.0
13	2.3	e2.0	e1.0	e1.2	4.0	3.8	20	6.6	2.0	5.2	2.3	2.6
14	2.3	e2.3	e1.0	e1.0	2.8	3.1	14	6.7	2.6	4.0	1.6	2.9
15	2.2	e2.5	e1.0	e1.0	2.4	5.6	16	7.0	1.8	3.4	1.8	38
16	1.6	e2.0	e1.5	e1.1	3.2	7.1	16	8.7	2.0	2.9	1.8	76
17	1.7	e2.0	e2.0	e1.0	26	3.0	8.7	7.6	2.2	2.7	2.2	75
18	e2.3	e2.0	e1.5	e1.5	2.1	1.0	13	7.0	1.8	3.3	2.3	75
19	e2.3	e2.0	e1.2	e2.8	3.7	5.6	6.5	6.9	1.6	2.4	2.0	74
20	e2.3	e2.0	e1.0	e5.0	4.8	40	4.9	7.1	1.5	1.6	2.1	74
21	e2.3	e2.0	e1.0	1.2	5.2	53	4.7	7.5	2.0	2.0	2.2	77
22	e2.3	e2.0	e1.0	.96	8.5	13	6.0	7.0	4.8	3.1	2.8	80
23	e2.3	e2.0	e1.0	.88	13	7.7	5.1	7.1	4.3	3.1	2.9	80
24	e2.3	e2.0	e1.0	.90	12	7.2	6.0	7.5	2.4	2.9	3.6	83
25	e2.3	e2.5	e1.0	.86	11	8.9	8.8	6.9	2.5	2.3	3.1	81
26	e2.3	e2.5	e1.0	.87	12	8.7	6.1	10	2.4	4.7	2.8	75
27	e2.3	e2.2	e1.0	.73	12	8.6	6.2	6.9	2.3	35	5.2	15
28	e2.3	e1.9	e1.0	.53	14	8.1	5.6	7.2	2.2	1.6	2.4	38
29	e2.3	e1.5	e1.0	.43	---	267	4.2	7.0	2.1	3.3	3.8	82
30	e2.3	e1.4	e1.0	.59	---	3960	4.4	6.8	1.9	2.7	39	50
31	e2.0	---	e1.0	.72	---	505	---	6.6	---	1.8	3.2	---
TOTAL	73.1	60.8	33.2	35.77	150.28	5052.6	3238.2	205.9	94.4	137.4	122.8	1801.6
MEAN	2.36	2.03	1.07	1.15	5.37	163	108	6.64	3.15	4.43	3.96	60.1
MAX	4.5	2.5	2.0	5.0	26	3960	1240	10	20	35	39	211
MIN	1.6	1.4	1.0	.43	.68	1.0	4.2	4.7	1.5	1.6	1.6	1.4

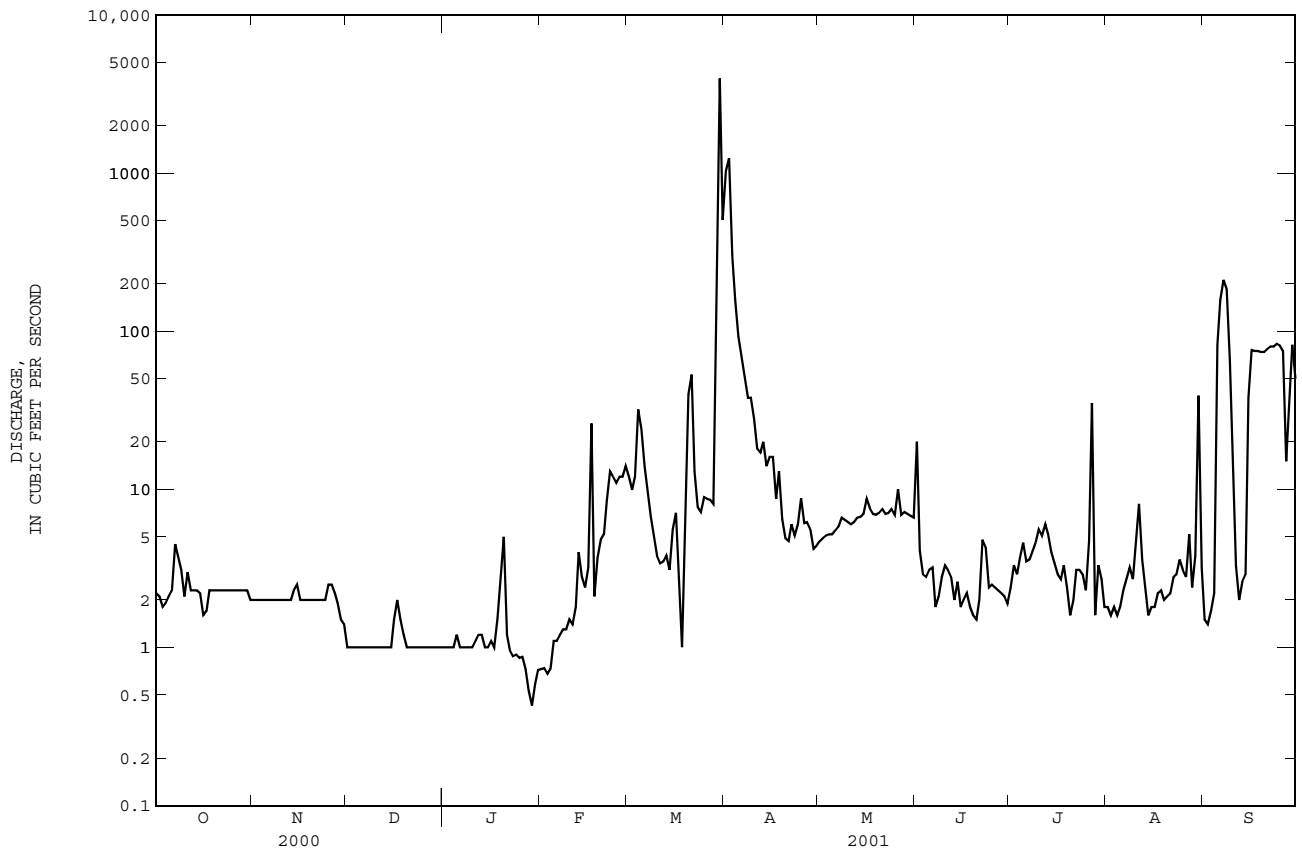
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	15.6	36.9	61.3	119	173	233	137	33.3	9.71	4.04	7.84	178
MAX	36.0	149	161	333	509	705	221	88.4	23.8	4.88	29.4	538
(WY)	1997	1996	1996	1998	1998	1998	1997	1996	1997	1996	1996	1996
MIN	2.02	2.03	1.07	1.15	5.37	61.5	77.5	6.64	2.68	2.64	2.35	3.07
(WY)	1998	2001	2001	2001	2001	1999	1999	2001	2000	1999	1999	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	20195.2		11006.05			
ANNUAL MEAN	55.2		30.2		76.0	
HIGHEST ANNUAL MEAN					144	1998
LOWEST ANNUAL MEAN					30.2	2001
HIGHEST DAILY MEAN	3290	Mar 17	3960	Mar 30	10300	Sep 6 1996
LOWEST DAILY MEAN	1.0	Dec 1	.43	Jan 29	.41	Nov 22 1998
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 1	.63	Jan 28	.62	Nov 18 1998
MAXIMUM PEAK FLOW			6310	Mar 30	16600*	Sep 6 1996
MAXIMUM PEAK STAGE			12.86	Mar 30	17.27*	Sep 6 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		1.2	Oct 9 1999
10 PERCENT EXCEEDS	149		33		135	
50 PERCENT EXCEEDS	3.2		2.7		7.3	
90 PERCENT EXCEEDS	1.7		1.0		2.0	

e Estimated.
* See REMARKS.

0208524975 LITTLE RIVER BELOW LITTLE RIVER TRIBUTARY AT FAIRNTOSH, NC--Continued



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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
18...	1200	2.3	95	6.7	18.5	757	7.7	82	.091	.008	.099	<.041	--
DEC													
07...	1310	1.1	103	6.9	4.9	755	10.7	84	--	<.006	.157	<.041	--
JAN													
31...	1140	.99	129	6.8	8.6	750	10.7	93	--	<.006	.110	<.041	--
FEB													
18...	0935	2.7	119	6.1	7.0	769	10	81	--	E.004	.383	E.030	--
MAR													
22...	1215	11	94	6.5	11.3	750	9.9	92	--	E.004	.321	<.041	--
APR													
28...	1410	6.6	75	6.6	14.2	759	10.8	105	.271	.006	.277	.078	.52
JUN													
09...	1245	3.3	89	6.6	23.9	753	7.6	91	.170	.007	.177	.099	.67
JUL													
19...	1430	2.0	82	6.4	26.5	757	6.9	87	--	E.005	E.031	<.040	--
AUG													
22...	1315	3.0	79	7.0	29.0	768	7.3	94	--	E.003	E.044	E.032	--
SEP													
25...	1415	82	74	6.4	23.7	751	5.5	66	.035	.057	.092	.051	.41

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT										
18...	--	.38	.26	.47	.36	<.060	<.060	<.018	13	.08
DEC										
07...	--	.30	.20	.46	.35	<.060	<.060	<.018	5	.01
JAN										
31...	--	.45	.31	.56	.42	E.032	<.060	<.018	9	.02
FEB										
18...	--	.69	.44	1.1	.82	.147	.092	.068	22	.16
MAR										
22...	--	.58	.43	.91	.76	.072	E.045	.042	20	.59
APR										
28...	.36	.60	.44	.88	.72	<.060	<.060	<.018	7	.12
JUN										
09...	.54	.77	.64	.95	.81	E.034	<.060	<.020	10	.09
JUL										
19...	--	.44	.43	--	--	<.060	<.060	<.020	8	.04
AUG										
22...	--	.49	.35	--	--	E.030	<.060	<.020	12	.10
SEP										
25...	.30	.46	.35	.55	.44	E.032	<.060	<.020	--	--

Gaging station at Neuse River at Kinston, North Carolina.

02085500 FLAT RIVER AT BAHAMA, NC

LOCATION.--Lat 36°10'57", 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 sea level. Prior to Oct. 22, 1925, nonrecording gage at present site at 346.27 ft. Satellite telemetry at station.

REMARKS.--Records good except for estimated daily discharges, which are 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. Minimum discharge for current water year also occurred on Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	e7.9	e8.5	18	38	54	1570	36	36	11	62	21
2	15	e8.0	e8.0	17	32	49	1580	35	426	9.9	42	13
3	14	e7.9	e7.3	15	28	47	459	34	101	9.0	32	11
4	12	e7.7	e7.9	15	29	109	313	32	54	9.6	26	9.7
5	11	e7.6	e7.2	15	28	270	220	31	38	12	21	8.6
6	11	e8.0	e6.5	15	30	215	174	29	35	19	19	7.9
7	9.8	e8.0	e5.9	15	33	120	148	27	40	16	18	7.1
8	9.9	e8.0	e6.6	17	29	89	126	25	81	12	16	6.6
9	9.1	e8.0	e6.1	18	26	76	109	25	51	11	14	6.3
10	9.1	e8.5	e6.0	20	26	66	96	25	35	43	13	6.4
11	8.3	e8.5	e5.9	18	25	60	86	24	28	42	15	7.3
12	8.6	e8.5	e5.8	17	25	56	79	24	25	21	62	6.0
13	8.6	e11	e5.7	16	28	55	76	22	26	14	42	5.7
14	8.8	e17	e5.9	16	48	55	72	20	33	12	24	5.4
15	9.5	e25	e6.0	17	67	55	66	19	62	9.6	18	4.5
16	9.8	e22	e8.0	17	63	149	61	27	43	8.5	14	4.0
17	10	e14	415	16	894	120	58	43	40	7.6	12	3.8
18	9.9	e11	162	17	367	88	59	49	29	6.8	11	3.7
19	9.4	e13	67	20	161	69	59	40	22	5.6	16	3.4
20	9.6	e13	49	332	105	62	53	32	19	5.4	16	3.7
21	9.6	e11	42	297	82	2150	50	28	17	5.4	14	27
22	9.0	e12	34	116	70	1290	47	26	16	5.0	13	36
23	8.7	e16	29	73	64	399	46	26	25	4.6	12	17
24	e8.5	e32	25	56	74	223	44	24	26	4.8	11	14
25	e8.2	e52	22	49	74	155	50	22	24	4.7	9.5	49
26	e8.0	e60	20	40	85	116	68	40	20	5.8	8.4	26
27	e8.2	e28	20	35	80	93	53	89	16	1070	7.9	16
28	e8.0	e15	20	32	63	79	45	47	14	211	7.6	12
29	e7.9	e11	20	30	---	483	40	34	13	88	6.8	9.5
30	e7.8	e9.0	20	29	---	4190	37	29	11	302	6.3	7.9
31	e7.7	---	18	34	---	657	---	24	---	121	51	---
TOTAL	301.0	468.6	1070.3	1442	2674	11699	5944	988	1406	2107.3	640.5	359.5
MEAN	9.71	15.6	34.5	46.5	95.5	377	198	31.9	46.9	68.0	20.7	12.0
MAX	16	60	415	332	894	4190	1580	89	426	1070	62	49
MIN	7.7	7.6	5.7	15	25	47	37	19	11	4.6	6.3	3.4
CFSM	.07	.10	.23	.31	.64	2.53	1.33	.21	.31	.46	.14	.08
IN.	.08	.12	.27	.36	.67	2.92	1.48	.25	.35	.53	.16	.09

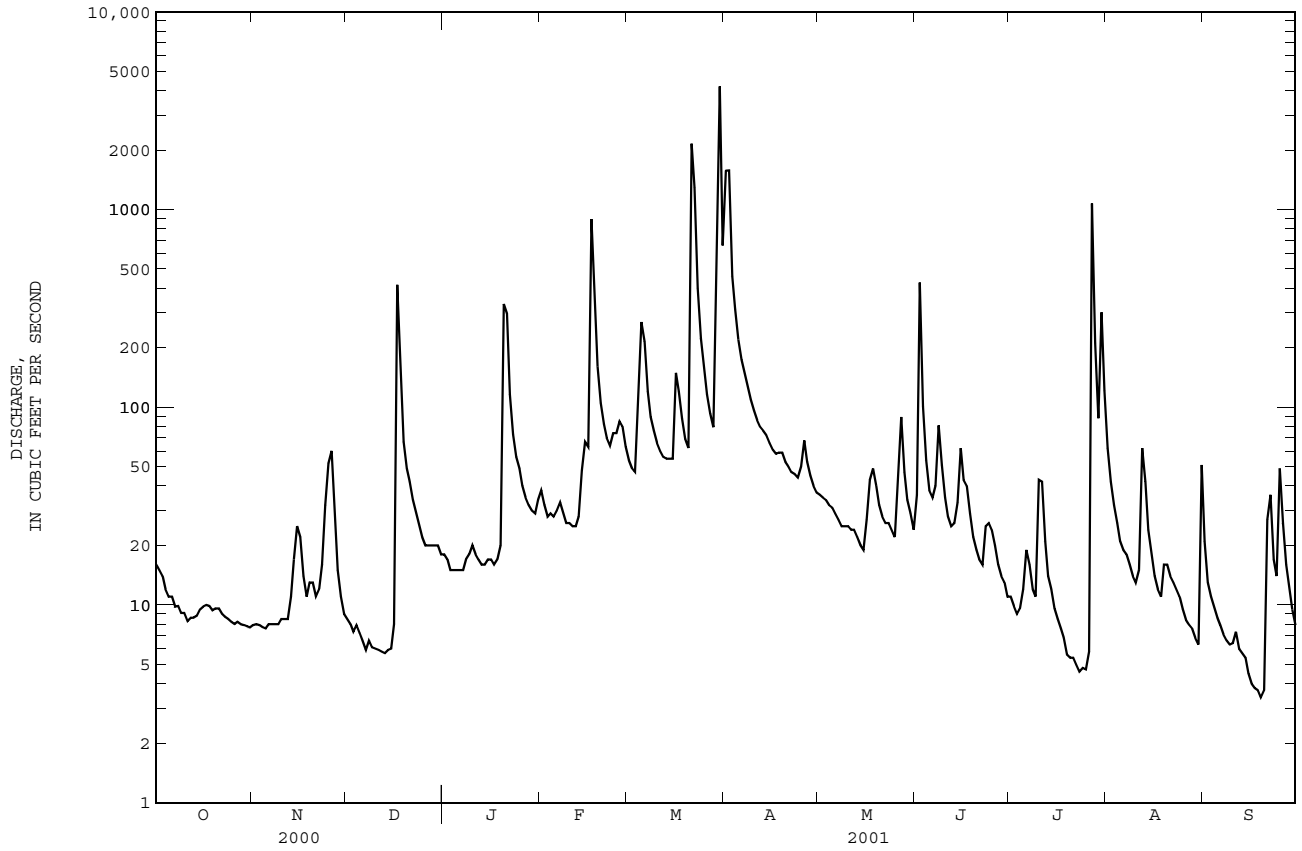
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2001, BY WATER YEAR (WY)

MEAN	64.7	94.3	130	224	273	289	222	112	78.6	85.0	73.8	86.3
MAX	561	489	421	761	758	948	612	573	551	798	431	984
(WY)	1972	1986	1973	1936	1998	1998	1936	1978	1938	1975	1939	1996
MIN	1.24	.71	1.81	4.29	44.4	72.4	31.1	22.2	7.85	4.59	2.93	.71
(WY)	1942	1934	1934	1934	1931	1967	1942	1927	1986	1991	1977	1968

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1925 - 2001	
ANNUAL TOTAL	43591.9		29100.2			
ANNUAL MEAN	119		79.7		144	
HIGHEST ANNUAL MEAN					285	1973
LOWEST ANNUAL MEAN					53.5	1981
HIGHEST DAILY MEAN	2760	Mar 17	4190	Mar 30	21800	Sep 6 1996
LOWEST DAILY MEAN	5.7	Dec 13	3.4	Sep 19	.27	Sep 24 1968
ANNUAL SEVEN-DAY MINIMUM	5.9	Dec 9	4.1	Sep 14	.28	Sep 24 1968
MAXIMUM PEAK FLOW			6570	Mar 30	33800*	Sep 6 1996
MAXIMUM PEAK STAGE			8.04	Mar 30	17.26*	Sep 6 1996
INSTANTANEOUS LOW FLOW			3.3*	Sep 19	.23	Sep 26 1968
ANNUAL RUNOFF (CFSM)	.80		.54		.97	
ANNUAL RUNOFF (INCHES)	10.88		7.27		13.12	
10 PERCENT EXCEEDS	285		109		280	
50 PERCENT EXCEEDS	48		22		49	
90 PERCENT EXCEEDS	8.5		7.3		7.1	

e Estimated.
* See REMARKS.

02085500 FLAT RIVER AT BAHAMA, NC--Continued



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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
19...	1255	9.2	100	6.8	15.8	757	7.4	75	--	<.006	<.047	<.041	--
DEC													
06...	1540	18	102	5.5	3.1	754	12.5	94	--	<.006	<.047	<.041	--
JAN													
31...	1405	33	90	7.0	8.6	746	11.0	97	--	<.006	.270	<.041	--
FEB													
18...	1245	317	74	6.3	7.8	765	11.9	99	--	E.004	.415	E.040	--
MAR													
21...	1530	2480	56	6.3	8.1	742	12.1	105	.415	.006	.421	.126	1.4
APR													
28...	1855	44	84	7.2	18.4	757	10.7	115	--	E.003	.079	E.028	--
JUN													
09...	1800	45	72	6.9	22.8	749	7.2	85	.426	.006	.432	E.038	--
JUL													
20...	1430	5.4	82	6.3	27.1	753	7.5	96	--	E.005	.092	.050	.29
AUG													
22...	1630	13	85	7.8	26.2	754	7.6	95	--	<.006	.117	E.024	--
SEP													
25...	0800	55	67	5.5	20.6	751	7.3	82	--	E.003	.212	<.040	--

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT										
19...	--	.30	.23	--	--	E.032	<.060	<.018	6	.15
DEC										
06...	--	.22	.11	--	--	<.060	<.060	E.011	4	.19
JAN										
31...	--	.34	.28	.61	.55	E.033	<.060	<.018	8	.71
FEB										
18...	--	.90	.46	1.3	.87	.132	<.060	<.018	61	52
MAR										
21...	.51	1.5	.64	1.9	1.1	.268	<.060	.019	346	2320
APR										
28...	--	.30	.20	.38	.28	<.060	<.060	<.018	8	.95
JUN										
09...	--	.54	.42	.98	.85	.063	<.060	<.020	21	2.6
JUL										
20...	.30	.34	.35	.43	.45	E.033	<.060	<.020	8	.12
AUG										
22...	--	.37	.30	.49	.42	<.060	<.060	<.020	7	.25
SEP										
25...	--	.52	.31	.73	.53	.109	E.033	E.014	--	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°09'02", long 78°49'49", 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 2000 TO SEPTEMBER 2001

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
OCT													
27...	0910	1.0	72	6.7	18.2	13	755	.80	6.7	71	23	5.44	2.36
27...	0911	5.0	73	6.3	17.6	--	755	--	2.6	27	--	--	--
27...	0912	10.3	66	6.3	9.2	--	755	--	6.4	56	--	--	--
APR													
17...	0930	1.0	55	6.7	19.1	25	761	.90	6.0	65	17	3.91	1.72
17...	0940	6.0	48	5.8	9.9	--	761	--	5.3	47	--	--	--
17...	0945	12.8	67	6.6	9.3	--	761	--	2.5	22	--	--	--
JUN													
25...	1000	1.0	73	7.6	28.2	15	767	.80	7.5	96	23	5.27	2.29
25...	1005	5.8	76	6.2	19.8	--	767	--	.2	3	--	--	--
25...	1010	11.6	56	5.9	9.3	--	767	--	4.5	39	--	--	--
AUG													
23...	1030	1.0	63	7.0	28.1	12	757	.90	6.3	81	19	4.50	1.92
23...	1035	6.0	67	6.4	21.2	--	757	--	.3	3	--	--	--
23...	1040	12.9	59	6.2	9.3	--	757	--	.3	3	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM ADSORPTION RATIO (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFLTRD IT FIELD MG/L AS CACO3 (00419)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
OCT													
27...	4.7	28	.4	2.14	38	31	2.9	5.2	E.1	10.5	55	.003	.006
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	3.7	30	.4	1.52	33	27	5.8	4.2	<.2	9.3	48	.003	.083
17...	--	--	--	--	--	--	--	--	--	--	--	.006	.316
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	4.6	29	.4	1.72	26	21	4.0	4.4	E.1	8.0	46	<.001	<.005
25...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005
25...	--	--	--	--	--	--	--	--	--	--	--	.003	.435
AUG													
23...	3.5	26	.3	2.27	23	19	3.6	4.2	<.2	7.9	56	<.001	.007
23...	--	--	--	--	--	--	--	--	--	--	--	<.001	.005
23...	--	--	--	--	--	--	--	--	--	--	--	.043	.162

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMO FLUOROM (UG/L) (70954)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
OCT													
27...	.007	.52	.53	.54	<.060	<.007	.6	<.1	34	<2	<.11	M	<2
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	.018	.56	.58	.66	<.060	<.007	4.8	E.3	98	<2	<.11	<1	<2
17...	.175	.46	.64	.95	.133	.015	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	.010	.59	.60	--	<.060	<.007	4.0	<.1	--	--	--	--	--
25...	.048	.45	.50	.50	<.060	<.007	--	--	--	--	--	--	--
25...	.050	.46	.51	.95	E.054	E.005	--	--	--	--	--	--	--
AUG													
23...	.010	.64	.65	.66	<.060	<.007	5.0	E.2	--	--	--	--	--
23...	.108	.54	.65	.65	<.060	<.007	--	--	--	--	--	--	--
23...	.385	.86	1.2	1.4	.167	.015	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)
OCT													
27...	E1.1	140	<1	43	<.14	<1.5	<2	<2.6	<.43	<31	6.6	--	--
27...	--	200	--	74	--	--	--	--	--	--	--	--	--
27...	--	8400	--	1650	--	--	--	--	--	--	--	--	--
APR													
17...	E1.4	240	<1	19	<.14	<1.5	<2	<2.6	<.43	<31	2.1	--	--
17...	--	660	--	82	--	--	--	--	--	--	--	--	--
17...	--	1910	--	401	--	--	--	--	--	--	--	--	--
JUN													
25...	--	110	--	23	--	--	--	--	--	--	7.1	E.02	<.06
25...	--	410	--	190	--	--	--	--	--	--	--	--	--
25...	--	1080	--	437	--	--	--	--	--	--	--	--	--
AUG													
23...	--	120	--	29	--	--	--	--	--	--	8.5	--	--
23...	--	1000	--	442	--	--	--	--	--	--	--	--	--
23...	--	3190	--	816	--	--	--	--	--	--	--	--	--

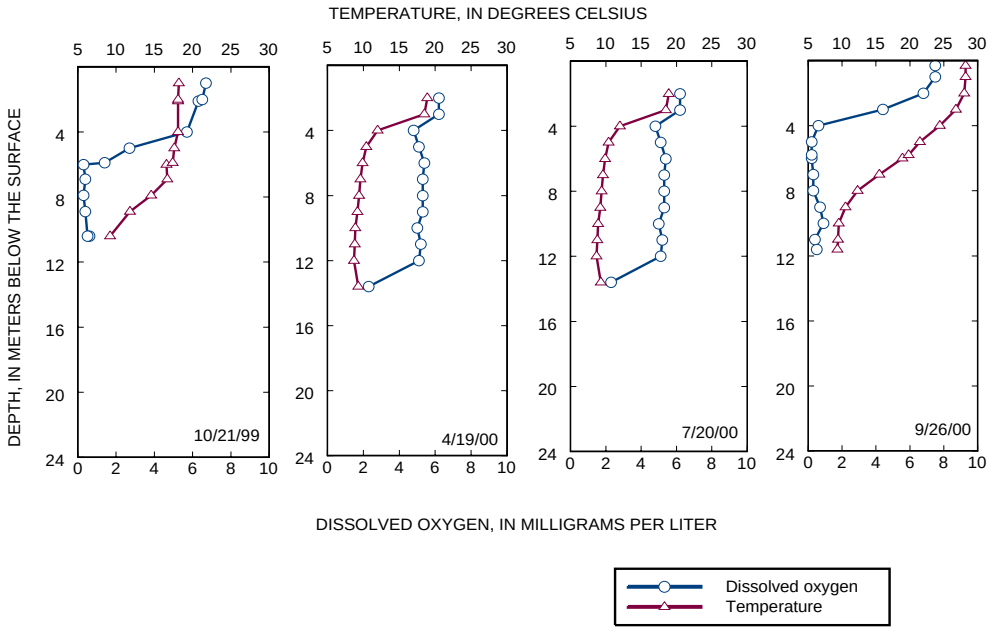
DATE	CARBON TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	BROMO-DI-CHLORO-METHANE TOTAL (UG/L) (32101)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL ENE CHLO-RIDE TOTAL (UG/L) (34423)	STYRENE TOTAL (UG/L) (77128)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.06	<.03	<.2	<.1	<.02	<.2	<.09	<.05	<.3	<.03	<.3	<.2	<.04
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)	BENZENE O-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.1	.13	<.09	<.04	<.09	<.1	<.04	<.04	<.03	<.06	<.09	<.03	<.1
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--

02086490 LAKE MICHIE AT DAM NEAR BAHAMA, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	TRANS-1,2-DI-CHLORO-ETHENE TOTAL (UG/L) (34546)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	ETHANE HEXA-CHLORO-WATER UNFLTRD RECOVER (UG/L) (34396)	NAPHTH-ALENE TOTAL (UG/L) (34696)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO ETHANE WATER WHOLE TOTAL (UG/L) (77651)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)
OCT													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
25...	<.03	<.03	<.1	<.2	<.2	<.2	<.03	<.05	<.04	.028	E.007	<.006	<.018
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--	--	--



02086500 FLAT RIVER AT DAM NEAR BAHAMA, NC

LOCATION.--Lat 36°08'55", long 78°49'43", 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 sea level. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those discharges below 5.0 ft^3/s and those for estimated daily discharges, which are fair. Flow regulated by Lake Michie (station 02086490). An average of 13.3 ft^3/s was diverted above station. About 12.7 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. Minimum discharge for current water year occurred several days in July.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	36	38	34	e18	.11	60	1620	38	39	28	93	40
2	36	39	34	18	.08	52	2250	38	373	39	56	1.4
3	36	38	17	e31	.07	28	865	38	160	38	41	.17
4	33	37	e.29	e31	.07	64	658	38	71	38	33	.49
5	33	37	e.22	e31	.09	276	564	39	45	38	26	23
6	33	37	.19	31	.08	275	457	39	39	39	20	39
7	35	37	.19	31	.07	152	352	39	38	39	19	23
8	36	37	.19	31	.07	97	253	39	40	39	17	.08
9	37	37	.19	31	.07	73	175	39	46	35	14	.06
10	37	37	.19	e31	.08	58	120	39	40	.09	13	.05
11	37	37	.19	31	e.07	51	92	39	39	.04	22	.06
12	38	37	.19	31	.08	45	81	39	39	.03	63	14
13	38	37	.19	31	.10	45	78	39	39	.03	66	39
14	38	37	.23	31	.10	42	70	25	40	.02	44	11
15	39	37	.24	31	.09	30	63	.34	40	.03	34	17
16	39	37	.24	31	.11	54	58	.44	40	.04	25	26
17	33	34	.58	31	.71	111	54	.40	40	.04	.11	.08
18	30	35	.42	e31	46	70	52	.27	40	.05	.47	11
19	30	16	.36	e31	181	39	50	.26	40	.04	5.1	39
20	31	.35	e.35	e32	139	28	47	.24	40	.03	12	38
21	31	.30	e.35	e31	99	e2300	44	.25	40	.03	12	19
22	31	16	e15	e32	67	1770	42	.28	40	.03	9.9	.05
23	30	35	e36	31	66	594	40	.28	40	.02	19	19
24	37	35	e35	30	66	283	39	.23	39	.04	24	39
25	41	35	e35	30	77	179	45	.23	39	.03	.07	20
26	41	34	e35	29	82	126	54	1.0	39	.05	.05	25
27	41	34	35	29	89	96	52	.40	39	773	.08	20
28	41	34	34	29	76	78	44	.34	39	424	.15	.07
29	41	34	e33	29	---	301	39	14	39	150	.22	18
30	41	34	e32	30	---	5260	38	39	39	337	.63	39
31	39	---	e32	17	---	1060	---	39	---	198	35	---
TOTAL	1119	972.65	411.80	912	990.05	13697	8396	624.96	1681	2215.64	704.78	521.51
MEAN	36.1	32.4	13.3	29.4	35.4	442	280	20.2	56.0	71.5	22.7	17.4
MAX	41	39	36	32	181	5260	2250	39	373	773	93	40
MIN	30	.30	.19	17	.07	28	38	.23	38	.02	.05	.05

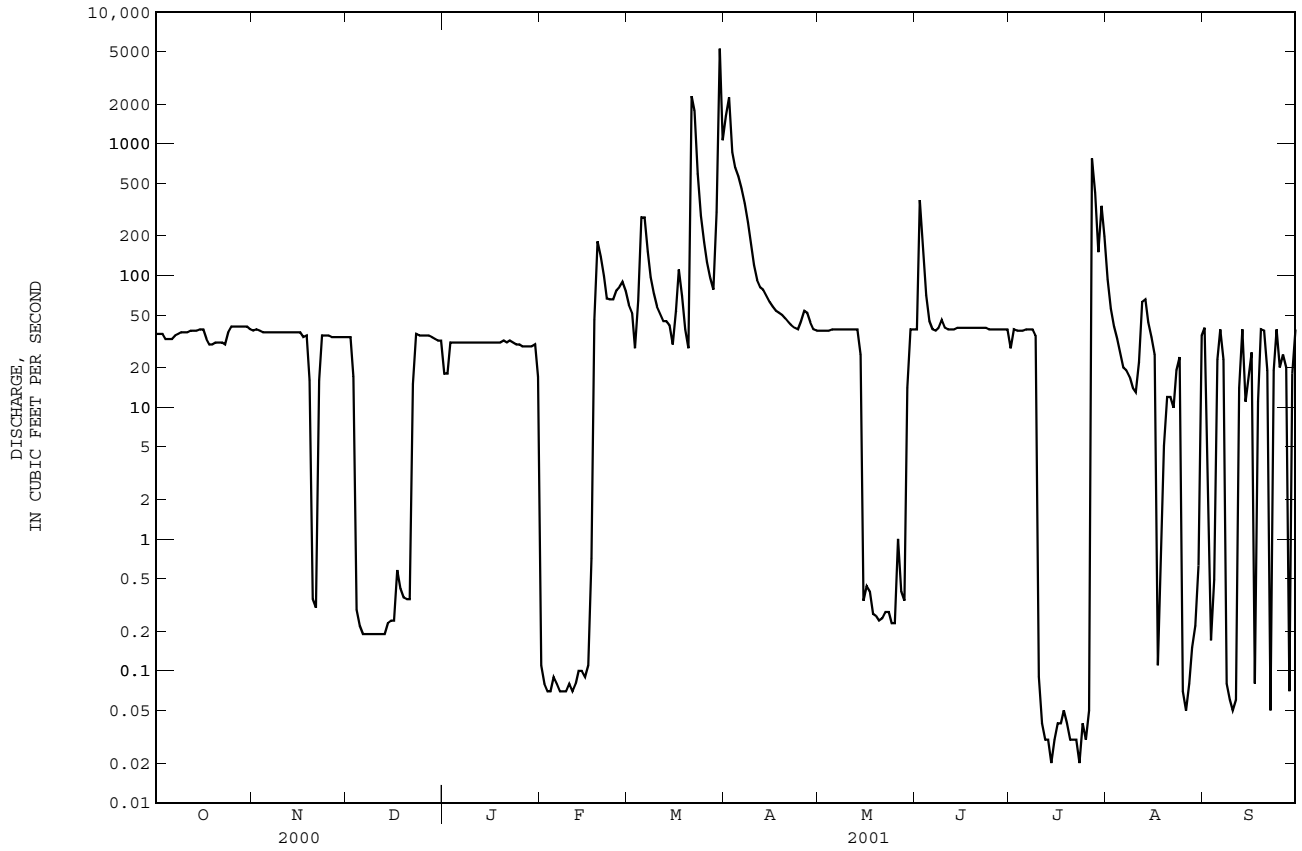
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2001,@ BY WATER YEAR (WY)

MEAN	58.3	95.0	132	240	302	316	261	116	83.0	83.3	83.2	69.9
MAX	530	496	421	759	1140	1041	681	385	528	795	481	714
(WY)	1930	1986	1949	1937	1998	1993	1936	1989	1995	1938	1939	1945
MIN	.046	.042	.16	.27	9.19	62.6	13.8	.31	.20	.15	.043	.031
(WY)	1988	1988	1966	1966	1934	1931	1985	1986	1986	1966	1988	1990

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1927 - 2001@	
ANNUAL TOTAL	32246.39			
ANNUAL MEAN	88.3		151	
HIGHEST ANNUAL MEAN			259	1936
LOWEST ANNUAL MEAN			47.4	1988
HIGHEST DAILY MEAN	5260	Mar 30	10500	Oct 2 1929
LOWEST DAILY MEAN	.02	Jul 14	.00	Sep 4 1938
ANNUAL SEVEN-DAY MINIMUM	.03	Jul 19	.00	Sep 4 1938
MAXIMUM PEAK FLOW	7540	Mar 30	19700	Jul 26 1938
MAXIMUM PEAK STAGE	13.34	Mar 30	19.50	Jul 26 1938
INSTANTANEOUS LOW FLOW	.02*	Jul 14	.00*	Sep 3 1938
10 PERCENT EXCEEDS	92		309	
50 PERCENT EXCEEDS	35		58	
90 PERCENT EXCEEDS	.09		.80	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

02086500 FLAT RIVER AT DAM NEAR BAHAMA, NC--Continued



0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC

LOCATION.--Lat 36°07'54", 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 sea level, from topographic map.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.02	.03	e.02	.08	.19	12	.13	4.0	.03	.12	.06
2	.26	.02	.03	e.03	.06	.18	5.2	.11	1.8	.04	.07	.03
3	.23	.03	.03	e.04	.06	.18	2.0	.09	.47	.02	.05	.03
4	.24	.03	.03	.06	.05	1.4	1.3	.08	.26	.05	.04	.04
5	.25	.05	.04	.06	.10	1.4	.92	.08	.19	.08	.03	.04
6	.25	.04	.04	.06	.07	.81	.76	.08	.13	.02	.02	.02
7	.17	.06	.03	.06	.06	.45	.64	.07	.12	.01	.01	.01
8	.11	.06	.02	.08	.06	.31	.55	.09	.10	.03	.01	.00
9	.13	.08	.02	.06	.06	.27	.49	.07	.08	.02	.01	.01
10	.12	.08	.02	.05	.07	.21	.42	.08	.06	.02	.02	.05
11	.10	.04	.02	.04	.06	.18	.36	.07	.05	.01	.21	.03
12	.08	.04	.02	.05	.09	.16	.34	.10	.05	.01	.11	.00
13	.06	.05	.02	.04	.16	.20	.33	.11	.08	.01	.09	.00
14	.04	.10	.04	.05	.19	.16	.30	.08	.16	.01	.04	.00
15	.03	.03	.03	.06	.19	.25	.28	.11	.12	.00	.02	.00
16	.03	.03	.05	.06	.21	.34	.26	.26	.08	.00	.02	.00
17	.02	.03	.44	.09	8.3	.27	.27	.28	.07	.00	.02	.00
18	.02	.03	.13	.14	1.4	.21	.25	.18	.04	.02	.04	.00
19	.04	.06	.10	.18	.64	.18	.22	.13	.04	.02	.04	.00
20	.03	.12	.12	1.5	.43	.65	.21	.10	.03	.01	.02	.00
21	.03	.06	.11	.59	.32	20	.20	.12	.03	.00	.02	.00
22	.04	.04	e.06	.29	.28	5.9	.18	.14	.16	.00	.01	.00
23	.03	.04	e.04	.21	.33	1.6	.18	.18	.21	.00	.00	.00
24	.03	.04	e.03	.17	.45	.99	.17	.14	.05	.01	.03	.05
25	.04	.17	e.03	.14	.38	.70	.34	.12	.04	.00	.02	.03
26	.03	.16	e.04	.13	.40	.53	.23	.99	.03	.04	.01	.00
27	.03	.06	e.03	.12	.27	.42	.18	.27	.03	12	.02	.00
28	.02	.04	e.03	.09	.23	.37	.17	.18	.02	.46	.08	.00
29	.02	.03	e.03	.09	---	16	.14	.17	.02	.32	.04	.00
30	.02	.03	e.02	.14	---	23	.13	.10	.02	.51	.08	.00
31	.02	---	e.02	.11	---	4.3	---	.07	---	.22	.03	---
TOTAL	2.77	1.67	1.70	4.81	15.00	81.81	29.02	4.78	8.54	13.97	1.33	0.40
MEAN	.089	.056	.055	.16	.54	2.64	.97	.15	.28	.45	.043	.013
MAX	.26	.17	.44	1.5	8.3	23	12	.99	4.0	12	.21	.06
MIN	.02	.02	.02	.02	.05	.16	.13	.07	.02	.00	.00	.00
CFSM	.08	.05	.05	.14	.47	2.31	.85	.14	.25	.40	.04	.01
IN.	.09	.05	.06	.16	.49	2.67	.95	.16	.28	.46	.04	.01

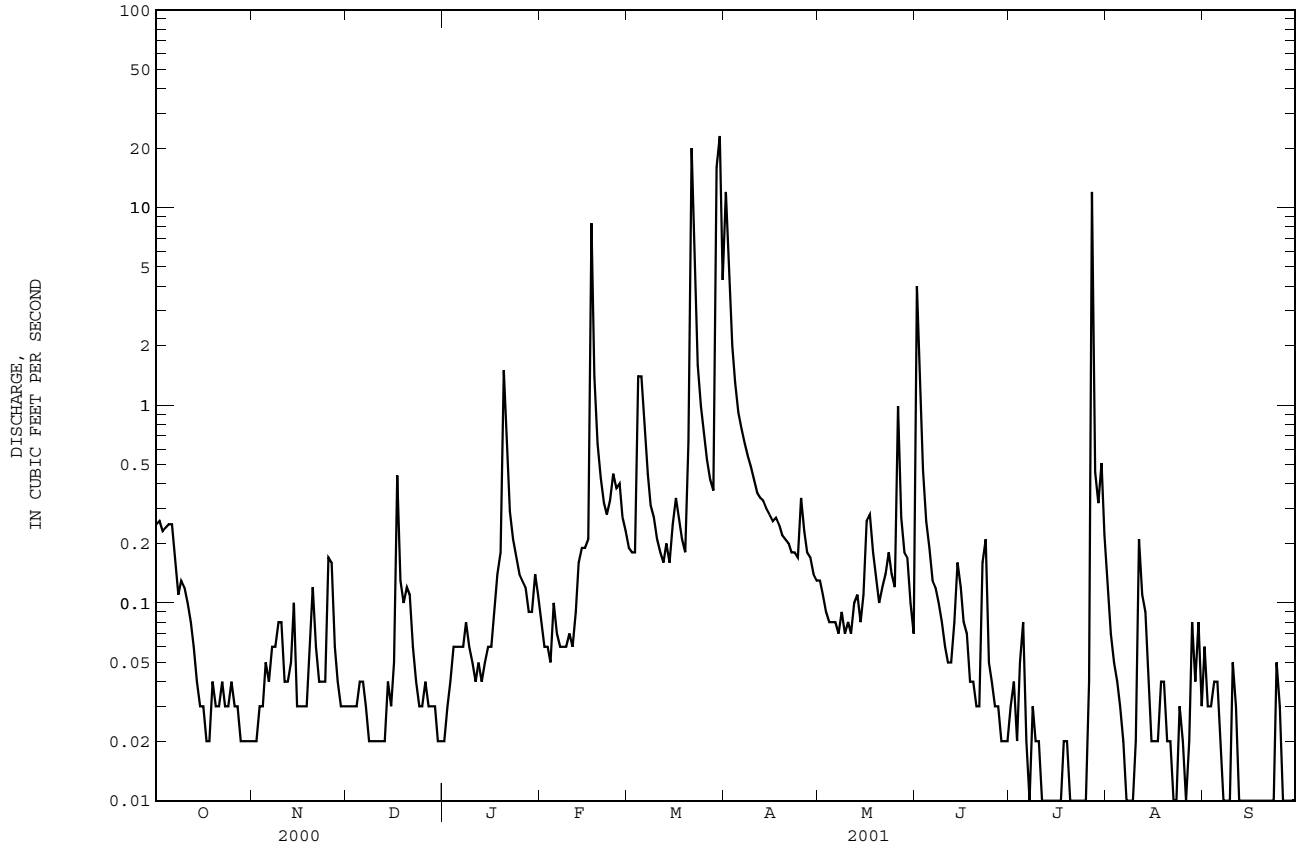
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2001,@ BY WATER YEAR (WY)

MEAN	.39	.43	.78	1.92	2.31	2.55	1.42	.68	.56	.29	.11	1.59
MAX	1.46	1.27	3.26	3.17	5.41	8.30	2.46	2.20	4.07	1.26	.50	8.60
(WY)	1990	1996	1990	1998	1998	1998	1997	1989	1995	1989	1989	1996
MIN	.009	.056	.014	.16	.54	.45	.064	.15	.052	.003	.001	.000
(WY)	1999	2001	1989	2001	2001	1988	1995	2001	1988	1988	1988	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1987 - 2001@	
ANNUAL TOTAL	223.10		165.80			
ANNUAL MEAN	.61		.45		1.12	
HIGHEST ANNUAL MEAN					1.58	1996
LOWEST ANNUAL MEAN					.45	2001
HIGHEST DAILY MEAN	12	Apr 18	23	Mar 30	225	Sep 6 1996
LOWEST DAILY MEAN	.00	Jul 10	.00	Jul 15	.00	Jun 22 1988
ANNUAL SEVEN-DAY MINIMUM	.01	Jul 5	.00	Sep 12	.00	Jul 2 1988
MAXIMUM PEAK FLOW			93	Mar 29	1410*	Sep 6 1996
MAXIMUM PEAK STAGE			4.86	Mar 29	7.77*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.00*	Jul 15	.00*	Jun 15 1988
ANNUAL RUNOFF (CFSM)	.53		.40		.98	
ANNUAL RUNOFF (INCHES)	7.28		5.41		13.38	
10 PERCENT EXCEEDS	1.7		.44		1.9	
50 PERCENT EXCEEDS	.16		.06		.22	
90 PERCENT EXCEEDS	.02		.01		.00	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued



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 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT													
18...	0920	.03	108	6.8	15.6	758	7.5	76	--	<.006	<.047	<.041	.15
DEC													
07...	0955	.04	104	6.6	2.9	757	11.1	83	--	<.006	.237	<.041	.12
JAN													
30...	1020	.19	99	6.4	7.5	751	10.3	87	--	<.006	.165	<.041	.17
FEB													
17...	1115	8.8	52	6.0	9.7	763	10.8	95	--	<.006	.067	<.041	.56
MAR													
21...	0815	14	42	6.1	8.6	749	11.1	97	--	<.006	E.039	<.041	.55
APR													
28...	1015	.19	82	6.3	12.4	760	10	93	--	<.006	.082	E.025	.16
JUN													
09...	0940	.09	88	6.2	18.8	754	8.0	87	--	<.006	.135	<.040	.14
JUL													
19...	1150	.02	94	6.2	21.5	756	7.2	83	.297	.006	.303	<.040	.14
AUG													
22...	1030	.02	97	7.4	20.1	760	6.9	76	--	<.006	.091	<.040	.22
SEP													
25...	1545	.01	92	6.5	18.3	751	6.9	74	--	<.006	.060	<.040	.22

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
OCT													
18...	.11	--	--	<.060	<.060	<.018	39	<2	<.11	<1	<4	<1.8	630
DEC													
07...	<.10	.35	--	<.060	<.060	<.018	--	--	--	--	--	--	--
JAN													
30...	.14	.33	.31	<.060	<.060	<.018	168	<2	<.11	<1	<2	<1.8	480
FEB													
17...	.44	.63	.51	.063	<.060	<.018	793	<2	<.11	M	<2	2.6	1090
MAR													
21...	.33	--	--	E.056	<.060	<.018	845	<2	<.11	M	<2	2.1	1120
APR													
28...	E.07	.24	--	<.060	<.060	<.018	--	--	--	--	--	--	--
JUN													
09...	.13	.27	.26	<.060	<.060	<.020	--	--	--	--	--	--	--
JUL													
19...	.18	.45	.48	<.060	<.060	<.020	95	<2	<.10	<1	<2	E.8	880
AUG													
22...	.15	.31	.24	<.060	<.060	<.020	--	--	--	--	--	--	--
SEP													
25...	.16	.28	.22	<.060	<.060	<.020	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ENDO-SULFAN I TOTAL (UG/L) (39388)	ALDRIN, TOTAL (UG/L) (39330)	CHLOR-DANE, TECH-NICAL TOTAL (UG/L) (39350)	P,P'-DDD UNFILT RECOVER (UG/L) (39360)	P,P'-DDE, TOTAL (UG/L) (39365)
OCT													
18...	<1	50	<.14	<1.5	E1	<2.6	<.43	<31	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	<1	54	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--	--	--
FEB													
17...	1	106	<.14	<1.5	<2	<2.6	<.43	<31	--	--	--	--	--
MAR													
21...	1	103	<.14	<1.5	E1	<2.6	<.43	<31	<.015	<.013	<.1	<.007	<.006
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	<1	36	<.01	<1.5	--	<3.0	<.40	<31	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	P,P'-DDT UNFILT RECOVER (UG/L) (39370)	DI-ELDRIN TOTAL (UG/L) (39380)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	LINDANE TOTAL (UG/L) (39340)	TOX-APHENE, TOTAL (UG/L) (39400)	DI-AZINON, TOTAL (UG/L) (39570)	ETHION, TOTAL (UG/L) (39398)	MALA-THION, TOTAL (UG/L) (39530)	METHYL PARA-THION, TOTAL (UG/L) (39600)	PARA-THION, TOTAL (UG/L) (39540)	CARBO-PHENO-THION WATER UNFLTRD (UG/L) (39786)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.009	<.006	<.014	<.014	<.009	<.006	<1	<.02	<.01	<.03	<.01	<.01	<.02
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PCB, TOTAL (UG/L) (39516)	METH-OXY-CHLOR, TOTAL (UG/L) (39480)	MIREX, TOTAL (UG/L) (39755)	DISUL-FOTON UNFILT RECOVER (UG/L) (39011)	PHORATE TOTAL (UG/L) (39023)	CHLOR-PYRIFOS TOTAL RECOVER (UG/L) (38932)	DEF TOTAL (UG/L) (39040)	FONOFOS (DY-FONATE) WATER WHOLE TOT.REC (UG/L) (82614)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)
OCT													
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC													
07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN													
30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
21...	<.1	<.01	<.01	<.13	<.02	<.01	<.02	<.01	.004	E.004	<.010	<.002	<.005
APR													
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CYANAZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DIAZINON, DISSOLVED (UG/L) (39572)	DIELDRIN DISSOLVED (UG/L) (39381)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISULFOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHALFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHOPROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DISSOLVED (UG/L) (34253)	LINDANE DISSOLVED (UG/L) (39341)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.018	<.003	<.003	<.005	<.005	<.002	<.021	<.002	<.009	<.005	<.003	<.005	<.004
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	LINURON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALATHION, DISSOLVED (UG/L) (39532)	METOLACHLOR WATER DISSOLV (UG/L) (39415)	METRIBUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOLINATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROPAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARATHION, DISSOLVED (UG/L) (39542)	METHYL PARATHION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEBULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDIMETHALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PERMETHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRONAMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.035	<.027	<.013	<.006	<.002	<.007	<.007	<.006	<.002	<.010	<.006	<.011	<.004
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PROMETON, WATER, DISS, REC (UG/L) (04037)	PROPACHLOR, WATER, DISS, REC (UG/L) (04024)	PROPANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PROPARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SIMAZINE, WATER, DISS, REC (UG/L) (04035)	THIOBENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TEBUTHIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TERBUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIALLATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRIFLURALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DEETHYL ATRAZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZINPHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.015	<.010	<.011	<.023	<.011	<.005	<.016	<.017	<.002	<.009	<.006	<.050	E.022
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	2,4,5-T DIS-SOLVED (UG/L) (39742)	2,4-D, DIS-SOLVED (UG/L) (39732)	2,4-DB WATER, FLTRD, GF 0.7U REC (UG/L) (38746)	ACIFL-UORFEN WATER, FLTRD, GF 0.7U REC (UG/L) (49315)	ALDI-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (49312)	ALDI-CARB SULFONE WAT,FLT GF 0.7U REC (UG/L) (49313)	ALDICA-RB SUL-FOXIDE, WAT,FLT GF 0.7U REC (UG/L) (49314)	BENTA-ZON, WATER, FLTRD, GF 0.7U REC (UG/L) (38711)	BRO-MACIL, WATER, DISS, REC (UG/L) (04029)	BRO-MOXYNIL WATER, FLTRD, GF 0.7U REC (UG/L) (49311)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.020	<.034	<.004	<.04	<.11	<.10	<.05	<.21	<.20	<.02	<.04	<.09	<.07
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CAR-BARYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49310)	CARBO-FURAN, WATER, FLTRD, GF 0.7U REC (UG/L) (49309)	3HYDRXY CARBO-FURAN WAT,FLT GF 0.7U REC (UG/L) (49308)	CHLORO-THALO-NIL, WAT,FLT GF 0.7U REC (UG/L) (49306)	CLOPYR-ALID, WATER, FLTRD, GF 0.7U REC (UG/L) (49305)	DACTHAL MONO-ACID, WAT,FLT GF 0.7U REC (UG/L) (49304)	DICAMBA WATER, FLTRD, GF 0.7U REC (UG/L) (38442)	DICHLO-BENIL, WATER, FLTRD, GF 0.7U REC (UG/L) (49303)	DICHLOR PROP, WATER, FLTRD, GF 0.7U REC (UG/L) (49302)	DINOSEB WATER, FLTRD, GF 0.7U REC (UG/L) (49301)	DIURON, WATER, FLTRD, GF 0.7U REC (UG/L) (49300)	DNOC WAT,FLT GF 0.7U REC (UG/L) (49299)	FEN-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49297)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.02	<.29	<.32	<.13	<.62	<.07	<.04	<.05	<.05	<.09	<.06	<.25	<.07
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	FLUO-METURON WATER, FLTRD, GF 0.7U REC (UG/L) (38811)	LINURON WATER, FLTRD, GF 0.7U REC (UG/L) (38478)	MCPA, WATER, FLTRD, GF 0.7U REC (UG/L) (38482)	MCPB, WATER, FLTRD, GF 0.7U REC (UG/L) (38487)	METHIO-CARB, WATER, FLTRD, GF 0.7U REC (UG/L) (38501)	METH-OMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (49296)	NEB-URON, WATER, FLTRD, GF 0.7U REC (UG/L) (49294)	NORFLUR AZON, WATER, FLTRD, GF 0.7U REC (UG/L) (49293)	ORY-ZALIN, WATER, FLTRD, GF 0.7U REC (UG/L) (49292)	OXAMYL, WATER, FLTRD, GF 0.7U REC (UG/L) (38866)	PIC-LORAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49291)	PRO-PHAM, WATER, FLTRD, GF 0.7U REC (UG/L) (49236)	PRO-POXUR, WATER, FLTRD, GF 0.7U REC (UG/L) (38538)
OCT 18...	--	--	--	--	--	--	--	--	--	--	--	--	--
DEC 07...	--	--	--	--	--	--	--	--	--	--	--	--	--
JAN 30...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB 17...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR 21...	<.06	<.11	<.08	<.13	<.12	<4.12	<.32	<.04	<1.17	<.31	<.09	<.09	<.12
APR 28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUN 09...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL 19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG 22...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP 25...	--	--	--	--	--	--	--	--	--	--	--	--	--

0208650112 FLAT RIVER TRIBUTARY NEAR WILLARDVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	SILVEX, DIS-SOLVED (UG/L) (39762)	TRI-CLOPYR, WATER, FLTRD, GF 0.7U REC (UG/L) (49235)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
18...	--	--	2	.00
DEC				
07...	--	--	2	.00
JAN				
30...	--	--	4	.00
FEB				
17...	--	--	72	1.7
MAR				
21...	<.03	<.07	98	3.7
APR				
28...	--	--	4	.00
JUN				
09...	--	--	4	.00
JUL				
19...	--	--	--	--
AUG				
22...	--	--	4	.00
SEP				
25...	--	--	--	--

Old gaging structure at Eno River at Hillsborough, North Carolina.

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC

LOCATION.--Lat 35°56'27", long 78°34'57", 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.

GAGE-HEIGHT RECORDS

PERIOD OF RECORD.--February 1979 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level. U.S. 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, 264.34 ft, Oct. 1, 2, 1999; minimum, 242.78 ft, Nov. 26, 1993.

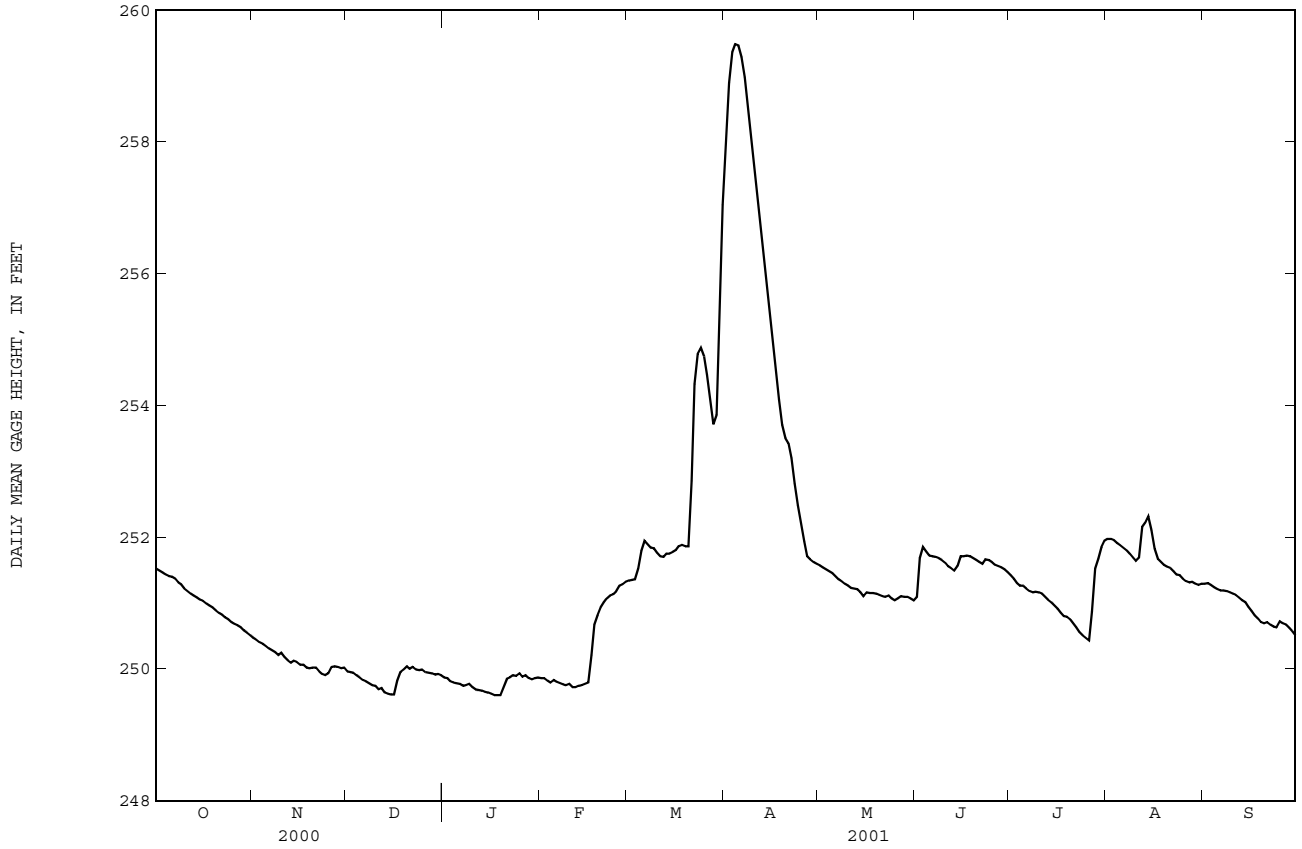
EXTREMES FOR CURRENT YEAR.--Maximum, 259.50 ft, Apr. 3-5; minimum, 249.54 ft, Dec. 17, Jan. 19.

COOPERATION.--Extremes for period of record provided by U.S. Army Corps of Engineers.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	251.52	250.47	249.96	249.87	249.86	251.34	257.82	251.57	251.09	251.42	251.97	251.29
2	251.49	250.44	249.95	249.86	249.86	251.35	258.89	251.54	251.68	251.37	251.97	251.30
3	251.46	250.40	249.94	249.81	249.82	251.36	259.36	251.51	251.85	251.30	251.95	251.27
4	251.43	250.38	249.90	249.79	249.79	251.52	259.48	251.48	251.78	251.26	251.91	251.24
5	251.41	250.35	249.87	249.78	249.83	251.79	259.46	251.45	251.72	251.26	251.88	251.21
6	251.40	250.31	249.83	249.77	249.80	251.94	259.28	251.41	251.71	251.22	251.84	251.19
7	251.37	250.28	249.81	249.74	249.78	251.89	258.98	251.36	251.70	251.18	251.80	251.19
8	251.31	250.25	249.78	249.75	249.76	251.84	258.61	251.33	251.68	251.16	251.75	251.18
9	251.28	250.21	249.75	249.77	249.75	251.83	258.23	251.29	251.65	251.17	251.69	251.16
10	251.22	250.24	249.74	249.72	249.77	251.76	257.82	251.26	251.61	251.16	251.64	251.14
11	251.18	250.18	249.69	249.69	249.72	251.71	257.39	251.23	251.56	251.14	251.69	251.12
12	251.14	250.13	249.71	249.68	249.72	251.70	256.94	251.22	251.53	251.09	252.15	251.08
13	251.11	250.09	249.64	249.67	249.74	251.75	256.49	251.21	251.49	251.05	252.22	251.04
14	251.08	250.12	249.62	249.65	249.75	251.75	256.03	251.16	251.56	251.01	252.31	251.01
15	251.05	250.10	249.61	249.64	249.77	251.77	255.55	251.10	251.71	250.96	252.10	250.94
16	251.03	250.06	249.61	249.62	249.79	251.80	255.09	251.16	251.71	250.91	251.82	250.88
17	250.99	250.06	249.82	249.60	250.21	251.86	254.57	251.15	251.72	250.85	251.67	250.81
18	250.96	250.02	249.95	249.60	250.67	251.88	254.09	251.15	251.71	250.80	251.62	250.76
19	250.93	250.01	249.99	249.60	250.81	251.86	253.70	251.14	251.68	250.79	251.58	250.71
20	250.89	250.02	250.04	249.72	250.93	251.86	253.50	251.12	251.65	250.75	251.55	250.69
21	250.85	250.02	250.00	249.85	251.01	252.85	253.42	251.10	251.62	250.69	251.53	250.71
22	250.82	249.96	250.03	249.87	251.07	254.32	253.20	251.09	251.59	250.63	251.48	250.67
23	250.78	249.92	249.99	249.90	251.11	254.78	252.81	251.11	251.66	250.56	251.43	250.64
24	250.75	249.90	249.98	249.89	251.13	254.87	252.48	251.07	251.65	250.51	251.42	250.63
25	250.71	249.93	249.99	249.93	251.18	254.74	252.21	251.04	251.62	250.47	251.37	250.72
26	250.68	250.03	249.95	249.88	251.26	254.46	251.93	251.07	251.58	250.43	251.33	250.69
27	250.66	250.04	249.94	249.90	251.28	254.08	251.71	251.10	251.56	250.87	251.31	250.67
28	250.63	250.03	249.93	249.86	251.32	253.71	251.66	251.09	251.54	251.52	251.32	250.62
29	250.58	250.01	249.91	249.84	---	253.85	251.62	251.09	251.51	251.67	251.29	250.57
30	250.55	250.02	249.92	249.86	---	255.53	251.59	251.07	251.47	251.85	251.27	250.51
31	250.51	---	249.90	249.87	---	257.04	---	251.04	---	251.94	251.29	---
MEAN	251.02	250.13	249.86	249.77	250.30	252.74	255.46	251.22	251.62	251.06	251.68	250.92
MAX	251.52	250.47	250.04	249.93	251.32	257.04	259.48	251.57	251.85	251.94	252.31	251.30
MIN	250.51	249.90	249.61	249.60	249.72	251.34	251.59	251.04	251.09	250.43	251.27	250.51

02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC--Continued



02087182 FALLS LAKE ABOVE DAM NEAR FALLS, NC--Continued

PRECIPITATION RECORDS

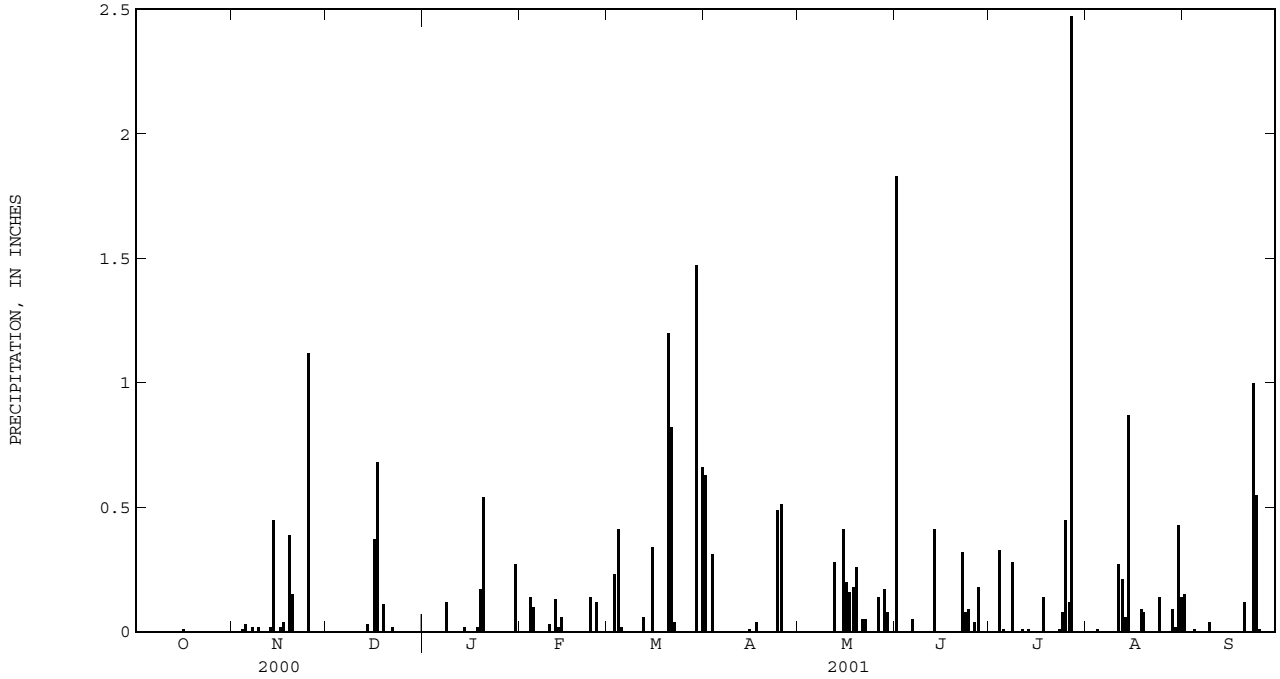
PERIOD OF RECORD.--October 1998 to current year.

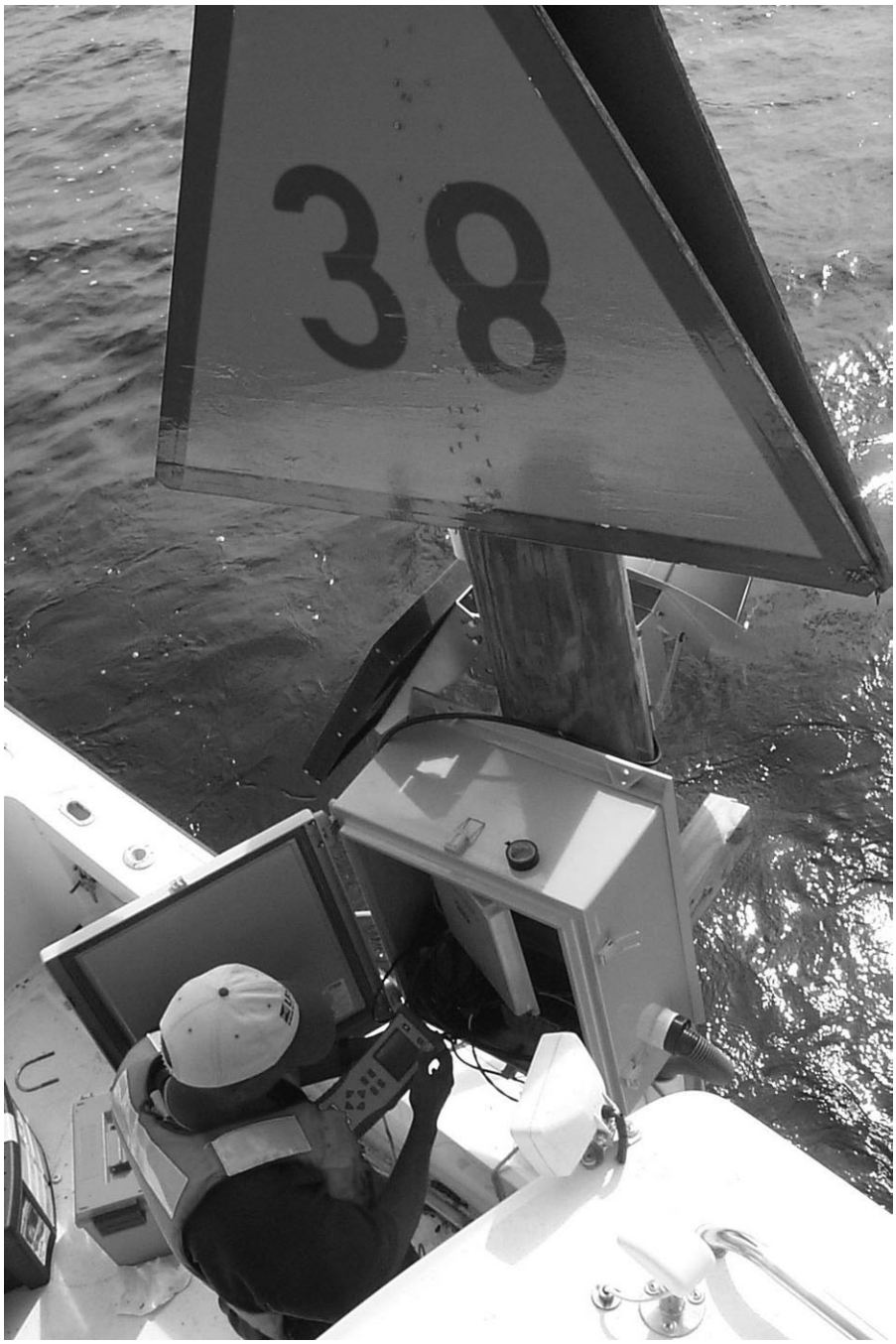
INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

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 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.63	.00	1.83	.00	.00	.15
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.23	.31	.00	.00	.00	.00	.00
4	.00	.01	.00	.00	.14	.41	.00	.00	.00	.33	.01	.01
5	.00	.03	.00	.00	.10	.02	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
7	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.12	.00	.00	.00	.00	.00	.28	.00	.00
9	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04
10	.00	.00	.00	.00	.03	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.27	.00
12	.00	.00	.00	.00	.13	.06	.00	.28	.00	.00	.21	.00
13	.00	.02	.00	.00	.02	.00	.00	.00	.41	.01	.06	.00
14	.00	.45	.03	.02	.06	.00	.00	.00	---	.00	.87	.00
15	.00	.00	.00	.00	.00	.34	.01	.41	---	.00	.00	.00
16	.01	.02	.37	.00	.00	.00	.00	.20	---	.00	.00	.00
17	.00	.04	.68	.00	.00	.00	.04	.16	---	.00	.00	.00
18	.00	.00	.00	.02	.00	.00	.00	.18	---	.14	.09	.00
19	.00	.39	.11	.17	.00	.00	.00	.26	---	.00	.08	.00
20	.00	.15	.00	.54	.00	1.20	.00	.00	---	.00	.00	.12
21	.00	.00	.00	.00	.00	.82	.00	.05	---	.00	.00	.00
22	.00	.00	.02	.00	.00	.04	.00	.05	.32	.00	.00	.00
23	.00	.00	.00	.00	.14	.00	.00	.00	.08	.01	.00	1.00
24	.00	.00	.00	.00	.00	.00	.49	.00	.09	.08	.14	.55
25	.00	1.12	.00	.00	.12	.00	.51	.00	.00	.45	.00	.01
26	.00	.00	.00	.00	.00	.00	.00	.14	.04	.12	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.18	2.47	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.17	.00	.00	.09	.00
29	.00	.00	.00	.00	---	1.47	.00	.08	.00	.00	.02	.00
30	.00	.00	.00	.27	---	.00	.00	.00	.00	.00	.43	.00
31	.00	---	.00	.00	---	.66	---	.00	---	.00	.14	---
TOTAL	0.01	2.27	1.21	1.14	0.74	5.25	1.99	1.98	---	3.91	2.41	1.88





Water Quality monitor at Neuse River at channel marker 38, North Carolina.

02087183 NEUSE RIVER NEAR FALLS, NC

LOCATION.--Lat 35°56'25", long 78°34'56", Wake County, Hydrologic Unit 03020201, on right bank 300 ft downstream of 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 sea level. 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 fair 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 85.7 ft^3/s, 1.2 mi upstream from station for municipal water supply, most of which 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. Minimum discharge for current water also occurred on Dec. 15, due to gate closure.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in September 1945 reached a stage 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	142	127	130	138	137	142	232	192	213	149	138	141
2	138	128	136	138	137	140	390	193	245	179	140	146
3	138	124	138	138	137	139	578	195	517	205	164	147
4	145	121	e138	138	137	139	812	197	717	208	191	146
5	144	139	e136	138	137	320	1610	198	375	155	191	146
6	144	145	e134	138	137	495	2630	198	149	119	211	147
7	143	144	132	139	137	527	3290	195	148	124	218	172
8	141	144	131	139	137	543	3430	192	149	125	219	189
9	141	146	130	139	138	536	3440	192	192	140	219	192
10	139	142	128	139	138	580	3420	192	219	148	219	e195
11	138	138	131	139	137	340	3480	192	219	148	219	160
12	133	135	133	138	137	167	3510	191	218	147	222	137
13	124	133	130	138	137	165	3500	189	216	148	399	136
14	125	128	99	137	138	156	3490	187	169	149	1090	165
15	124	125	89	138	138	153	3540	186	141	152	1930	241
16	124	125	130	137	139	148	3550	186	140	153	1340	258
17	123	129	131	135	139	146	3520	185	140	153	501	231
18	127	128	132	136	139	147	3230	185	140	155	225	197
19	126	127	133	136	140	150	1770	183	144	157	228	197
20	125	125	133	137	142	228	852	184	143	177	230	200
21	125	125	133	137	143	263	716	156	150	219	234	201
22	126	126	133	136	143	266	2050	139	155	219	190	198
23	127	127	133	136	142	434	2360	140	154	221	156	208
24	126	126	133	136	143	910	2000	140	153	224	154	216
25	132	128	133	137	144	1960	1990	141	152	203	154	152
26	131	130	133	136	142	2480	1780	159	152	181	152	e110
27	131	129	134	136	142	2790	829	170	149	158	153	155
28	131	128	135	136	142	1890	240	171	146	135	153	243
29	130	129	136	137	---	354	242	171	147	135	146	267
30	128	130	134	137	---	227	212	160	148	135	153	268
31	127	---	136	138	---	231	---	148	---	137	141	---
TOTAL	4098	3931	4047	4257	3899	17166	62693	5507	6100	5058	10080	5561
MEAN	132	131	131	137	139	554	2090	178	203	163	325	185
MAX	145	146	138	139	144	2790	3550	198	717	224	1930	268
MIN	123	121	89	135	137	139	212	139	140	119	138	110
†	-203	-97	-14	-7	310	1381	-1377	-109	83	107	-137	-162

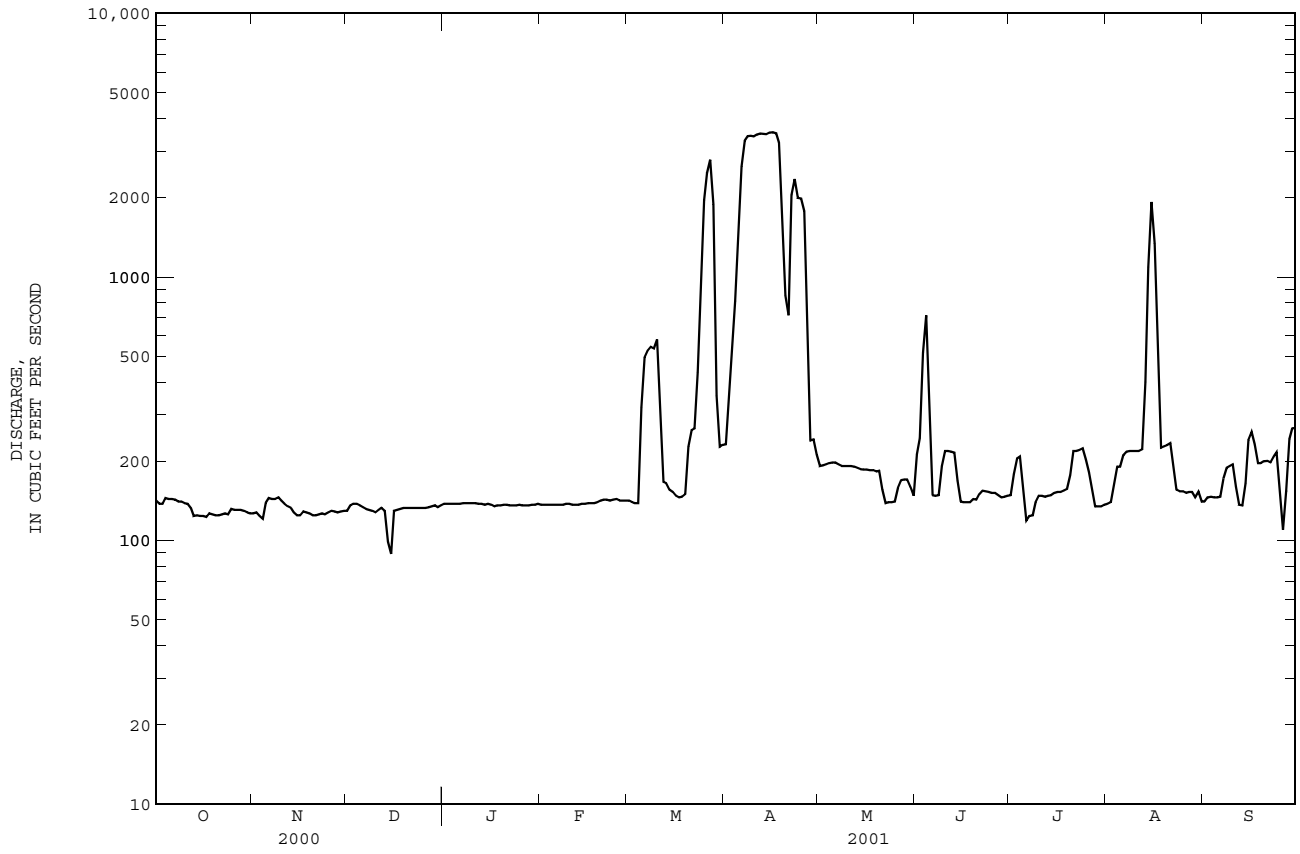
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,* BY WATER YEAR (WY)

MEAN	439	353	496	857	1267	1659	1200	529	291	312	293	430
MAX	3217	1535	1818	2014	3462	3992	2586	1821	735	1501	1099	3953
(WY)	2000	1996	1986	1984	1998	1989	1984	1989	1984	1995	1989	1996
MIN	72.6	65.2	63.3	102	139	233	118	110	126	61.7	61.0	67.8
(WY)	1984	1984	1992	1994	2001	1988	1995	1995	1987	1983	1983	1985

02087183 NEUSE RIVER NEAR FALLS, NC--Continued

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001*	
ANNUAL TOTAL	195090		132397			
ANNUAL MEAN	533		363	‡346	674	(UNADJUSTED)
HIGHEST ANNUAL MEAN					1161	1984
LOWEST ANNUAL MEAN					205	1988
HIGHEST DAILY MEAN	2750	Feb 19	3550	Apr 16	7420	Sep 16 1996
LOWEST DAILY MEAN	89	Dec 15	89	Dec 15	55	Jan 10 1995
ANNUAL SEVEN-DAY MINIMUM	120	Dec 9	120	Dec 9	56	Jan 10 1995
MAXIMUM PEAK FLOW			3790	Apr 15	7650*	Sep 16 1996
MAXIMUM PEAK STAGE			3.97	Apr 15	8.05*	Sep 16 1996
INSTANTANEOUS LOW FLOW			37*	Dec 14	NOT DETERMINED	
10 PERCENT EXCEEDS	1880		539		2300	
50 PERCENT EXCEEDS	155		146		179	
90 PERCENT EXCEEDS	128		128		97	

e Estimated.
† Change in contents, equivalent in cubic feet per second, in Falls Reservoir, provided by U.S. Army Corps of Engineers.
* For regulated period only (1983-2001). See REMARKS.
‡ Adjusted for change in contents.



0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC

LOCATION.--Lat 35°50'43", long 78°43'29", Wake County, Hydrologic Unit 03020201, on downstream side of bridge on Secondary Road 1649, 0.1 mi upstream 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 sea level, from levels. Satellite telemetry at station.

REMARKS.--Records 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e42	e12	e34	14	e27	e37	e1230	16	e364	e20	e52	196
2	e33	e12	e29	13	e23	e34	e957	12	e591	e17	e39	120
3	e26	e12	e26	12	e20	e41	e465	11	e271	e13	e30	77
4	e23	e12	e24	13	e20	e378	e272	13	e141	e20	e23	55
5	e19	e12	e22	15	e45	e266	e164	12	e91	e49	e19	42
6	e17	e12	e20	14	e35	e172	e116	12	e61	e32	18	34
7	e15	e12	e20	14	e29	e112	e89	12	e45	e20	16	26
8	e14	e13	e18	14	e25	e83	e72	12	e33	e27	14	20
9	e13	e13	e17	12	e23	e68	e61	12	e26	e48	13	e17
10	e13	e13	e17	10	e24	e54	e52	12	e20	e130	13	e16
11	e13	e13	e17	11	e22	e45	e44	12	e17	e52	55	14
12	e13	e13	e18	12	e32	e40	e38	14	e15	e35	352	12
13	e13	e13	e17	9.6	e53	e42	e35	19	e20	e26	226	11
14	e13	e44	e17	9.4	e60	e36	e30	14	e218	e20	275	9.6
15	e13	e29	e17	12	e61	e56	e26	13	e368	e16	155	8.9
16	e13	e17	e42	12	e53	e68	e25	e86	e371	e12	93	9.0
17	e13	e17	e138	16	e385	e55	e23	e56	e516	e10	63	9.5
18	e13	e15	e92	17	e239	e45	e22	e53	e208	e11	51	8.5
19	e12	e25	e73	19	e142	e38	e20	e44	e95	e10	51	8.2
20	e12	e38	e71	e81	e97	e80	e19	e104	e59	e8.7	45	8.3
21	e12	e26	e54	e67	e72	e1340	e17	e73	e42	e6.4	44	8.4
22	e12	e17	e45	e50	e71	e957	e17	e59	e41	e5.6	36	7.5
23	e12	e15	e35	e42	e72	e447	e16	e47	e80	e5.4	28	7.6
24	e12	e14	26	e35	e61	e244	e23	e34	e76	e9.4	51	12
25	e12	e87	20	e30	e56	e146	e91	e26	e88	e7.3	49	13
26	e12	e165	19	e26	e57	e104	e64	e28	e74	e11	37	9.3
27	e12	e91	23	e23	e49	e78	39	e28	e64	e480	29	8.4
28	e12	e71	22	e21	e42	e62	32	e36	e39	e191	52	7.6
29	e12	e54	19	e20	---	e603	25	e44	e35	e122	51	6.8
30	e13	e42	17	e36	---	e948	19	e37	e26	e96	69	6.9
31	e12	---	15	e35	---	e622	---	e28	---	e70	312	---
TOTAL	476	929	1024	715.0	1895	7301	4103	979	4095	1580.8	2361	789.5
MEAN	15.4	31.0	33.0	23.1	67.7	236	137	31.6	136	51.0	76.2	26.3
MAX	42	165	138	81	385	1340	1230	104	591	480	352	196
MIN	12	12	15	9.4	20	34	16	11	15	5.4	13	6.8
CFSM	.20	.41	.43	.30	.89	3.10	1.80	.42	1.80	.67	1.00	.35
IN.	.23	.45	.50	.35	.93	3.57	2.01	.48	2.00	.77	1.16	.39

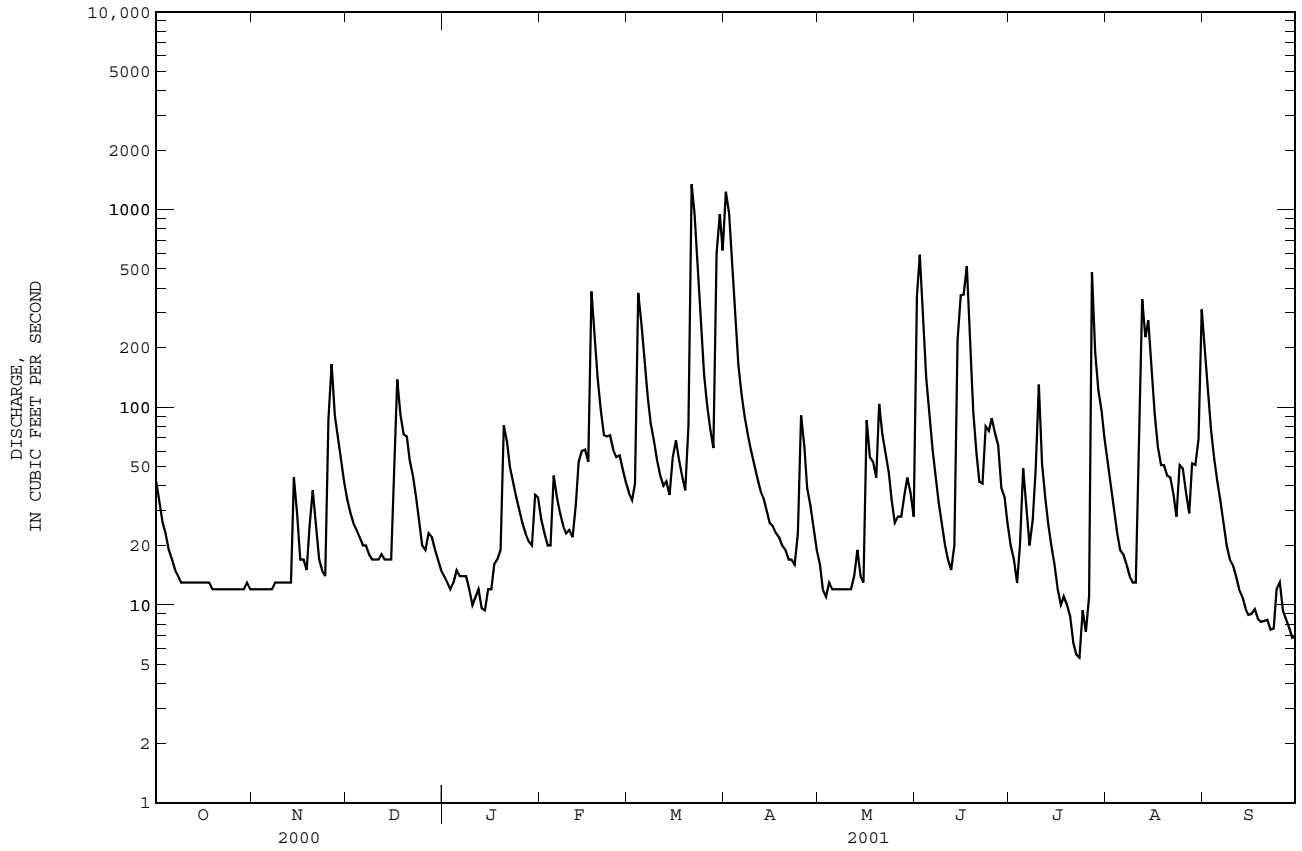
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001,@ BY WATER YEAR (WY)

MEAN	56.0	50.5	51.9	133	133	169	84.4	53.7	50.6	51.6	54.9	98.9
MAX	130	104	143	370	364	393	143	144	136	113	131	743
(WY)	2000	1990	1990	1998	1998	1998	1989	1989	2001	1997	2000	1999
MIN	13.6	23.8	14.4	23.1	16.2	25.0	32.5	15.7	9.34	9.15	6.74	5.35
(WY)	1992	1992	1991	2001	1991	1988	1992	1992	1999	1988	1990	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001@	
ANNUAL TOTAL	26808.0		26248.3			
ANNUAL MEAN	73.2		71.9		87.8	
HIGHEST ANNUAL MEAN					129	1998
LOWEST ANNUAL MEAN					46.6	1992
HIGHEST DAILY MEAN	1120	Aug 2	1340	Mar 21	3250	Sep 16 1999
LOWEST DAILY MEAN	8.5	Jun 18	5.4	Jul 23	2.1	Dec 18 1990
ANNUAL SEVEN-DAY MINIMUM	9.1	Jul 6	7.5	Jul 19	2.6	Dec 12 1990
MAXIMUM PEAK FLOW			NOT DETERMINED		4720	Sep 16 1999
MAXIMUM PEAK STAGE			NOT DETERMINED		19.78	Sep 16 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		1.5*	Oct 12 1997
ANNUAL RUNOFF (CFSM)	.96		.95		1.16	
ANNUAL RUNOFF (INCHES)	13.12		12.85		15.70	
10 PERCENT EXCEEDS	175		141		179	
50 PERCENT EXCEEDS	31		26		31	
90 PERCENT EXCEEDS	11		12		8.5	

e Estimated.
@ See PERIOD OF RECORD.
* See REMARKS.

0208726005 CRABTREE CREEK AT EBENEZER CHURCH ROAD NEAR RALEIGH, NC--Continued



02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC

LOCATION.--Lat 35°50'15", long 78°40'26", 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 sea level. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Minimum for current water year also occurred July 23.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	18	47	21	38	51	1390	26	442	29	63	231
2	46	18	40	21	33	47	1100	23	698	25	52	150
3	37	18	36	20	29	55	557	21	334	19	42	101
4	32	18	34	22	29	458	336	20	180	28	33	76
5	27	18	31	23	61	329	208	16	119	67	27	62
6	25	18	29	22	49	218	149	16	82	45	24	53
7	22	18	28	22	40	144	116	15	61	29	20	45
8	20	19	26	27	35	108	95	14	46	38	18	34
9	19	19	24	26	32	89	81	14	37	65	17	29
10	19	19	25	23	34	72	70	15	29	167	18	28
11	19	19	25	21	31	62	60	15	25	71	83	24
12	19	19	26	21	45	55	53	22	22	48	379	19
13	19	19	24	20	71	57	48	36	28	36	265	17
14	19	60	24	20	80	50	42	21	272	29	324	16
15	19	41	25	21	81	74	36	22	446	23	179	14
16	19	25	58	21	71	89	35	112	450	18	113	14
17	19	25	176	19	466	73	32	76	614	15	79	15
18	19	22	119	19	297	62	31	71	260	16	69	15
19	18	35	95	23	182	53	28	60	125	15	70	14
20	18	53	93	105	125	106	27	136	79	13	64	17
21	18	36	72	89	94	1510	25	96	57	9.8	61	16
22	18	25	62	68	93	1100	24	79	56	8.6	53	15
23	18	22	49	57	95	536	23	64	106	8.3	43	17
24	18	21	41	48	81	303	33	47	101	14	75	35
25	17	115	35	42	75	187	119	36	116	11	66	31
26	17	207	30	36	77	134	86	39	98	16	53	19
27	17	114	29	32	66	101	55	39	86	533	45	17
28	18	91	27	30	58	82	43	50	54	240	72	15
29	18	72	25	28	---	710	35	60	49	154	67	14
30	19	58	24	50	---	1090	31	51	37	118	84	14
31	18	---	23	48	---	733	---	39	---	83	345	---
TOTAL	688	1262	1402	1045	2468	8738	4968	1351	5109	1991.7	2903	1167
MEAN	22.2	42.1	45.2	33.7	88.1	282	166	43.6	170	64.2	93.6	38.9
MAX	57	207	176	105	466	1510	1390	136	698	533	379	231
MIN	17	18	23	19	29	47	23	14	22	8.3	17	14
CFSM	.23	.43	.46	.35	.90	2.89	1.70	.45	1.74	.66	.96	.40
IN.	.26	.48	.53	.40	.94	3.33	1.89	.51	1.95	.76	1.11	.44

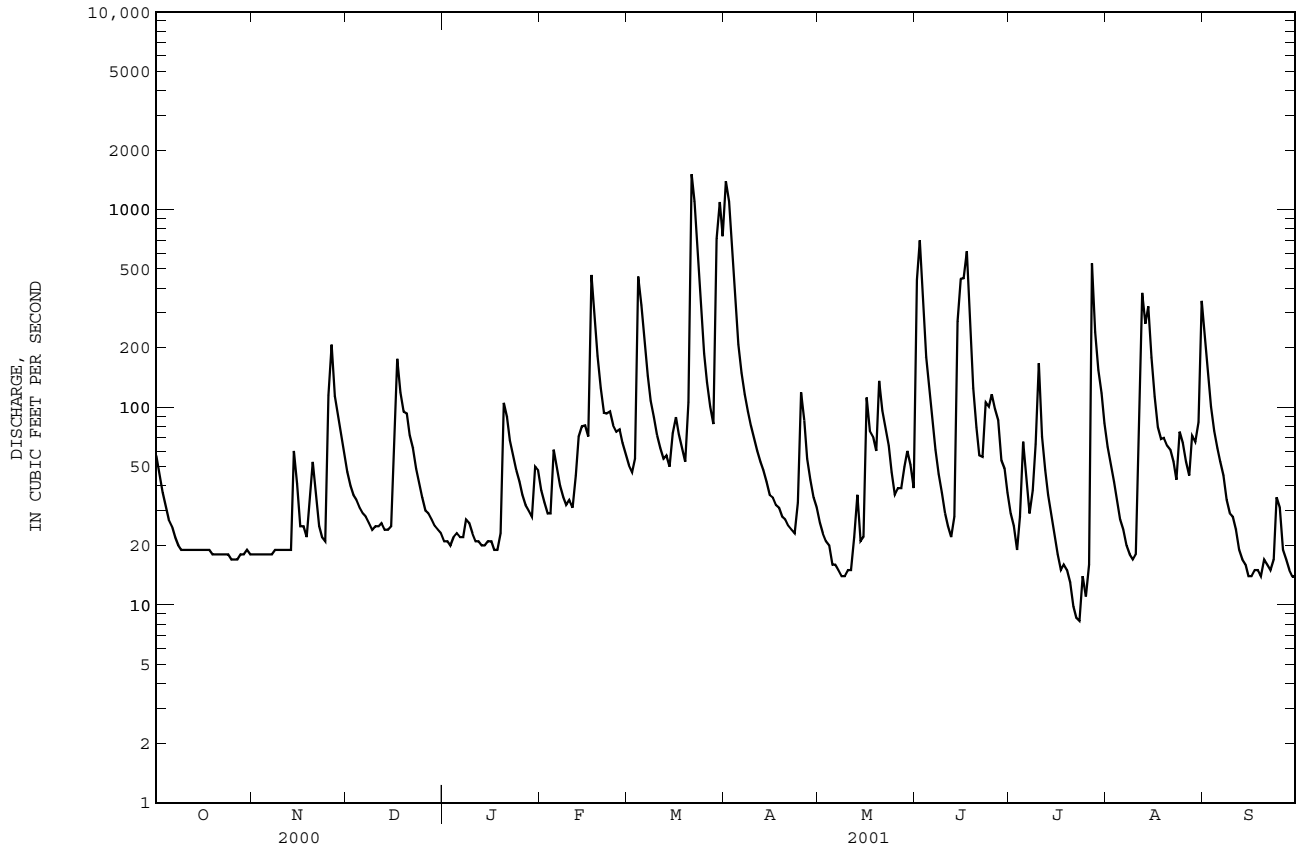
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	67.9	49.7	74.1	224	201	235	114	48.8	64.0	79.6	79.7	238
MAX	160	80.8	92.4	422	412	429	166	73.1	170	166	161	939
(WY)	2000	1998	2000	1998	1998	1998	2001	1998	2001	1997	2000	1999
MIN	22.2	37.1	45.2	33.7	87.8	75.4	74.4	39.3	13.1	26.0	23.7	23.3
(WY)	2001	2000	2001	2001	1999	2000	1999	1999	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	34954		33092.7			
ANNUAL MEAN	95.5		90.7		126	
HIGHEST ANNUAL MEAN					155	1998
LOWEST ANNUAL MEAN					90.7	2001
HIGHEST DAILY MEAN	1370	Aug 2	1510	Mar 21	5030	Sep 16 1999
LOWEST DAILY MEAN	12	Jul 12	8.3	Jul 23	7.4	Aug 7 1999
ANNUAL SEVEN-DAY MINIMUM	14	Jul 6	11	Jul 19	8.2	Oct 8 1997
MAXIMUM PEAK FLOW			2270	Jun 16	7080	Sep 16 1999
MAXIMUM PEAK STAGE			12.94	Jun 16	21.50	Sep 16 1999
INSTANTANEOUS LOW FLOW			4.8*	Jul 22	3.8	Aug 9 1999
ANNUAL RUNOFF (CFSM)	.98		.93		1.29	
ANNUAL RUNOFF (INCHES)	13.32		12.61		17.58	
10 PERCENT EXCEEDS	221		179		239	
50 PERCENT EXCEEDS	46		37		48	
90 PERCENT EXCEEDS	18		18		15	

* See REMARKS.

02087275 CRABTREE CREEK AT US HIGHWAY 70 AT RALEIGH, NC--Continued



0208731190 CRABTREE CREEK AT ANDERSON DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°49'16", long 78°37'34", 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 sea level. Satellite and telephone telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of September 1996 reached a stage of 23.1 ft from flood marks.

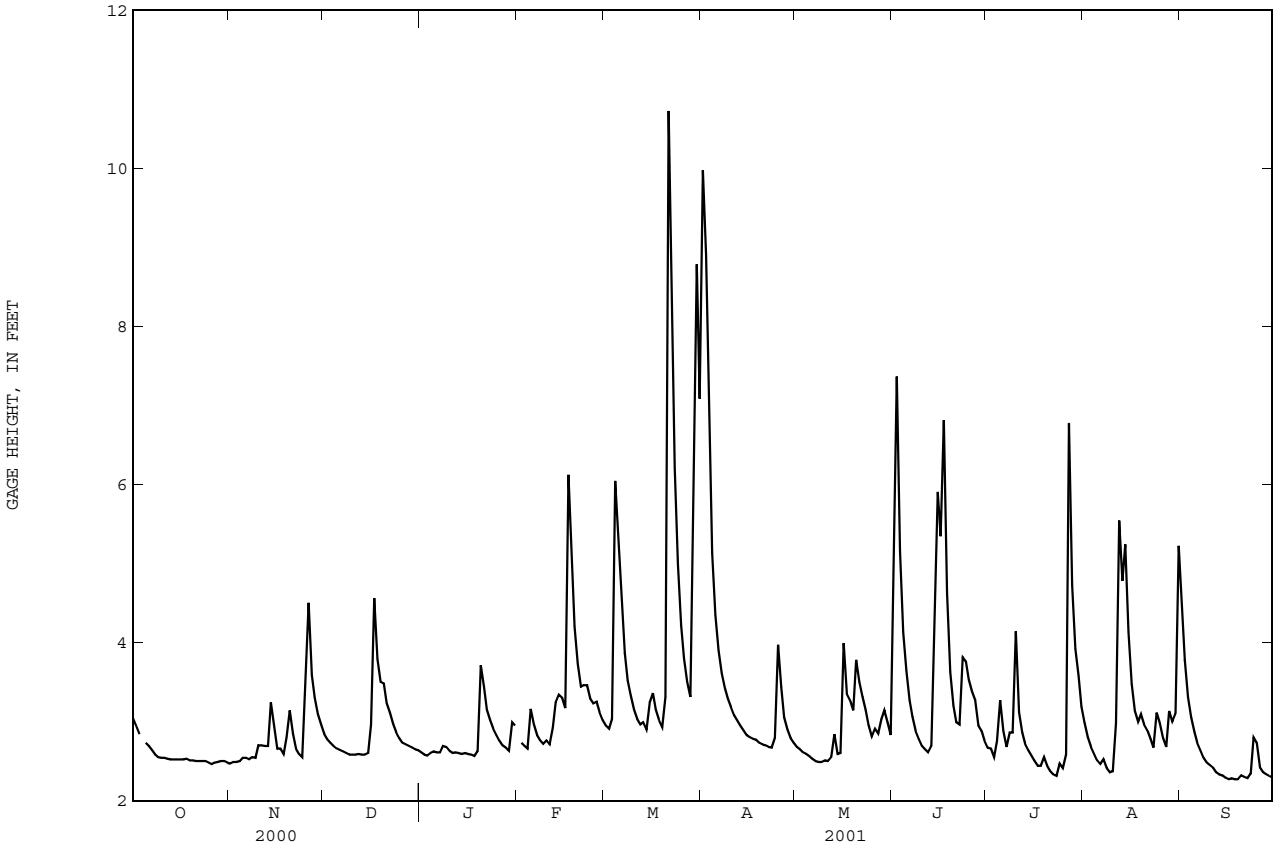
EXTREMES FOR PERIOD OF RECORD.--Maximum, 21.04 ft, Sep. 16, 1999; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 12.31 ft, June 16; minimum, 2.21 ft, Sept. 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.04	2.47	2.84	2.61	---	2.95	9.97	2.68	5.21	2.67	2.98	4.44
2	2.94	2.49	2.77	2.58	2.73	2.91	8.90	2.65	7.36	2.66	2.80	3.78
3	2.84	2.49	2.73	2.57	2.69	3.03	6.30	2.61	5.16	2.55	2.68	3.31
4	---	2.50	2.69	2.60	2.66	6.04	5.13	2.59	4.13	2.75	2.59	3.05
5	2.73	2.54	2.66	2.62	3.16	5.18	4.35	2.56	3.64	3.27	2.51	2.87
6	2.69	2.54	2.64	2.61	2.96	4.44	3.90	2.53	3.27	2.88	2.46	2.73
7	2.64	2.52	2.62	2.61	2.83	3.87	3.61	2.50	3.06	2.68	2.52	2.64
8	2.58	2.55	2.60	2.69	2.76	3.52	3.42	2.49	2.88	2.86	2.41	2.54
9	2.55	2.54	2.58	2.68	2.72	3.32	3.29	2.49	2.78	2.86	2.36	2.48
10	2.54	2.70	2.58	2.63	2.76	3.15	3.18	2.51	2.69	4.14	2.37	2.45
11	2.54	2.70	2.58	2.60	2.71	3.03	3.08	2.50	2.65	3.12	2.98	2.42
12	2.53	2.69	2.59	2.61	2.92	2.96	3.01	2.55	2.61	2.86	5.54	2.36
13	2.52	2.69	2.58	2.60	3.24	2.99	2.95	2.84	2.69	2.72	4.78	2.33
14	2.52	3.24	2.58	2.59	3.34	2.90	2.89	2.59	4.63	2.64	5.24	2.32
15	2.52	2.96	2.60	2.60	3.30	3.24	2.83	2.60	5.90	2.57	4.13	2.29
16	2.52	2.66	2.96	2.59	3.17	3.36	2.80	3.99	5.34	2.50	3.48	2.27
17	2.52	2.66	4.56	2.58	6.12	3.15	2.78	3.35	6.81	2.44	3.13	2.28
18	2.53	2.59	3.79	2.56	5.04	3.02	2.77	3.27	4.63	2.44	3.00	2.27
19	2.51	2.80	3.50	2.62	4.20	2.93	2.73	3.14	3.63	2.55	3.09	2.27
20	2.51	3.14	3.48	3.71	3.73	3.31	2.71	3.78	3.20	2.44	2.96	2.32
21	2.50	2.85	3.23	3.44	3.44	10.72	2.70	3.50	2.99	2.37	2.89	2.30
22	2.50	2.65	3.11	3.15	3.46	8.88	2.68	3.31	2.96	2.33	2.78	2.28
23	2.50	2.59	2.97	3.02	3.46	6.21	2.67	3.14	3.81	2.31	2.67	2.34
24	2.50	2.55	2.86	2.91	3.29	4.99	2.79	2.95	3.76	2.47	3.11	2.80
25	2.48	3.59	2.79	2.83	3.23	4.22	3.97	2.81	3.53	2.41	2.98	2.73
26	2.46	4.50	2.73	2.76	3.25	3.80	3.43	2.91	3.38	2.58	2.79	2.42
27	2.48	3.59	2.71	2.70	3.12	3.50	3.05	2.85	3.27	6.77	2.68	2.36
28	2.49	3.30	2.69	2.67	3.02	3.31	2.90	3.03	2.95	4.72	3.13	2.33
29	2.50	3.09	2.67	2.63	---	6.71	2.79	3.14	2.88	3.92	3.00	2.31
30	2.50	2.96	2.65	2.99	---	8.78	2.73	2.99	2.76	3.58	3.10	2.29
31	2.48	---	2.64	2.95	---	7.08	---	2.83	---	3.19	5.22	---
MEAN	---	2.84	2.87	2.75	---	4.44	3.68	2.89	3.82	2.98	3.17	2.59
MAX	---	4.50	4.56	3.71	---	10.72	9.97	3.99	7.36	6.77	5.54	4.44
MIN	---	2.47	2.58	2.56	---	2.90	2.67	2.49	2.61	2.31	2.36	2.27

0208731190 CRABTREE CREEK AT ANDERSON DRIVE AT RALEIGH, NC--Continued



02087322 CRABTREE CREEK AT OLD WAKE FOREST ROAD AT RALEIGH, NC

LOCATION.--Lat 35°48'57", long 78°37'33", 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 sea level. Satellite and telephone telemetry at site.

EXTREMES FOR PERIOD OF RECORD.-- Maximum, 19.93 ft, Sept. 16, 1999; minimum, 1.25 ft, Aug. 2-5, 1999.

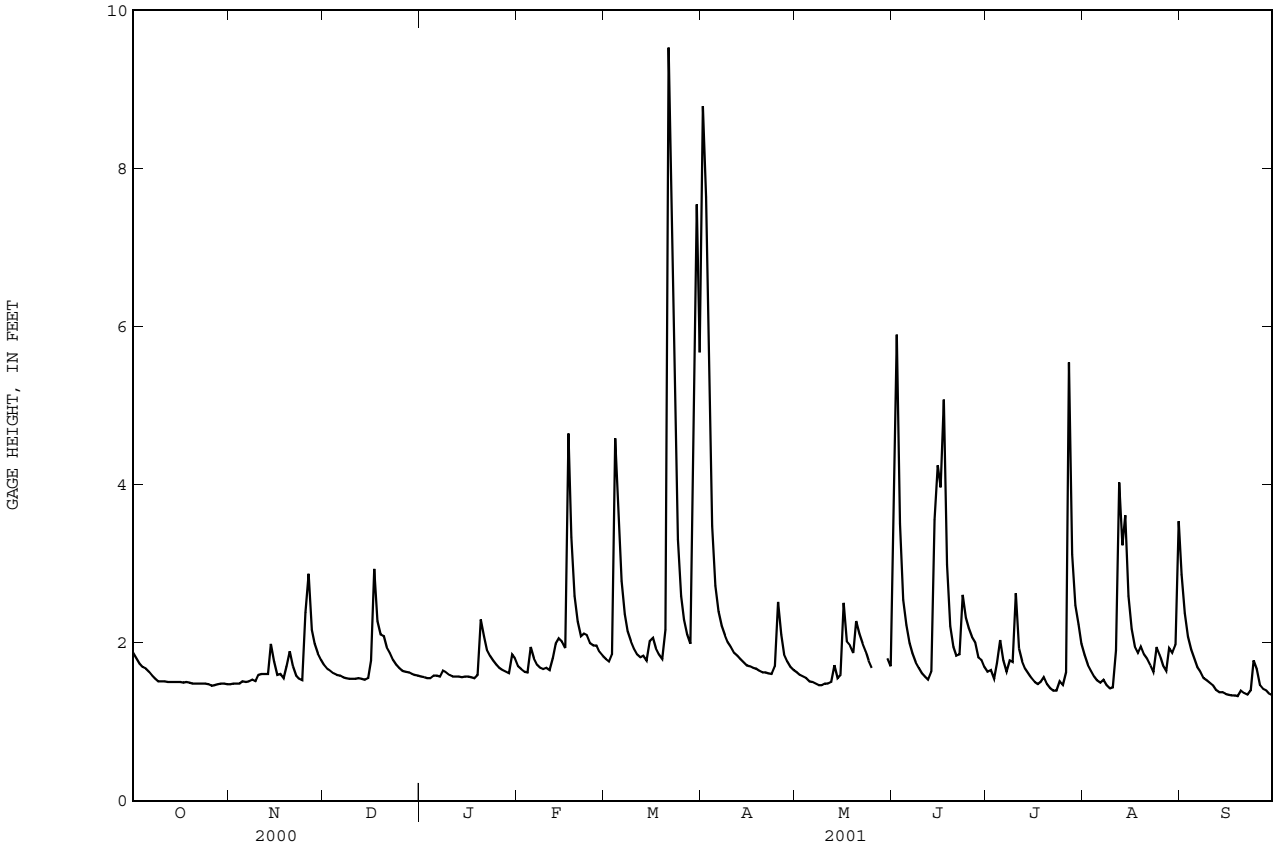
EXTREME OUTSIDE PERIOD OF RECORD.--Flood of Sept. 1996 reached a stage of 21.6 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Maximum, 11.08 ft, July 27; minimum, 1.26 ft, Sept. 17.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.87	1.47	1.71	1.57	1.70	1.79	8.78	1.62	4.08	1.63	1.84	2.86
2	1.80	1.48	1.66	1.56	1.66	1.76	7.63	1.59	5.89	1.65	1.72	2.37
3	1.73	1.48	1.64	1.55	1.63	1.85	4.79	1.57	3.50	1.54	1.64	2.07
4	1.69	1.48	1.61	1.55	1.62	4.58	3.47	1.55	2.54	1.74	1.57	1.91
5	1.67	1.51	1.59	1.58	1.94	3.51	2.72	1.51	2.22	2.03	1.52	1.79
6	1.63	1.50	1.58	1.58	1.80	2.78	2.39	1.50	1.99	1.77	1.49	1.69
7	1.58	1.51	1.56	1.57	1.72	2.36	2.21	1.48	1.86	1.63	1.53	1.63
8	1.54	1.53	1.55	1.64	1.68	2.14	2.09	1.46	1.75	1.77	1.46	1.55
9	1.51	1.51	1.54	1.62	1.66	2.02	2.00	1.46	1.68	1.75	1.42	1.52
10	1.51	1.59	1.54	1.59	1.68	1.92	1.94	1.48	1.61	2.62	1.43	1.49
11	1.51	1.60	1.54	1.57	1.65	1.85	1.87	1.48	1.57	1.92	1.90	1.46
12	1.50	1.60	1.55	1.57	1.80	1.81	1.83	1.50	1.53	1.76	4.02	1.40
13	1.50	1.60	1.54	1.57	1.98	1.83	1.79	1.71	1.63	1.67	3.23	1.37
14	1.50	1.98	1.53	1.56	2.05	1.77	1.75	1.55	3.55	1.61	3.61	1.37
15	1.50	1.76	1.55	1.57	2.01	2.02	1.71	1.59	4.24	1.55	2.59	1.35
16	1.50	1.59	1.77	1.57	1.93	2.06	1.70	2.50	3.96	1.50	2.17	1.34
17	1.49	1.60	2.93	1.56	4.64	1.93	1.68	2.01	5.07	1.47	1.95	1.33
18	1.50	1.55	2.27	1.55	3.33	1.85	1.67	1.96	2.98	1.50	1.87	1.33
19	1.49	1.70	2.10	1.59	2.59	1.79	1.64	1.87	2.21	1.56	1.95	1.32
20	1.48	1.89	2.08	2.29	2.26	2.16	1.62	2.27	1.94	1.47	1.85	1.39
21	1.48	1.70	1.94	2.08	2.08	9.52	1.62	2.11	1.83	1.42	1.79	1.36
22	1.48	1.58	1.87	1.91	2.11	7.63	1.61	1.99	1.85	1.39	1.71	1.34
23	1.48	1.54	1.78	1.83	2.09	4.67	1.60	1.89	2.60	1.39	1.63	1.39
24	1.48	1.52	1.72	1.77	1.99	3.30	1.70	1.77	2.31	1.51	1.94	1.77
25	1.47	2.38	1.68	1.72	1.96	2.59	2.51	1.68	2.18	1.46	1.84	1.66
26	1.45	2.87	1.64	1.68	1.96	2.29	2.10	---	2.07	1.62	1.71	1.46
27	1.46	2.16	1.63	1.65	1.88	2.10	1.85	---	2.00	5.54	1.64	1.41
28	1.47	1.98	1.62	1.63	1.83	1.98	1.76	---	1.81	3.11	1.93	1.39
29	1.48	1.86	1.60	1.61	---	5.47	1.69	---	1.78	2.47	1.87	1.35
30	1.48	1.78	1.59	1.85	---	7.54	1.65	1.80	1.69	2.23	1.97	1.33
31	1.47	---	1.58	1.80	---	5.67	---	1.70	---	1.98	3.53	---
MEAN	1.54	1.71	1.73	1.67	2.04	3.11	2.45	---	2.53	1.88	2.01	1.57
MAX	1.87	2.87	2.93	2.29	4.64	9.52	8.78	---	5.89	5.54	4.02	2.86
MIN	1.45	1.47	1.53	1.55	1.62	1.76	1.60	---	1.53	1.39	1.42	1.32

02087322 CRABTREE CREEK AT OLD WAKE FOREST ROAD AT RALEIGH, NC--Continued



02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC

LOCATION.--Lat 35°48'40", long 78°36'43", 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 sea level. Prior to Aug. 8, 1999, at site 40 ft upstream at datum 183.27 ft above sea level. Satellite and telephone telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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 year also occurred Sept. 17-20.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	32	55	32	45	54	1480	41	548	52	62	239
2	64	33	50	31	41	50	1210	38	802	56	48	147
3	55	34	47	30	38	65	579	36	357	45	39	92
4	50	35	44	e32	36	562	358	34	191	93	33	67
5	48	38	42	33	79	373	231	31	131	124	29	53
6	44	37	40	33	57	244	168	30	90	73	26	42
7	40	38	39	32	47	168	133	28	71	55	29	36
8	36	40	38	39	43	131	110	28	56	81	24	29
9	34	38	37	37	40	110	95	28	48	70	21	28
10	34	48	36	33	43	92	84	29	41	214	22	25
11	33	50	36	32	40	80	74	29	38	93	70	23
12	33	50	37	32	62	74	67	29	35	68	454	20
13	33	51	36	32	84	77	62	53	48	57	304	18
14	33	115	36	31	98	69	56	35	346	52	365	18
15	33	65	37	31	88	112	51	43	505	47	187	17
16	33	42	63	31	75	115	49	192	392	43	110	16
17	32	42	290	30	584	92	48	97	752	40	75	17
18	34	37	149	29	350	79	47	86	274	42	63	17
19	33	61	110	33	207	71	44	73	137	48	78	16
20	33	84	107	158	134	133	43	137	87	40	61	22
21	33	57	80	108	99	1670	42	112	79	35	53	19
22	33	42	68	75	108	1180	41	91	66	33	44	17
23	33	37	57	62	101	560	40	74	185	32	37	21
24	33	34	48	54	84	330	53	59	189	45	77	84
25	32	186	43	48	80	209	195	48	136	37	60	47
26	30	278	39	43	80	158	111	68	120	61	45	24
27	32	131	39	39	67	126	70	50	109	909	38	21
28	33	98	37	37	59	105	56	70	76	285	71	19
29	33	77	36	35	---	783	49	80	68	165	62	18
30	33	65	34	68	---	1160	44	61	59	129	83	18
31	32	---	34	56	---	756	---	50	---	84	356	---
TOTAL	1165	1975	1844	1396	2869	9788	5690	1860	6036	3208	3026	1230
MEAN	37.6	65.8	59.5	45.0	102	316	190	60.0	201	103	97.6	41.0
MAX	73	278	290	158	584	1670	1480	192	802	909	454	239
MIN	30	32	34	29	36	50	40	28	35	32	21	16
CFSM	.31	.54	.49	.37	.85	2.61	1.57	.50	1.66	.86	.81	.34
IN.	.36	.61	.57	.43	.88	3.01	1.75	.57	1.86	.99	.93	.38

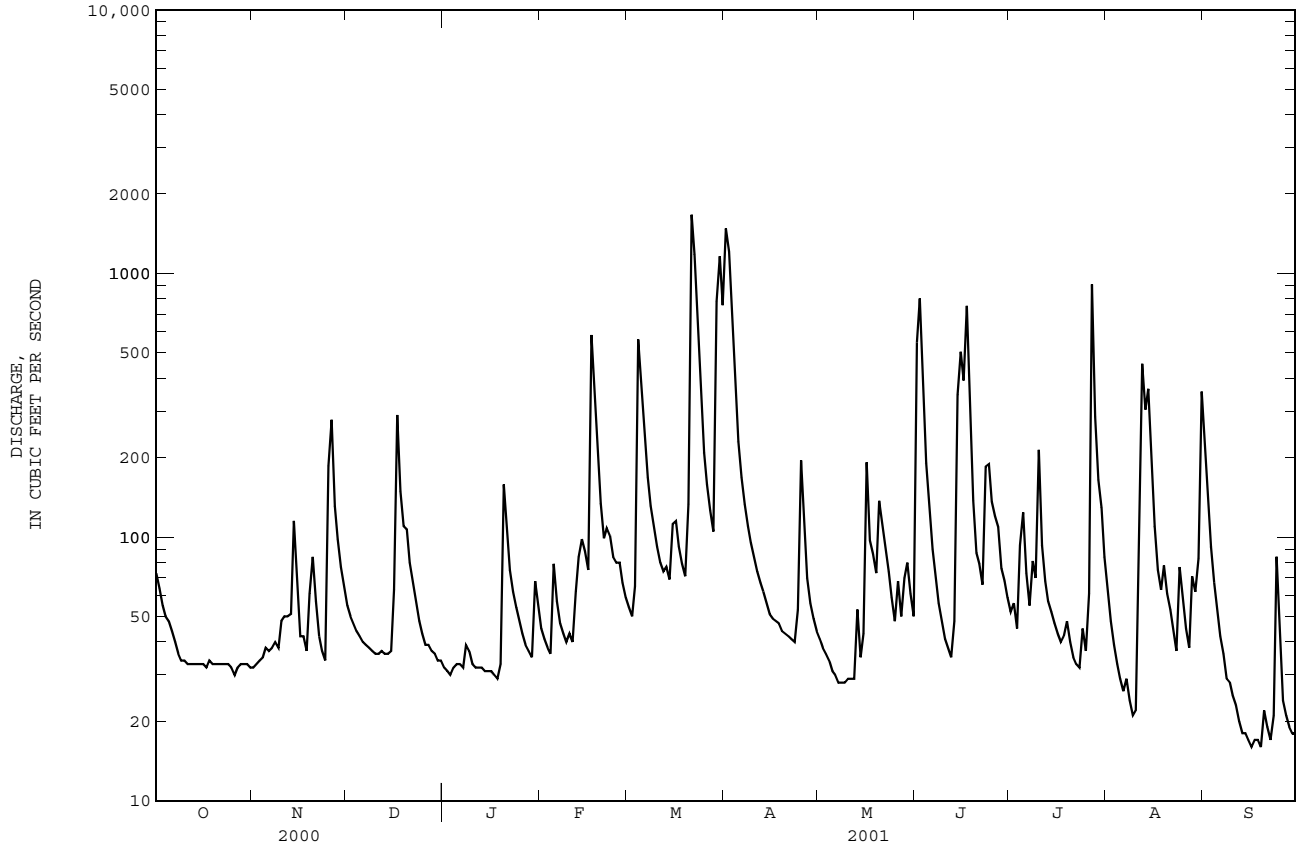
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2001, BY WATER YEAR (WY)

MEAN	121	97.4	101	242	199	241	139	77.5	114	90.7	84.3	228
MAX	370	255	176	495	483	494	355	122	257	198	176	1162
(WY)	1996	1993	1997	1998	1998	1998	1993	1996	1990	1997	2000	1999
MIN	30.8	23.2	45.2	45.0	59.5	103	57.4	45.6	21.3	30.7	31.7	14.2
(WY)	1992	1992	1995	2001	1991	2000	1995	1995	1999	1993	1993	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1990 - 2001	
ANNUAL TOTAL	46394		40087			
ANNUAL MEAN	127		110		145	
HIGHEST ANNUAL MEAN					242	1996
LOWEST ANNUAL MEAN					97.7	1991
HIGHEST DAILY MEAN	1540	Aug 2	1670	Mar 21	7730	Sep 6 1996
LOWEST DAILY MEAN	22	Jul 11	16	Sep 16	1.9	Oct 8 1994
ANNUAL SEVEN-DAY MINIMUM	26	Jul 8	17	Sep 13	2.3	Oct 2 1994
MAXIMUM PEAK FLOW			2480	Jul 27	12700	Sep 6 1996
MAXIMUM PEAK STAGE			10.37	Jul 27	18.23*	Sep 6 1996
INSTANTANEOUS LOW FLOW			14*	Sep 16	1.9*	Oct 7 1994
ANNUAL RUNOFF (CFSM)	1.05		.91		1.20	
ANNUAL RUNOFF (INCHES)	14.26		12.32		16.32	
10 PERCENT EXCEEDS	296		208		295	
50 PERCENT EXCEEDS	64		50		68	
90 PERCENT EXCEEDS	31		30		20	

e Estimated.
* See REMARKS.

02087324 CRABTREE CREEK AT US HIGHWAY 1 AT RALEIGH, NC--Continued



0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC

LOCATION.--Lat 35°47'14", 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 sea level from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge occurred on many days.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	.03	.07	.02	.02	.03	2.5	.04	4.0	.02	.02	.10
2	.04	.03	.18	.02	.02	.03	.23	.04	.11	.02	.02	.02
3	.04	.03	.08	.02	.02	.50	.20	.04	.04	.02	.02	.02
4	.04	.04	.07	.02	.08	1.9	.10	.03	.04	2.8	.02	.02
5	.04	.08	.08	.02	.15	.12	.09	.04	.25	.09	.01	.02
6	.03	.04	.06	.02	.02	.04	.09	.03	.08	.02	.01	.01
7	.04	.04	.06	.02	.02	.04	.08	.03	.10	.02	.07	.01
8	.04	.05	.05	.10	.02	.04	.06	.03	.03	.25	.01	.01
9	.04	.08	.05	.02	.02	.04	.06	.03	.06	.69	.01	.01
10	.03	e.04	.06	.02	.05	.04	.05	.09	.13	.07	.01	.03
11	.04	e.03	.07	.02	.02	.04	.05	.03	.09	.02	1.1	.02
12	.04	e.03	.06	.02	.23	.08	.05	.13	.03	.02	.65	.01
13	.03	e.07	.05	.02	.05	.06	.05	.04	.32	.02	1.0	.01
14	.03	1.3	.10	.03	.16	.03	.05	.03	2.8	.01	.09	.01
15	.03	.03	.05	.02	.02	.66	.05	.93	.79	.01	.02	.01
16	.03	.03	.28	.02	.05	.05	.05	.27	13	.01	.02	.01
17	.03	.15	1.9	.02	1.7	.05	.10	.05	.11	.02	.01	.01
18	.04	.03	.02	.02	.04	.05	.04	.05	.02	.02	.09	.01
19	.03	.67	.12	.10	.05	.05	.04	.03	.01	.02	.47	.01
20	.03	.41	.02	.59	.04	3.3	.04	.12	.01	.01	.02	.07
21	.03	e.04	.02	e.08	.03	2.9	.04	.13	.11	.01	.02	.01
22	.03	e.03	.03	e.02	.33	.20	.04	.06	e.02	.02	.01	.01
23	.03	e.03	.02	e.02	.05	.06	.04	.04	e.02	.02	.01	.01
24	.03	e.14	.02	e.02	.04	.05	1.5	.05	e.02	.10	.16	2.4
25	.04	e5.3	.02	e.02	.20	.04	1.4	.04	e.02	.02	.01	.03
26	.03	e.08	.02	e.02	.04	.04	.05	.97	e.02	.41	.01	.01
27	e.03	e.05	.02	e.02	.03	.04	.04	.03	.02	6.9	.01	.01
28	e.03	e.05	.02	e.02	.03	.04	.04	.63	.02	.02	.03	.01
29	e.03	.07	.02	e.02	---	4.2	.04	.18	.02	.05	.01	.01
30	e.04	.06	.02	.29	---	.16	.04	.03	.02	.11	1.2	.01
31	e.03	---	.02	.02	---	2.1	---	.18	---	.02	.10	---
TOTAL	1.06	9.06	3.66	1.69	3.53	16.98	7.21	4.42	22.31	11.84	5.24	2.93
MEAN	.034	.30	.12	.055	.13	.55	.24	.14	.74	.38	.17	.098
MAX	.04	5.3	1.9	.59	1.7	4.2	2.5	.97	13	6.9	1.2	2.4
MIN	.03	.03	.02	.02	.02	.03	.04	.03	.01	.01	.01	.01
CFSM	.13	1.12	.44	.20	.47	2.03	.89	.53	2.75	1.41	.63	.36
IN.	.15	1.25	.50	.23	.49	2.34	.99	.61	3.07	1.63	.72	.40

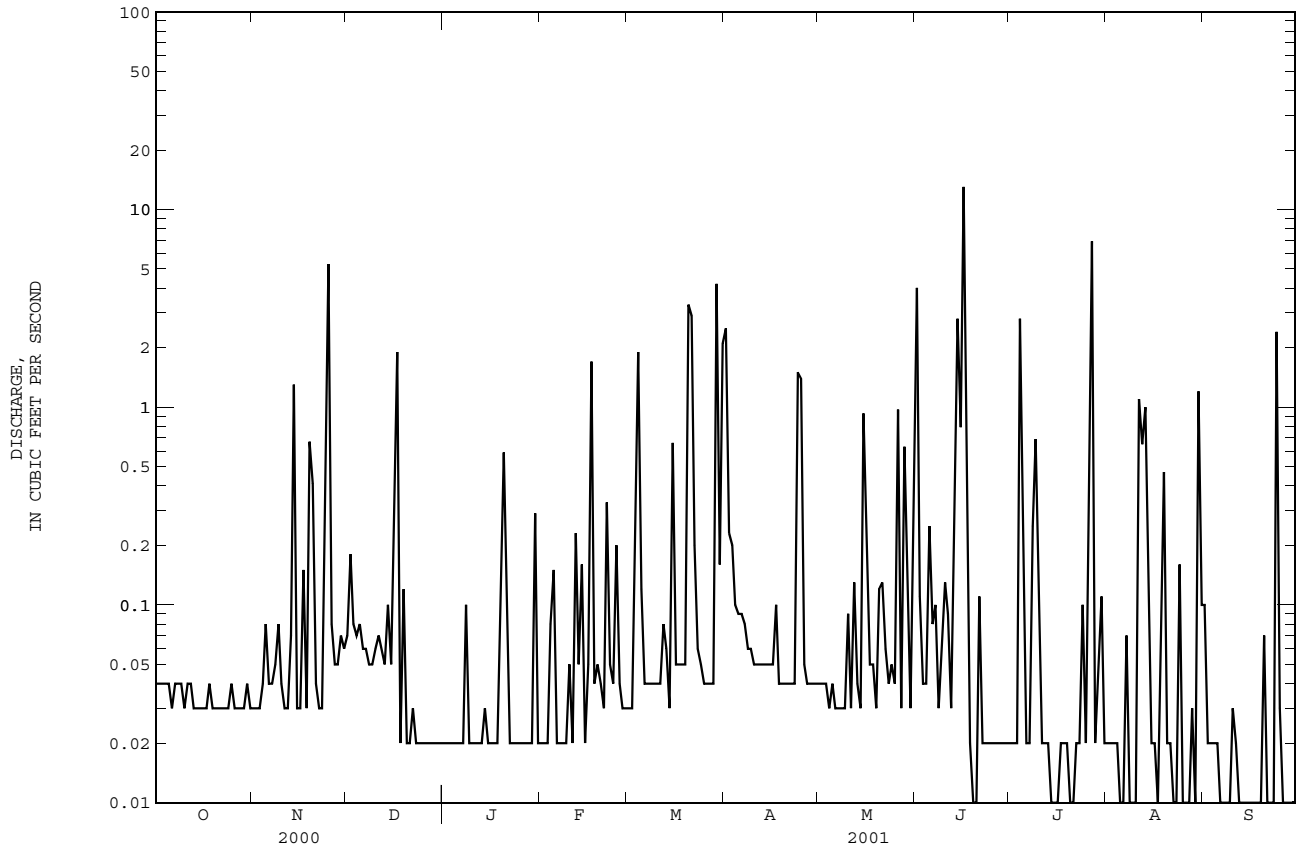
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	.29	.36	.35	.71	.50	.69	.39	.30	.44	.54	.49	.86
MAX	.46	.46	.51	1.32	1.02	1.31	.63	.60	.74	.90	.71	2.78
(WY)	2000	1998	1998	1998	1998	1998	1997	1997	2001	1998	1999	1999
MIN	.034	.21	.12	.055	.13	.42	.24	.14	.18	.21	.17	.098
(WY)	2001	2000	2001	2001	2001	2000	2001	2001	1999	1999	2001	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	142.30		89.93			
ANNUAL MEAN	.39		.25		.49	
HIGHEST ANNUAL MEAN					.69	1998
LOWEST ANNUAL MEAN					.25	2001
HIGHEST DAILY MEAN	8.0	Jul 15	13	Jun 16	15	Aug 31 1997
LOWEST DAILY MEAN	.02	Dec 18	.01	Jun 19	.01	Jun 19 2001
ANNUAL SEVEN-DAY MINIMUM	.02	Dec 23	.01	Sep 12	.01	Sep 12 2001
MAXIMUM PEAK FLOW			189	Jun 16	622	Aug 21 1999
MAXIMUM PEAK STAGE			4.69	Jun 16	8.23	Aug 21 1999
INSTANTANEOUS LOW FLOW			.01*	Dec 19	.01	Nov 8 1997
ANNUAL RUNOFF (CFSM)	1.44		.91		1.82	
ANNUAL RUNOFF (INCHES)	19.61		12.39		24.77	
10 PERCENT EXCEEDS	.87		.30		1.0	
50 PERCENT EXCEEDS	.12		.04		.12	
90 PERCENT EXCEEDS	.03		.01		.03	

e Estimated.
* See REMARKS.

0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC--Continued



0208732534 PIGEON HOUSE CREEK AT CAMERON VILLAGE AT RALEIGH, NC--Continued

PRECIPITATION RECORDS

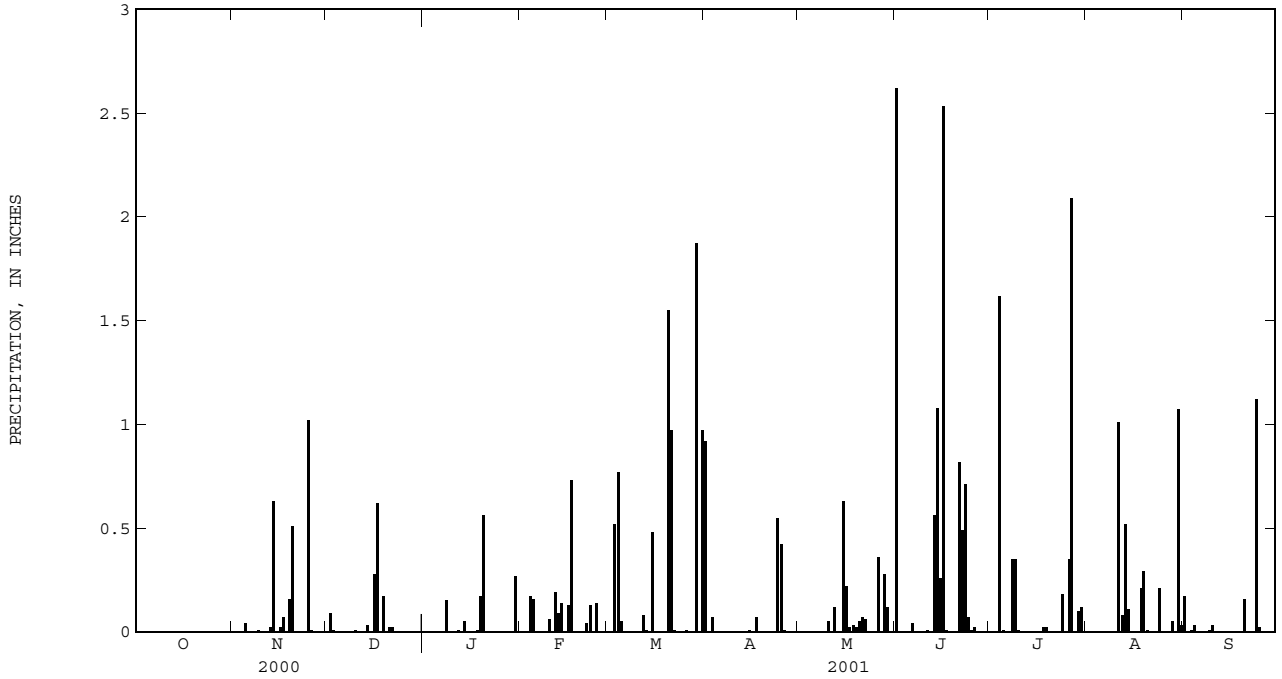
PERIOD OF RECORD.--July 1987 to current year. Records from July 1987 to January 2000 are unpublished and available in the USGS District Office in Raleigh, NC.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.92	.00	2.62	.00	.00	.17
2	.00	.00	.09	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.01	.00	.00	.52	.07	.00	.00	.00	.00	.01
4	.00	.00	.00	.00	.17	.77	.00	.00	.00	1.62	.00	.03
5	.00	.04	.00	.00	.16	.05	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.15	.00	.00	.00	.00	.00	.35	.00	.00
9	.00	.01	.00	.00	.00	.00	.00	.00	.00	.35	.00	.01
10	.00	.00	.01	.00	.06	.00	.00	.05	.00	.01	.00	.03
11	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	1.01	.00
12	.00	.00	.00	.01	.19	.08	.00	.12	.00	.00	.08	.00
13	.00	.02	.00	.00	.09	.01	.00	.00	.56	.00	.52	.00
14	.00	.63	.03	.05	.14	.00	.00	.00	1.08	.00	.11	.00
15	.00	.00	.00	.00	.00	.48	.01	.63	.26	.00	.00	.00
16	.00	.02	.28	.00	.13	.00	.00	.22	2.53	.00	.00	.00
17	.00	.07	.62	.00	.73	.00	.07	.02	.01	.00	.00	.00
18	.00	.00	.00	.01	.00	.00	.00	.03	.00	.02	.21	.00
19	.00	.16	.17	.17	.00	.00	.00	.02	.00	.02	.29	.00
20	.00	.51	.00	.56	.00	1.55	.00	.05	.00	.00	.01	.16
21	.00	.00	.02	.00	.00	.97	.00	.07	.82	.00	.00	.00
22	.00	.00	.02	.00	.04	.01	.00	.06	.49	.00	.00	.00
23	.00	.00	.00	.00	.13	.00	.00	.00	.71	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.55	.00	.07	.18	.21	1.12
25	.00	1.02	.00	.00	.14	.00	.42	.00	.01	.00	.00	.02
26	.00	.01	.00	.00	.00	.01	.01	.36	.02	.35	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.09	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.28	.00	.00	.05	.00
29	.00	.00	.00	.00	---	1.87	.00	.12	.00	.10	.00	.00
30	.00	.00	.00	.27	---	.00	.00	.00	.00	.12	1.07	.00
31	.00	---	.00	.00	---	.97	---	.00	---	.00	.03	---
TOTAL	0.00	2.49	1.25	1.22	1.98	7.29	2.05	2.03	9.23	5.22	3.59	1.55



Gaging station at Little River at state road 1461 near Orange Factory, North Carolina.

0208732885 MARSH CREEK NEAR NEW HOPE, NC

LOCATION.--Lat 35°48'59", long 78°35'37", 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 sea level. Satellite and telephone telemetry at station.

REMARKS.-- Records fair. Maximum discharge for period of record from rating curve extension above 1,300 ft^3/s, on basis of indirect measurement of peak flow. Minimum discharge for period of record also occurred Aug. 5, 1999. Minimum discharge for current water year also occurred Sept. 22, 23.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	4.4	1.9	2.0	2.7	2.3	115	1.9	117	3.1	2.9	8.3
2	2.1	1.3	2.2	2.1	2.2	2.2	26	1.8	21	19	2.2	4.9
3	1.9	1.4	2.3	2.0	1.9	8.1	10	1.8	5.5	4.0	2.0	2.9
4	1.8	1.4	2.1	2.0	2.3	65	6.8	1.6	3.5	28	1.8	2.3
5	1.7	1.9	2.4	2.0	10	10	5.1	1.5	2.7	25	1.6	1.9
6	1.7	1.7	2.3	2.0	3.2	6.0	4.3	1.5	2.6	4.3	1.7	1.7
7	1.6	2.2	2.0	2.0	2.5	4.9	3.9	1.6	2.3	2.6	1.6	1.5
8	1.5	2.9	2.0	4.8	2.1	4.3	3.5	1.9	2.0	16	1.2	1.4
9	e1.4	2.3	2.1	3.1	2.0	4.1	3.2	2.1	1.8	6.6	1.3	3.9
10	e1.4	2.4	2.1	2.6	2.9	4.3	3.0	1.9	1.6	8.0	1.1	1.8
11	e1.4	2.3	2.1	2.3	1.9	3.4	2.8	1.9	1.8	3.0	19	1.4
12	e1.4	2.2	2.3	2.2	11	3.8	2.8	2.9	1.6	2.2	92	1.6
13	e1.3	2.3	2.3	2.0	9.1	4.8	2.8	2.4	5.3	2.3	57	1.3
14	e1.3	24	2.5	2.0	11	3.7	2.7	1.9	58	2.4	43	1.2
15	e1.3	4.6	2.2	2.1	5.1	18	2.6	17	18	2.4	5.8	1.2
16	e1.2	2.9	4.9	2.0	3.7	7.1	2.7	46	16	2.4	3.6	1.2
17	e1.2	3.2	45	2.0	67	4.9	2.6	9.9	17	2.3	2.6	1.2
18	e1.2	1.8	5.2	2.0	6.6	4.3	2.5	10	4.4	8.4	3.7	1.2
19	e1.3	12	6.7	3.3	4.4	3.4	2.5	5.9	2.9	5.1	9.3	1.1
20	e1.3	12	5.5	30	3.6	33	2.4	5.5	2.4	2.7	9.3	2.7
21	e1.2	4.3	3.3	5.1	3.0	140	2.4	8.9	4.4	2.2	4.9	1.4
22	e1.2	2.7	7.2	3.1	10	29	2.5	5.9	4.3	1.9	2.9	1.0
23	e1.3	2.0	2.3	2.7	5.6	7.8	2.4	4.3	17	1.9	2.5	2.3
24	e1.2	1.7	2.3	2.4	3.7	5.5	8.8	2.8	11	4.4	10	36
25	e1.2	48	2.1	2.1	5.4	4.5	37	2.2	3.5	2.6	3.4	11
26	e1.2	20	2.1	1.9	3.9	4.0	6.2	15	2.5	10	2.6	3.5
27	e1.1	4.8	2.1	1.9	2.9	3.5	3.6	5.5	9.8	178	1.9	2.2
28	e1.1	3.2	2.1	1.7	2.5	3.3	2.6	11	2.7	7.9	3.7	1.5
29	e1.1	2.5	2.2	1.7	---	128	2.2	12	2.0	13	2.9	1.4
30	e1.1	2.2	2.0	11	---	28	2.0	5.4	1.7	12	15	1.4
31	e1.1	---	2.0	4.0	---	41	---	3.5	---	4.3	18	---
MEAN	1.39	6.02	4.19	3.62	6.86	19.1	9.23	6.37	11.5	12.5	10.7	3.55
MAX	2.2	48	45	30	67	140	115	46	117	178	92	36
MIN	1.1	1.3	1.9	1.7	1.9	2.2	2.0	1.5	1.6	1.9	1.1	1.0
IN.	.23	.98	.71	.61	1.05	3.22	1.51	1.07	1.88	2.11	1.80	.58

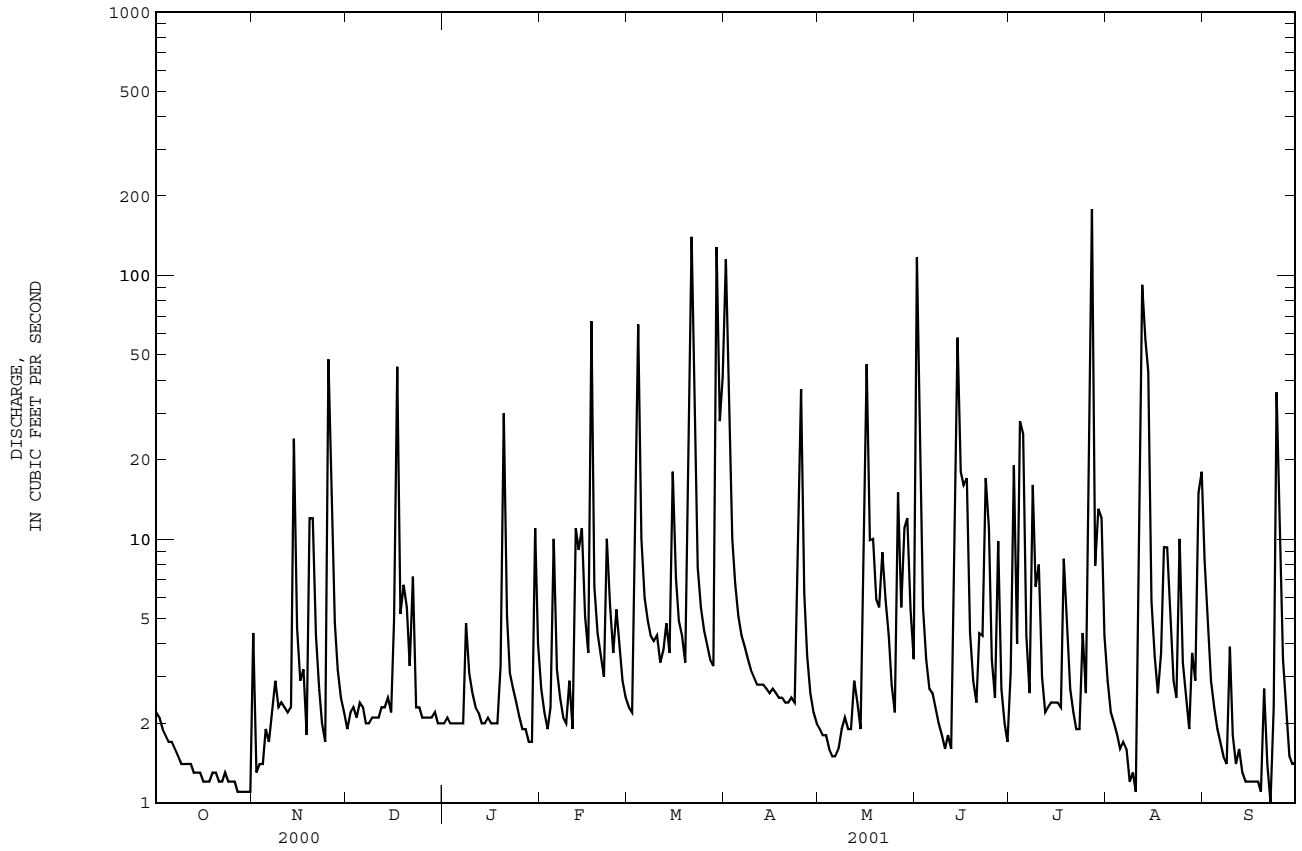
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2001, BY WATER YEAR (WY)

MEAN	7.05	7.60	6.68	12.1	11.2	14.3	9.54	8.40	8.45	8.98	9.06	12.8
MAX	23.3	15.7	10.3	30.3	22.0	31.9	19.2	25.9	20.3	25.0	38.0	67.4
(WY)	1996	1996	1990	1998	1998	1998	1989	1984	1989	1997	1986	1999
MIN	1.39	1.72	2.02	3.62	2.77	4.54	2.08	2.71	1.29	2.44	2.07	1.86
(WY)	2001	1992	1995	2001	1991	1986	1985	1999	1993	1987	1993	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1984 - 2001	
ANNUAL MEAN	9.01		7.93		9.70	
HIGHEST ANNUAL MEAN					14.9	1996
LOWEST ANNUAL MEAN					5.87	1988
HIGHEST DAILY MEAN	178	Sep 4	178	Jul 27	890	Sep 6 1996
LOWEST DAILY MEAN	.80	Jun 27	1.0	Sep 22	.00	Aug 3 1999
ANNUAL SEVEN-DAY MINIMUM	1.1	Oct 25	1.1	Oct 25	.05	Aug 1 1999
MAXIMUM PEAK FLOW			772	Jul 27	3900*	Sep 6 1996
MAXIMUM PEAK STAGE			8.56	Jul 27	13.33	Sep 6 1996
INSTANTANEOUS LOW FLOW			.82*	Aug 10	.00*	Aug 3 1999
ANNUAL RUNOFF (INCHES)	17.93		15.75		19.27	
10 PERCENT EXCEEDS	22		16		18	
50 PERCENT EXCEEDS	3.2		2.6		3.4	
90 PERCENT EXCEEDS	1.3		1.4		1.3	

e Estimated.
* See REMARKS.

0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued



0208732885 MARSH CREEK NEAR NEW HOPE, NC--Continued

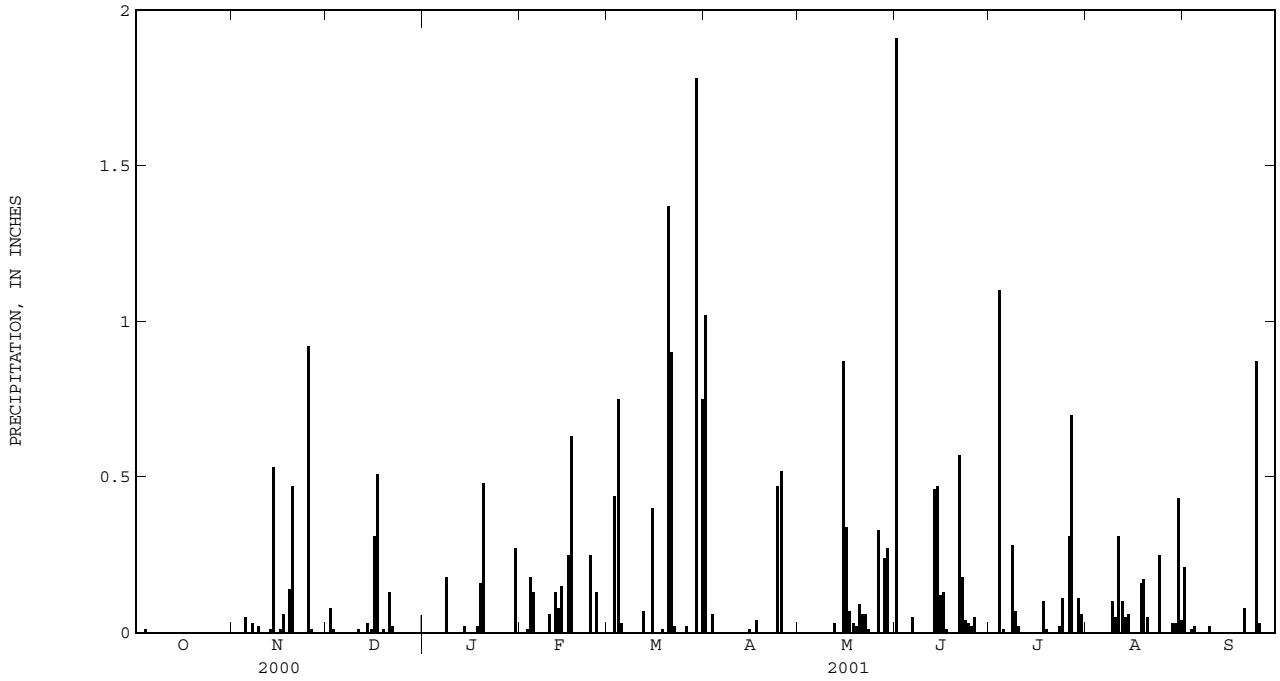
PRECIPITATION RECORDS

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.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	1.02	.00	1.91	.00	.00	.21
2	.00	.00	.08	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.01	.00	.01	.44	.06	.00	.00	.00	.00	.01
4	.01	.00	.00	.00	.18	.75	.00	.00	.00	1.10	.00	.02
5	.00	.05	.00	.00	.13	.03	.00	.00	.00	.01	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	.00
7	.00	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.18	.00	.00	.00	.00	.00	.28	.00	.00
9	.00	.02	.00	.00	.00	.00	.00	.00	.00	.07	.10	.02
10	.00	.00	.00	.00	.06	.00	.00	.00	.00	.02	.05	.00
11	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.31	.00
12	.00	.00	.00	.00	.13	.07	.00	.03	.00	.00	.10	.00
13	.00	.01	.00	.00	.08	.00	.00	.00	.46	.00	.05	.00
14	.00	.53	.03	.02	.15	.00	.00	.00	.47	.00	.06	.00
15	.00	.00	.01	.00	.00	.40	.01	.87	.12	.00	.00	.00
16	.00	.01	.31	.00	.25	.00	.00	.34	.13	.00	.00	.00
17	.00	.06	.51	.00	.63	.00	.04	.07	.01	.00	.00	.00
18	.00	.00	.00	.02	.00	.01	.00	.03	.00	.10	.16	.00
19	.00	.14	.01	.16	.00	.00	.00	.02	.00	.01	.17	.00
20	.00	.47	.00	.48	.00	1.37	.00	.09	.00	.00	.05	.08
21	.00	.00	.13	.00	.00	.90	.00	.06	.57	.00	.00	.00
22	.00	.00	.02	.00	.00	.02	.00	.06	.18	.00	.00	.00
23	.00	.00	.00	.00	.25	.00	.00	.01	.04	.02	.00	.00
24	.00	.00	.00	.00	.00	.00	.47	.00	.03	.11	.25	.87
25	.00	.92	.00	.00	.13	.00	.52	.00	.02	.00	.00	.03
26	.00	.01	.00	.00	.00	.02	.00	.33	.05	.31	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.70	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.24	.00	.00	.03	.00
29	.00	.00	.00	.00	---	1.78	.00	.27	.00	.11	.03	.00
30	.00	.00	.00	.27	---	.00	.00	.00	.00	.06	.43	.00
31	.00	---	.00	.00	---	.75	---	.00	---	.00	.04	---
TOTAL	0.01	2.25	1.12	1.13	2.00	6.54	2.12	2.42	4.04	2.90	1.83	1.24



Gaging station at Conetoe Creek near Bethel, North Carolina.

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 District Office, Raleigh, NC.

GAGE.--Water-stage recorder. Elevation of gage is 315 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor. Minimum discharge for period of record, due to diversion by City of Raleigh.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.74	.96	.50	.49	.60	.74	18	.31	40	e.02	.46	1.7
2	.54	.91	.71	.49	.74	.73	1.9	.23	.46	e.02	.38	.44
3	.53	1.1	.49	.49	.74	4.2	1.4	.25	.20	.03	.46	.44
4	.58	.72	.53	.49	1.4	14	1.2	.22	.22	12	.34	.52
5	.66	.18	.50	.49	2.5	1.3	.76	.22	.32	1.3	e.02	.39
6	.54	.18	.51	.49	.75	.88	.75	.22	.50	.02	.04	.22
7	.60	.25	.49	.49	.53	.88	.82	.24	.35	.02	.07	e.02
8	.63	.42	.61	1.2	.45	.74	.85	.32	.34	2.2	.10	e.02
9	.56	.55	.49	.64	.45	.75	.96	.45	.24	6.7	.16	.04
10	.69	.82	.49	.49	.91	.75	.79	.94	.20	2.1	.15	2.5
11	.78	.66	.49	.49	.49	.91	.74	.77	.19	.17	6.1	3.9
12	.79	.73	.52	.49	3.4	1.1	.97	1.4	.19	.19	5.7	1.4
13	.82	.97	.60	.49	1.3	.86	.96	.92	3.1	.22	6.9	1.3
14	.92	5.4	.69	.77	2.2	.75	.96	.56	9.7	.22	2.9	1.3
15	.96	.78	.49	.49	.71	4.9	.96	2.2	4.1	.22	.70	1.4
16	1.0	.81	1.1	.51	.70	.76	.98	4.3	93	.30	.51	1.5
17	.96	1.1	9.8	.50	12	.74	1.2	.36	3.3	.36	.41	1.6
18	.66	.74	.82	.49	.74	.64	.78	.48	.46	.33	1.4	1.3
19	.34	3.5	1.8	1.2	.68	.58	.94	.35	.23	.33	4.6	1.3
20	.38	2.1	1.1	5.3	.75	20	.98	1.2	.20	.24	.77	2.0
21	.42	.79	.96	.59	.77	24	1.2	1.3	3.1	.22	.34	1.4
22	.37	.82	1.1	.49	2.7	2.5	1.1	.65	5.0	.22	.36	1.4
23	.26	.78	.78	.49	.84	1.0	1.0	.44	9.5	.41	.31	1.6
24	.33	.74	.74	.49	.70	.86	4.8	.31	1.3	2.2	2.3	13
25	.62	12	.74	.49	1.6	.74	5.9	.24	.57	.13	.49	2.1
26	.56	.89	.74	.49	.75	.73	.37	2.9	1.1	2.2	.32	1.6
27	.52	.49	.71	.49	.74	.63	.34	.31	.34	30	.34	1.3
28	.62	.49	.49	.49	.63	.51	.32	2.3	.32	.74	.69	1.4
29	.66	.49	.49	.49	---	27	.34	1.2	e.19	1.0	.29	1.1
30	.92	.50	.49	2.4	---	2.0	.40	.32	e.02	1.4	4.8	.82
31	1.0	---	.49	.56	---	14	---	.27	---	.51	2.0	---
TOTAL	19.96	40.87	30.46	23.96	40.77	130.18	52.67	26.18	178.74	66.02	44.41	49.01
MEAN	.64	1.36	.98	.77	1.46	4.20	1.76	.84	5.96	2.13	1.43	1.63
MAX	1.0	12	9.8	5.3	12	27	18	4.3	93	30	6.9	13
MIN	.26	.18	.49	.49	.45	.51	.32	.22	.02	.02	.02	.02
CFSM	.55	1.16	.84	.66	1.24	3.59	1.50	.72	5.09	1.82	1.22	1.40
IN.	.63	1.30	.97	.76	1.30	4.14	1.67	.83	5.68	2.10	1.41	1.56

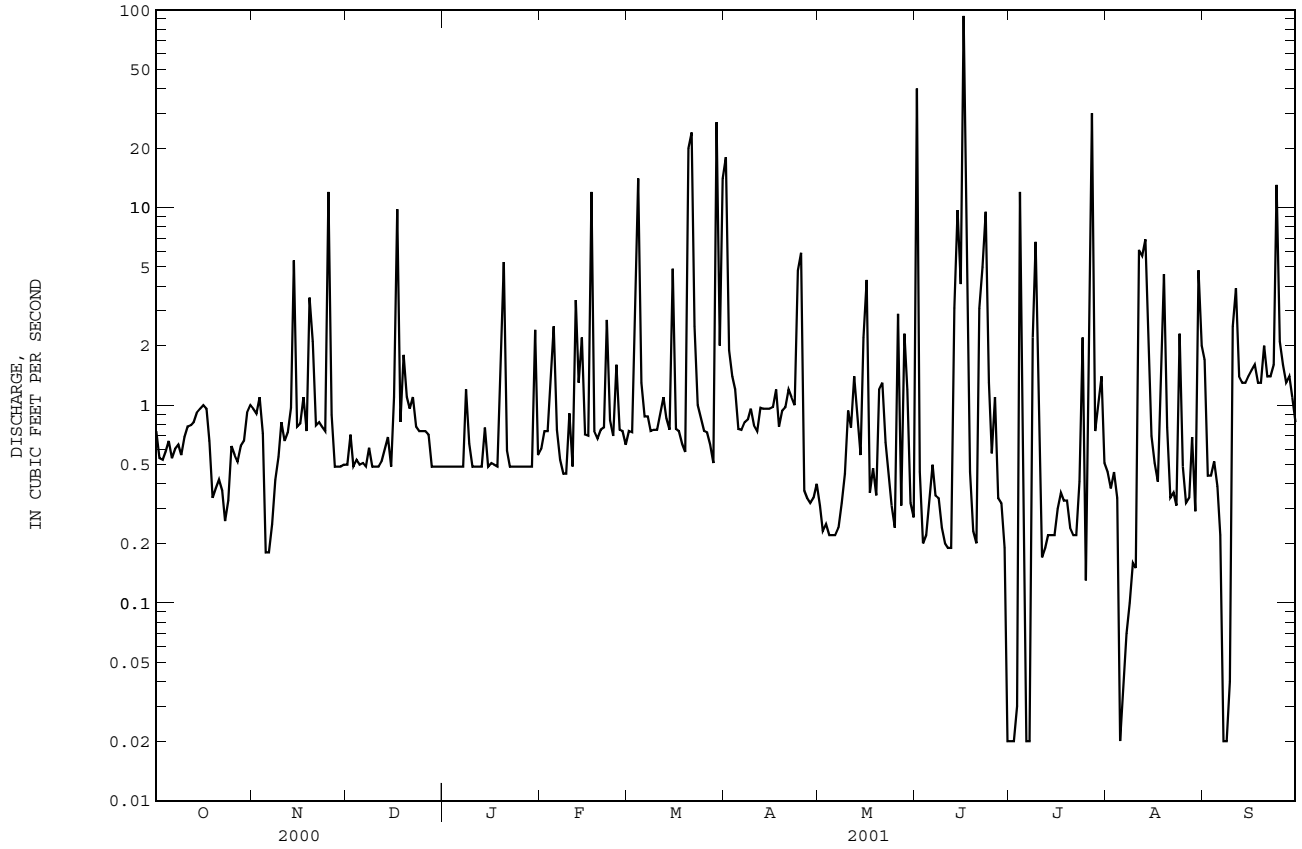
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	1.78	1.48	1.47	3.16	2.40	3.28	1.96	1.15	2.26	2.76	2.19	5.31
MAX	2.69	2.00	1.85	6.08	5.45	6.58	2.65	1.71	5.96	5.22	3.35	17.8
(WY)	2000	1998	1998	1998	1998	1998	1997	1997	2001	1997	1999	1999
MIN	.64	1.13	.98	.77	1.17	1.52	1.39	.49	.71	1.16	.71	.91
(WY)	2001	1999	2001	2001	1999	2000	2000	2000	1999	1999	1997	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	670.90		703.23			
ANNUAL MEAN	1.83		1.93		2.43	
HIGHEST ANNUAL MEAN					3.19	1999
LOWEST ANNUAL MEAN					1.89	1997
HIGHEST DAILY MEAN	39	Jul 15	93	Jun 16	119	Jul 24 1997
LOWEST DAILY MEAN	.01	Apr 26	.02	Jun 30	.00	Oct 6 1998
ANNUAL SEVEN-DAY MINIMUM	.01	Apr 30	.13	Aug 4	.01	Apr 30 2000
MAXIMUM PEAK FLOW			1890	Jun 16	2590	Jul 24 1997
MAXIMUM PEAK STAGE			8.48	Jun 16	9.23	Jul 24 1997
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Jun 8 1997
ANNUAL RUNOFF (CFSM)	1.57		1.65		2.08	
ANNUAL RUNOFF (INCHES)	21.33		22.36		28.23	
10 PERCENT EXCEEDS	3.7		3.1		3.9	
50 PERCENT EXCEEDS	.66		.71		.65	
90 PERCENT EXCEEDS	.24		.23		.32	

e Estimated.

0208735012 ROCKY BRANCH BELOW PULLEN DRIVE AT RALEIGH, NC--Continued



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC

LOCATION.--Lat 35°45'30", long 78°34'58", 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 sea level. 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 computation of peak flow through culvert; maximum gage height, 17.03 ft, from high-water mark in gage shelter. Minimum discharge for period of record also occurred on Aug. 5, 6, 7, 8, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	e7.7	11	8.6	13	12	299	8.9	87	8.3	13	28
2	13	e7.6	10	8.4	11	12	337	8.6	414	7.4	10	18
3	12	e8.3	12	8.6	10	28	69	8.2	52	6.7	9.2	11
4	12	e8.2	9.7	8.5	9.4	207	41	7.9	22	33	8.0	9.4
5	11	e9.0	9.7	8.8	34	90	30	7.4	14	552	7.2	8.5
6	11	e8.7	9.6	8.8	17	56	25	6.9	12	55	6.5	7.4
7	9.8	e8.8	8.6	8.7	13	26	22	6.3	9.7	24	6.3	6.3
8	9.1	e9.7	8.7	14	12	19	20	6.2	8.1	40	5.9	5.4
9	8.9	e10	9.2	13	10	16	19	6.2	7.3	30	6.5	5.0
10	8.5	e13	8.6	11	12	12	17	7.6	6.8	164	5.2	5.1
11	8.5	e14	9.4	10	11	11	15	7.5	6.2	54	46	18
12	8.5	e14	9.5	9.4	25	11	14	6.5	6.1	23	182	6.1
13	8.0	e14	8.6	9.2	32	14	14	15	44	15	65	4.6
14	7.8	e43	8.6	8.9	29	12	13	10	111	12	65	4.3
15	7.8	25	8.7	11	21	38	12	6.8	193	9.4	26	e4.0
16	7.8	14	13	10	16	17	12	63	70	8.4	15	e3.8
17	7.8	14	115	8.7	149	11	12	27	973	7.5	11	e4.0
18	8.3	11	32	8.7	52	9.1	12	17	118	6.7	11	e4.0
19	8.8	25	23	10	24	8.4	10	12	30	6.6	29	e3.8
20	8.5	44	25	77	18	29	9.3	10	18	6.3	30	e4.9
21	8.7	22	16	31	15	418	9.0	24	25	5.7	15	e4.7
22	8.7	14	15	19	31	240	8.9	24	22	5.2	9.7	e4.0
23	8.4	12	13	14	25	64	9.2	20	70	5.1	7.9	e5.0
24	8.3	9.8	11	12	17	32	15	11	54	10	14	e67
25	8.5	70	10	11	19	20	107	8.3	22	11	9.5	41
26	8.5	80	9.9	11	19	21	40	31	18	20	7.6	13
27	8.0	44	9.9	9.3	15	18	21	16	14	309	6.6	7.5
28	7.9	22	10	9.1	13	16	15	21	11	97	6.9	5.7
29	7.4	13	9.3	8.7	---	227	11	25	9.8	29	9.8	4.7
30	7.3	11	9.4	27	---	332	9.9	16	8.9	35	18	4.1
31	7.5	---	9.2	17	---	87	---	10	---	18	51	---
TOTAL	280.3	606.8	472.6	430.4	672.4	2113.5	1248.3	455.3	2456.9	1614.3	713.8	318.3
MEAN	9.04	20.2	15.2	13.9	24.0	68.2	41.6	14.7	81.9	52.1	23.0	10.6
MAX	14	80	115	77	149	418	337	63	973	552	182	67
MIN	7.3	7.6	8.6	8.4	9.4	8.4	8.9	6.2	6.1	5.1	5.2	3.8

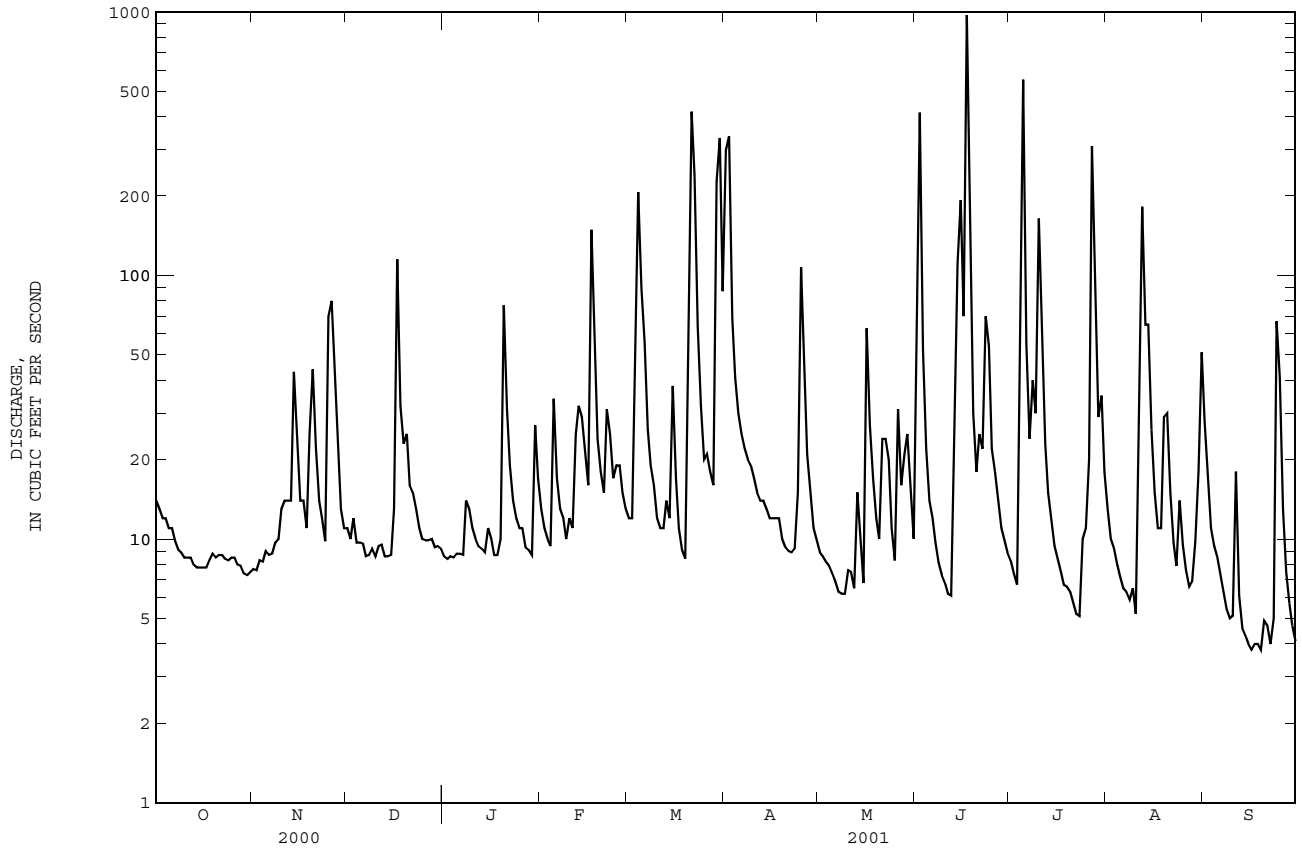
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

MEAN	26.5	21.3	26.8	55.4	45.4	60.1	37.7	18.8	34.2	34.4	23.4	95.9
MAX	45.5	26.9	34.1	106	98.0	123	65.2	27.7	81.9	52.1	40.1	263
(WY)	1997	1997	1999	1998	1998	1998	1997	1998	2001	2001	1998	1999
MIN	9.04	15.5	15.2	13.9	21.9	30.8	20.9	12.0	12.9	11.3	8.00	10.6
(WY)	2001	2000	2001	2001	1999	2000	1999	1999	1999	1999	1997	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	10531.1		11382.9			
ANNUAL MEAN	28.8		31.2		38.3	
HIGHEST ANNUAL MEAN					47.7	1998
LOWEST ANNUAL MEAN					31.2	2001
HIGHEST DAILY MEAN	402	Sep 26	973	Jun 17	3600	Sep 6 1996
LOWEST DAILY MEAN	5.9	Aug 24	3.8	Sep 16	2.1	Aug 5 1999
ANNUAL SEVEN-DAY MINIMUM	7.6	Oct 27	4.1	Sep 13	2.3	Aug 2 1999
MAXIMUM PEAK FLOW			1560	Jun 17	6760*	Sep 6 1996
MAXIMUM PEAK STAGE			10.58	Jun 17	17.03*	Sep 6 1996
INSTANTANEOUS LOW FLOW			NOT DETERMINED		2.0*	Aug 4 1999
10 PERCENT EXCEEDS	62		54		66	
50 PERCENT EXCEEDS	16		11		16	
90 PERCENT EXCEEDS	8.3		6.7		7.3	

e Estimated.
* See REMARKS.

02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC--Continued



02087359 WALNUT CREEK AT SUNNYBROOK DRIVE AT RALEIGH, NC--Continued

PRECIPITATION RECORDS

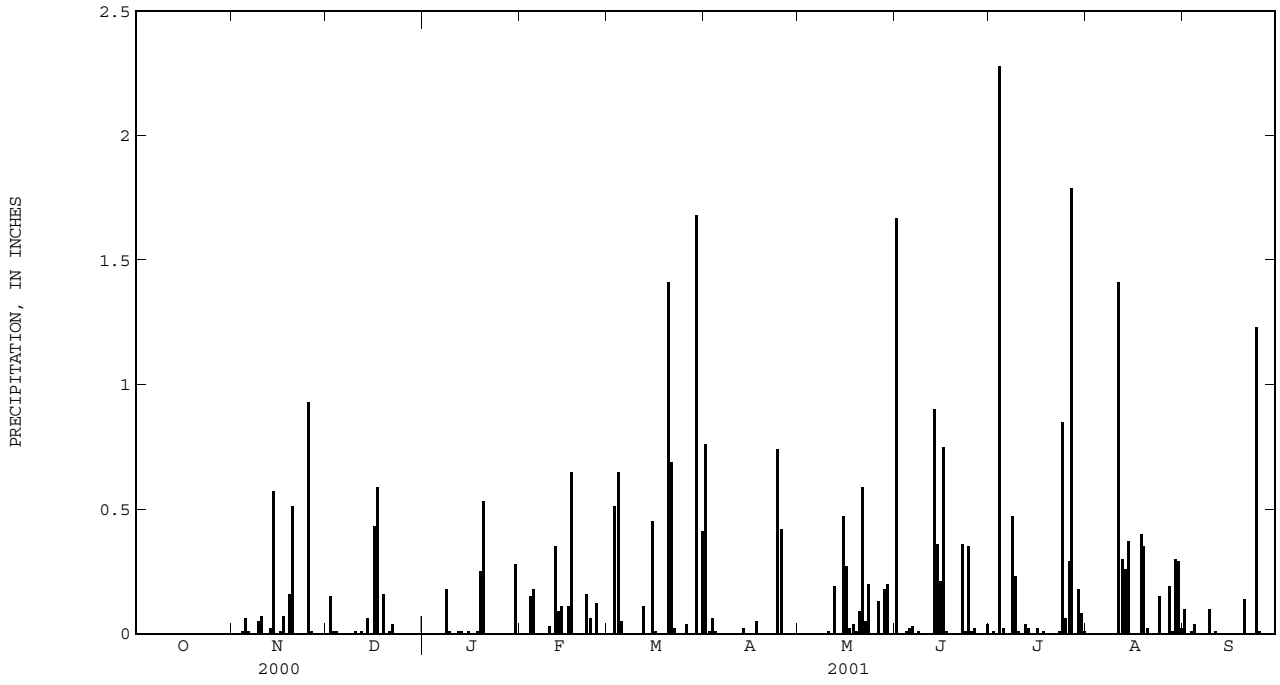
PERIOD OF RECORD.--July 1996 to current year. Records from July 1996 to September 1998 are unpublished and available in the USGS District Office, Raleigh, NC.

INSTRUMENTATION.--Tipping bucket raingage and data collection platform.

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 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.76	.00	1.67	.00	.00	.10
2	.00	.00	.15	.00	.00	.00	.01	.00	.00	.01	.00	.00
3	.00	.00	.01	.00	.00	.51	.06	.00	.00	.00	.00	.01
4	.00	.01	.01	.00	.15	.65	.01	.00	.01	2.28	.00	.04
5	.00	.06	.00	.00	.18	.05	.00	.00	.02	.02	.00	.00
6	.00	.01	.00	.00	.00	.00	.00	.00	.03	.00	.00	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.18	.00	.00	.00	.00	.01	.47	.00	.00
9	.00	.05	.00	.01	.00	.00	.00	.00	.00	.23	.00	.10
10	.00	.07	.01	.00	.03	.00	.00	.01	.00	.01	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.41	.01
12	.00	.00	.01	.01	.35	.11	.00	.19	.00	.04	.30	.00
13	.00	.02	.00	.01	.09	.00	.02	.00	.90	.02	.26	.00
14	.00	.57	.06	.00	.11	.00	.00	.00	.36	.00	.37	.00
15	.00	.00	.00	.01	.00	.45	.00	.47	.21	.00	.00	.00
16	.00	.01	.43	.00	.11	.01	.00	.27	.75	.02	.00	.00
17	.00	.07	.59	.00	.65	.00	.05	.02	.01	.00	.00	.00
18	.00	.00	.00	.01	.00	.00	.00	.04	.00	.01	.40	.00
19	.00	.16	.16	.25	.00	.00	.00	.01	.00	.00	.35	.00
20	.00	.51	.00	.53	.00	1.41	.00	.09	.00	.00	.02	.14
21	.00	.00	.01	.00	.00	.69	.00	.59	.00	.00	.00	.00
22	.00	.00	.04	.00	.16	.02	.00	.05	.36	.00	.00	.00
23	.00	.00	.00	.00	.06	.00	.00	.20	.01	.01	.00	.00
24	.00	.00	.00	.00	.00	.00	.74	.00	.35	.85	.15	1.23
25	.00	.93	.00	.00	.12	.00	.42	.00	.01	.06	.00	.01
26	.00	.01	.00	.00	.00	.04	.00	.13	.02	.29	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.79	.19	.00
28	.00	.00	.00	.00	.00	.00	.00	.18	.00	.00	.01	.00
29	.00	.00	.00	.00	---	1.68	.00	.20	.00	.18	.30	.00
30	.00	.00	.00	.28	---	.00	.00	.00	.04	.08	.29	.00
31	.00	---	.00	.00	---	.41	---	.00	---	.01	.02	---
TOTAL	0.00	2.48	1.48	1.29	2.01	6.03	2.07	2.45	4.76	6.38	4.07	1.64



Gaging station at Little River near Star, North Carolina.

02087500 NEUSE RIVER NEAR CLAYTON, NC

LOCATION.--Lat 35°38'50", long 78°24'22", 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 sea level. 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 fair. Flow regulated by Falls Lake (station 02087182), since Dec. 7, 1983. The City of Raleigh diverted an average of 85.7 ft^3/s 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	491	303	376	332	385	400	3090	437	368	361	455	633
2	465	313	363	341	357	389	4830	404	2710	319	393	508
3	436	307	373	334	343	397	2390	397	1290	370	386	398
4	415	305	368	332	337	1390	1740	390	1070	402	350	345
5	406	313	360	335	e445	1420	1810	373	995	1730	478	320
6	393	330	357	338	e430	1130	2590	384	550	837	476	291
7	376	329	352	338	394	1020	3340	371	398	395	397	272
8	359	337	330	352	363	922	3810	368	364	346	420	282
9	354	342	333	392	352	863	3970	366	e350	485	400	309
10	353	348	363	355	353	819	3990	378	e360	547	394	322
11	352	342	345	344	356	796	3950	390	e380	534	431	611
12	347	331	319	342	355	524	4010	360	391	396	1340	399
13	340	333	359	339	503	429	4060	386	404	339	977	292
14	327	389	333	335	483	384	4040	383	633	296	1800	249
15	324	556	313	339	515	446	4000	362	1590	299	2120	243
16	325	383	296	340	447	604	3970	692	1010	284	2090	338
17	326	353	891	330	1070	471	3940	593	2150	269	1290	372
18	324	353	809	328	1250	423	3920	491	e1700	256	588	351
19	328	356	535	337	735	397	3480	481	e600	e280	497	314
20	322	534	513	578	583	396	1930	451	438	e290	522	328
21	315	476	465	689	494	e3550	880	517	354	265	451	348
22	315	386	431	478	494	3890	1330	506	408	309	410	325
23	318	361	404	420	568	1910	2560	418	477	321	321	317
24	313	336	376	387	487	1450	2490	365	701	292	301	410
25	316	379	364	375	455	1860	2780	342	505	392	348	812
26	313	1160	334	356	487	2800	2640	345	457	382	287	390
27	314	682	370	354	445	2980	2000	382	429	1950	294	271
28	310	504	361	346	416	3260	858	371	410	1990	283	283
29	309	433	350	340	---	2570	511	444	455	713	325	377
30	308	398	353	368	---	4340	467	438	329	695	312	395
31	305	---	339	459	---	2080	---	370	---	577	579	---
TOTAL	10799	12272	12435	11633	13902	44310	85376	12955	22276	16921	19715	11105
MEAN	348	409	401	375	496	1429	2846	418	743	546	636	370
MAX	491	1160	891	689	1250	4340	4830	692	2710	1990	2120	812
MIN	305	303	296	328	337	384	467	342	329	256	283	243

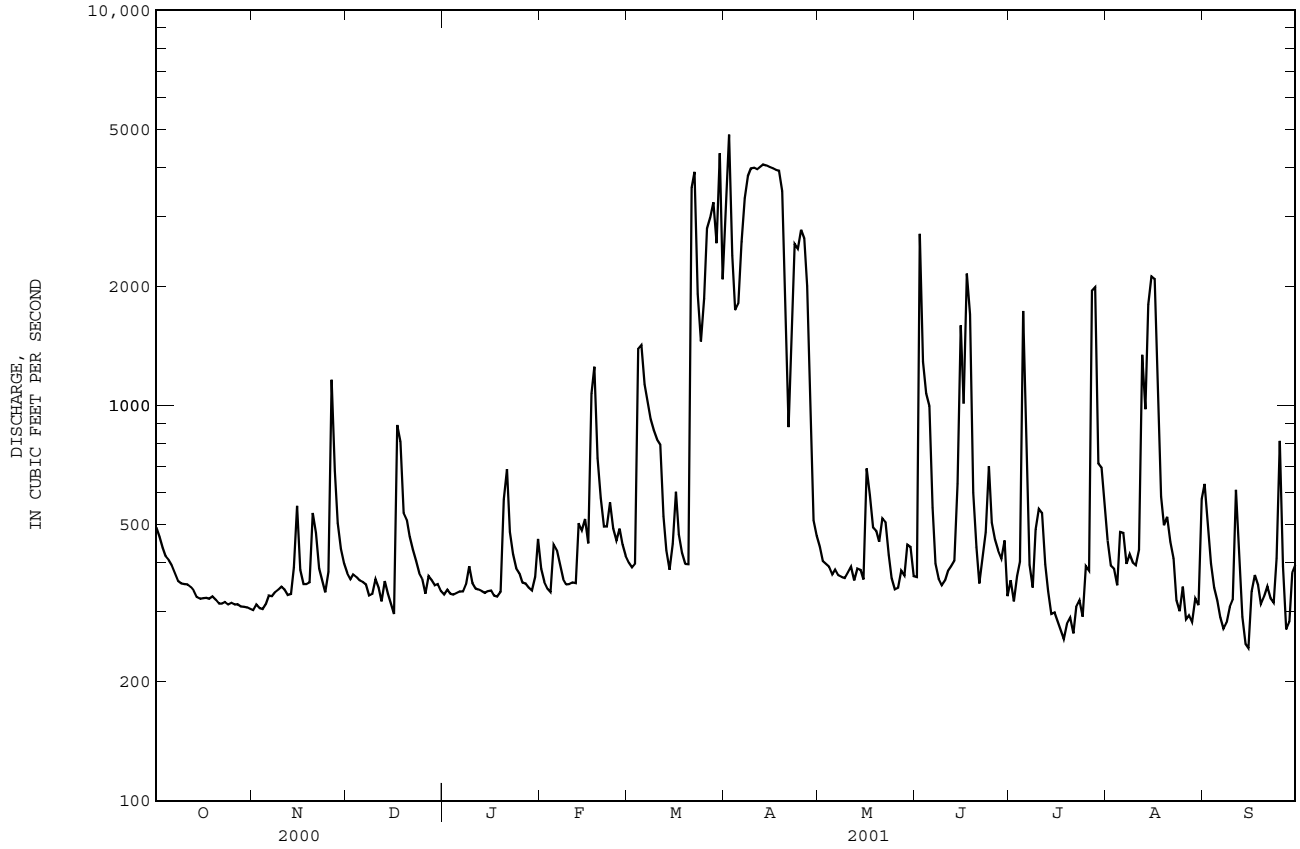
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,* BY WATER YEAR (WY)

MEAN	730	655	841	1446	1901	2382	1751	911	612	607	607	917
MAX	3822	2201	2013	2821	4961	5688	3426	2864	1211	1841	1539	6620
(WY)	2000	1996	1986	1984	1998	1998	1998	1989	1995	1995	1989	1996
MIN	212	215	237	375	496	483	290	309	267	234	204	136
(WY)	1984	1992	1995	2001	2001	1988	1986	1995	1999	1983	1983	1985

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001*	
ANNUAL TOTAL	380268		273699			
ANNUAL MEAN	1039		750		1109	
HIGHEST ANNUAL MEAN					1760	1996
LOWEST ANNUAL MEAN					458	1988
HIGHEST DAILY MEAN	4310	Feb 13	4830	Apr 2	19700	Sep 17 1999
LOWEST DAILY MEAN	296	Dec 16	243	Sep 15	105	Sep 16 1985
ANNUAL SEVEN-DAY MINIMUM	307	Oct 29	278	Jul 15	117	Sep 12 1985
MAXIMUM PEAK FLOW			5480	Apr 2	20500	Sep 17 1999
MAXIMUM PEAK STAGE			9.13	Apr 2	20.67	Sep 17 1999
INSTANTANEOUS LOW FLOW			184	Sep 15	78	Sep 18 1985
10 PERCENT EXCEEDS	2890		1940		3230	
50 PERCENT EXCEEDS	547		392		463	
90 PERCENT EXCEEDS	327		313		256	

e Estimated.
* Regulated period only (1983-2001). See REMARKS.

02087500 NEUSE RIVER NEAR CLAYTON, NC--Continued



02087570 NEUSE RIVER AT SMITHFIELD, NC

LOCATION.--Lat 35°30'46", long 78°21'00", 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 sea level. 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.

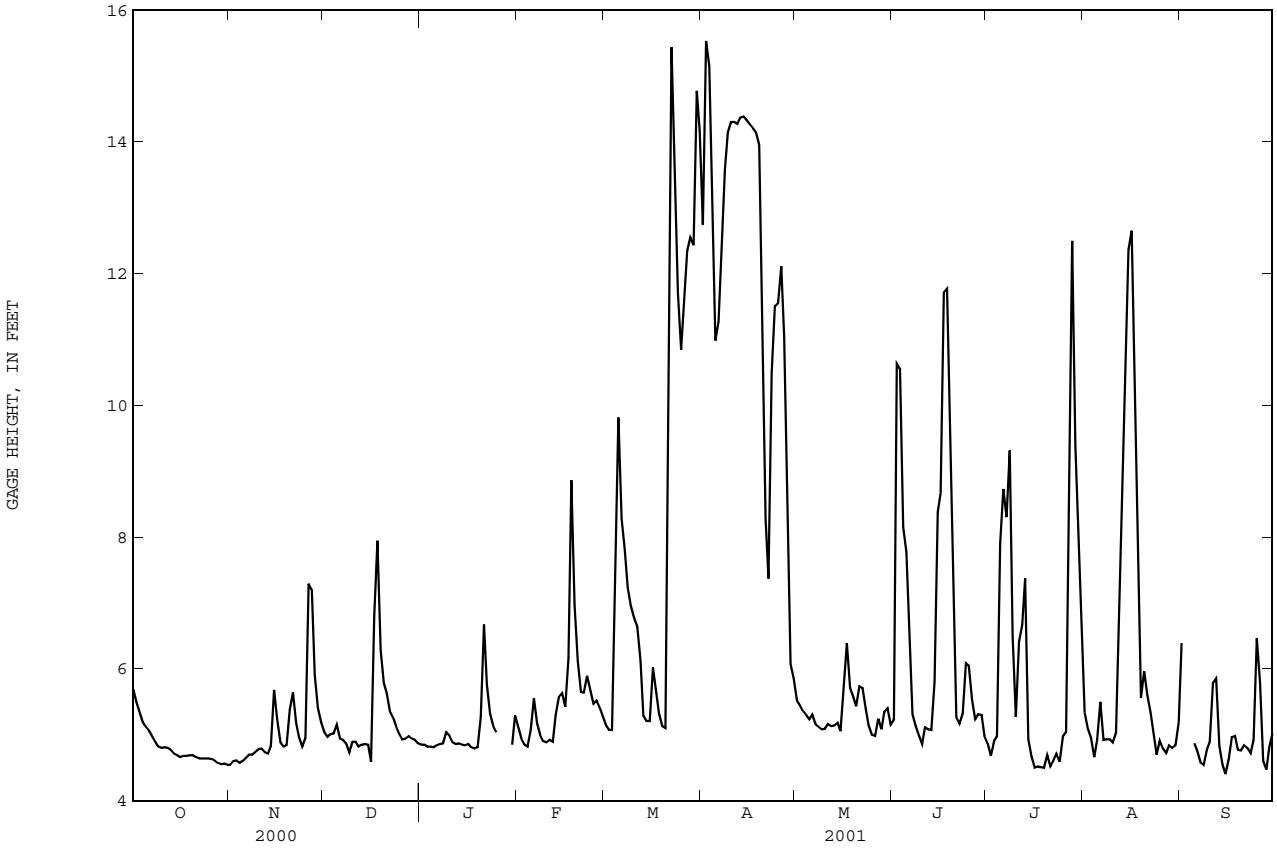
EXTREMES FOR PERIOD OF RECORD.--Maximum, 26.72 ft, Sept. 18, 1999; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum, 16.37 ft, Apr. 2, 3; minimum, 4.22 ft, Sept. 15, 16.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.69	4.54	5.04	4.85	5.11	5.15	12.74	5.52	5.22	4.87	5.34	6.39
2	5.49	4.60	4.97	4.85	4.94	5.07	15.53	5.45	10.63	4.68	5.09	---
3	5.34	4.61	5.01	4.82	4.85	5.07	15.15	5.36	10.55	4.90	4.95	---
4	5.20	4.57	5.02	4.82	4.82	6.88	12.59	5.30	8.15	4.97	4.66	---
5	5.12	4.60	5.15	4.81	5.07	9.81	10.98	5.23	7.77	7.90	4.92	4.87
6	5.06	4.65	4.94	4.84	5.55	8.28	11.27	5.30	6.66	8.73	5.50	4.75
7	4.98	4.70	4.92	4.86	5.17	7.80	12.52	5.16	5.31	8.30	4.92	4.58
8	4.89	4.70	4.87	4.87	4.99	7.24	13.59	5.12	5.13	9.31	4.93	4.54
9	4.82	4.74	4.73	5.04	4.90	6.95	14.14	5.08	4.99	6.49	4.93	4.77
10	4.80	4.78	4.89	4.99	4.88	6.77	14.30	5.09	4.86	5.27	4.88	4.89
11	4.81	4.79	4.89	4.88	4.92	6.64	14.30	5.16	5.11	6.41	5.03	5.78
12	4.80	4.73	4.82	4.86	4.89	6.13	14.27	5.13	5.08	6.67	6.86	5.85
13	4.77	4.71	4.85	4.87	5.30	5.29	14.36	5.14	5.07	7.37	8.34	4.83
14	4.71	4.83	4.86	4.85	5.57	5.21	14.38	5.18	5.80	4.93	10.11	4.54
15	4.69	5.68	4.85	4.84	5.63	5.21	14.33	5.05	8.38	4.67	12.36	4.40
16	4.66	5.22	4.59	4.86	5.42	6.02	14.26	5.72	8.67	4.50	12.65	4.62
17	4.68	4.88	6.80	4.81	6.16	5.67	14.20	6.39	11.71	4.52	10.45	4.96
18	4.68	4.82	7.94	4.79	8.86	5.32	14.14	5.71	11.77	4.51	7.01	4.98
19	4.69	4.84	6.29	4.81	6.97	5.13	13.95	5.57	9.17	4.50	5.56	4.77
20	4.69	5.38	5.78	5.27	6.12	5.10	11.59	5.43	7.14	4.69	5.96	4.76
21	4.66	5.64	5.63	6.67	5.65	10.94	8.27	5.73	5.27	4.52	5.60	4.84
22	4.64	5.18	5.36	5.76	5.64	15.43	7.37	5.71	5.17	4.60	5.34	4.80
23	4.64	4.96	5.26	5.32	5.89	13.94	10.49	5.39	5.32	4.71	5.04	4.72
24	4.64	4.82	5.12	5.13	5.68	11.70	11.50	5.14	6.08	4.59	4.70	4.92
25	4.64	4.95	5.02	5.04	5.47	10.84	11.55	5.00	6.05	4.97	4.91	6.46
26	4.63	7.29	4.93	---	5.52	11.54	12.11	4.98	5.54	5.04	4.79	5.80
27	4.61	7.20	4.94	---	5.42	12.34	11.04	5.24	5.23	7.29	4.72	4.60
28	4.57	5.91	4.98	---	5.28	12.55	8.34	5.08	5.31	12.49	4.84	4.47
29	4.55	5.40	4.94	---	---	12.43	6.07	5.35	5.30	9.39	4.80	4.81
30	4.56	5.19	4.92	4.85	---	14.77	5.85	5.40	4.98	7.95	4.84	5.02
31	4.54	---	4.87	5.29	---	14.17	---	5.15	---	6.73	5.19	---
TOTAL	149.25	152.91	161.18	---	154.67	265.39	365.18	165.26	201.42	190.47	189.22	---
MEAN	4.81	5.10	5.20	---	5.52	8.56	12.17	5.33	6.71	6.14	6.10	---
MAX	5.69	7.29	7.94	---	8.86	15.43	15.53	6.39	11.77	12.49	12.65	---
MIN	4.54	4.54	4.59	---	4.82	5.07	5.85	4.98	4.86	4.50	4.66	---

02087570 NEUSE RIVER AT SMITHFIELD, NC--Continued



0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC

LOCATION.--Lat 35°41'33", long 78°41'34", 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 sea level. Satellite telemetry at station.

REMARKS.--Records fair except during the period June 27 to Sept. 30, which are poor. Some regulation by Lake Wheeler (station 02087588). Maximum gage height for period of record from floodmarks. Minimum discharge for period of record, no flow, also occurred June 28, 29, 1993. Minimum discharge for current water year also occurred Sept. 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	1.5	6.5	3.9	11	16	312	4.8	46	9.7	19	30
2	10	1.3	5.7	4.1	9.7	12	501	3.3	521	3.6	15	23
3	9.2	.99	6.3	3.3	7.0	13	119	2.0	97	1.8	12	17
4	8.4	1.0	5.1	3.9	6.6	167	63	1.5	34	40	11	14
5	7.6	1.9	4.7	4.1	15	135	42	1.2	19	1080	8.4	12
6	7.4	1.9	3.4	5.3	18	67	32	.57	12	197	5.5	9.7
7	6.6	2.0	3.8	6.0	14	36	26	.25	9.1	55	4.4	7.2
8	4.9	2.3	3.0	8.9	11	28	23	.21	3.6	39	3.0	4.6
9	4.1	3.0	2.8	12	11	24	20	.21	3.1	63	2.2	2.7
10	3.5	5.0	3.4	11	11	19	17	.23	3.2	1470	3.0	1.7
11	2.5	1.7	4.1	13	8.7	17	15	.27	1.5	330	66	1.9
12	2.1	1.4	7.3	11	12	13	15	.42	1.0	95	434	1.7
13	2.2	1.4	3.9	12	24	18	13	.22	12	47	129	1.3
14	2.5	5.5	5.7	11	26	13	12	.12	116	31	87	.91
15	2.7	8.8	5.7	11	26	19	12	.08	565	22	40	.51
16	2.5	5.4	7.2	11	23	36	9.0	8.3	150	17	22	.22
17	2.4	5.5	47	9.5	78	27	5.9	15	659	15	16	.13
18	3.0	3.4	42	9.0	79	16	5.6	13	123	12	13	.09
19	3.0	5.6	29	10	42	11	2.9	11	45	10	16	.07
20	2.9	12	23	33	28	15	3.1	9.9	31	8.4	46	.07
21	3.4	11	16	45	22	758	3.9	15	22	6.1	32	.08
22	3.7	6.6	15	28	27	446	3.3	17	22	4.3	20	.13
23	3.4	3.9	10	19	34	114	3.2	14	58	2.3	15	.16
24	3.5	2.4	8.7	14	30	56	5.9	8.3	44	4.8	12	1.6
25	3.8	16	7.1	12	29	34	38	3.9	49	8.7	11	15
26	3.9	99	6.1	9.4	31	26	44	7.3	35	10	9.3	14
27	4.0	53	7.9	11	24	20	25	9.3	22	185	6.0	10
28	3.9	26	9.3	8.7	20	17	16	6.4	17	142	4.5	7.0
29	3.2	15	7.6	7.4	---	210	10	13	13	52	5.0	3.3
30	2.8	10	8.0	13	---	627	6.9	13	11	36	4.9	1.6
31	1.9	---	5.9	14	---	139	---	6.7	---	28	30	---
TOTAL	137.0	314.49	321.2	374.5	678.0	3149	1404.7	186.48	2744.5	4025.7	1102.2	181.67
MEAN	4.42	10.5	10.4	12.1	24.2	102	46.8	6.02	91.5	130	35.6	6.06
MAX	12	99	47	45	79	758	501	17	659	1470	434	30
MIN	1.9	.99	2.8	3.3	6.6	11	2.9	.08	1.0	1.8	2.2	.07

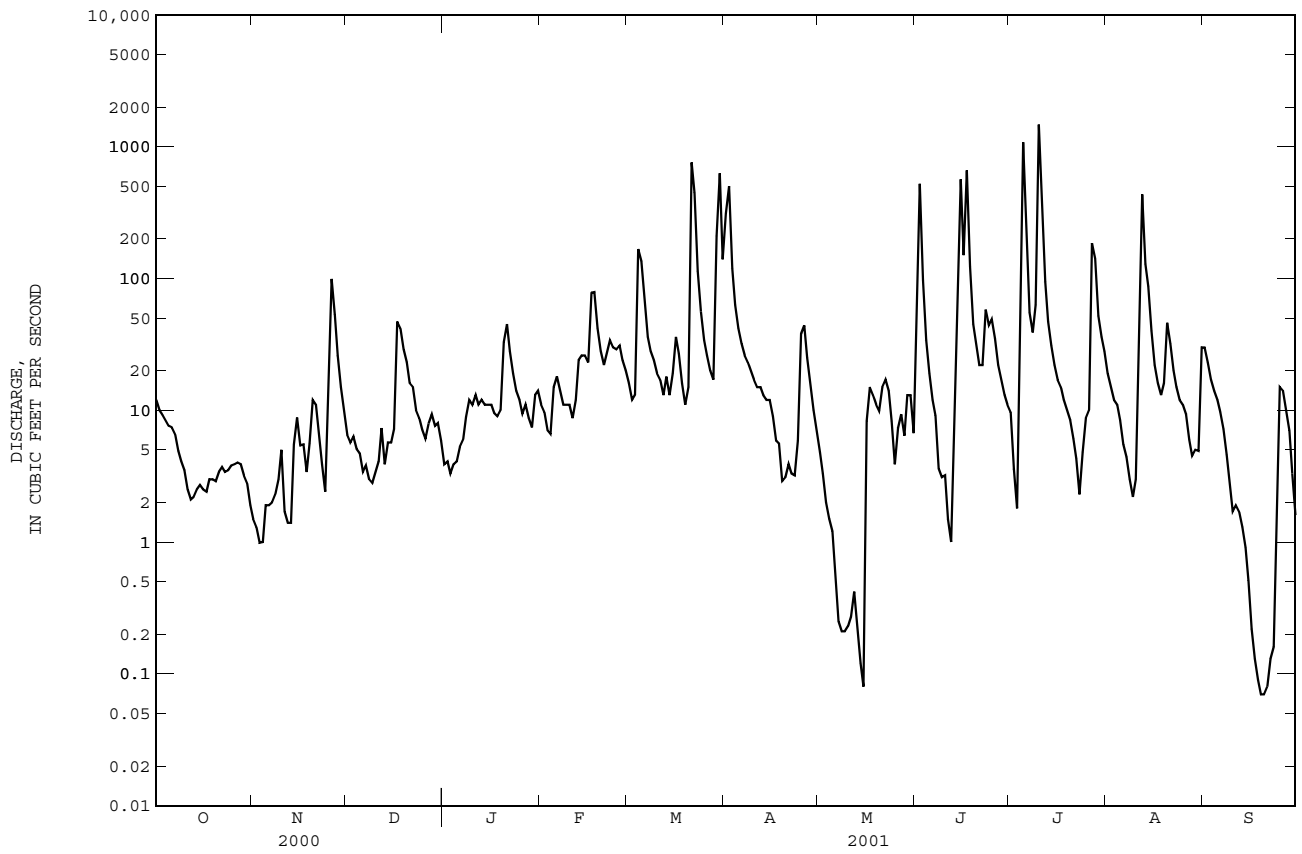
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	25.1	25.9	23.1	63.4	57.1	73.1	37.6	22.9	30.4	25.0	19.4	48.6
MAX	106	69.4	50.9	183	159	183	90.5	75.7	91.5	130	81.4	323
(WY)	1996	1996	1990	1998	1998	1998	1993	1989	2001	2001	1989	1999
MIN	4.38	3.16	7.81	12.1	14.4	15.1	10.7	4.95	.19	1.16	.61	.11
(WY)	1992	1992	1989	2001	1991	1988	1995	2000	1999	1988	1997	1990

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	11775.45		14619.44			
ANNUAL MEAN	32.2		40.1		38.8	
HIGHEST ANNUAL MEAN					61.9	1998
LOWEST ANNUAL MEAN					18.4	1992
HIGHEST DAILY MEAN	723	Sep 26	1470	Jul 10	2700	Sep 6 1996
LOWEST DAILY MEAN	.19	May 21	.07	Sep 19	.01	Jun 28 1993
ANNUAL SEVEN-DAY MINIMUM	.93	May 15	.10	Sep 17	.03	Aug 3 1999
MAXIMUM PEAK FLOW			2160	Jul 10	6790	Sep 6 1996
MAXIMUM PEAK STAGE			11.69	Jul 10	14.15*	Sep 6 1996
INSTANTANEOUS LOW FLOW			.06*	Sep 19	.00*	Jun 27 1993
10 PERCENT EXCEEDS	76		57		76	
50 PERCENT EXCEEDS	13		11		13	
90 PERCENT EXCEEDS	2.3		1.8		.48	

* See REMARKS.

0208758850 SWIFT CREEK NEAR MCCULLARS CROSSROADS, NC--Continued



02088000 MIDDLE CREEK NEAR CLAYTON, NC

LOCATION.--Lat 35°34'10", long 78°35'30", 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 184.53 ft above sea level. Nov. 1-20, 1939, 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 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. 19, 20.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	31	42	37	55	59	377	38	35	34	76	43
2	60	31	40	37	47	56	561	34	273	34	63	42
3	53	32	41	37	45	56	642	34	341	30	54	39
4	46	33	41	39	44	174	243	31	77	26	47	37
5	42	34	39	40	59	357	155	31	47	1840	43	38
6	40	38	39	41	72	183	127	28	37	2130	39	36
7	36	40	39	42	60	102	111	25	33	520	36	33
8	32	40	39	44	53	82	101	24	30	121	33	29
9	29	41	38	50	49	73	91	23	30	197	30	30
10	29	45	39	48	48	67	84	21	33	939	29	34
11	29	49	38	44	49	63	76	22	32	784	82	37
12	29	42	39	44	47	61	74	21	25	187	720	33
13	29	40	38	49	70	64	71	20	32	114	810	27
14	27	46	36	51	80	65	65	19	242	79	794	24
15	25	60	38	48	78	71	62	18	315	66	271	22
16	24	49	40	46	70	123	59	33	383	56	106	21
17	23	41	132	43	106	96	54	71	631	49	76	20
18	23	39	137	41	176	76	54	47	671	43	66	19
19	24	41	73	42	92	66	52	38	132	40	94	18
20	24	63	62	102	73	69	49	34	71	40	137	17
21	22	72	58	143	67	485	45	45	54	36	99	20
22	22	56	52	84	66	915	43	56	46	33	69	23
23	21	44	49	66	86	776	41	49	88	29	57	24
24	22	40	45	59	82	220	39	43	170	31	51	67
25	24	51	43	54	72	130	92	31	133	69	51	134
26	25	170	40	50	83	105	128	25	77	64	47	74
27	26	120	40	48	75	94	73	35	60	530	42	43
28	30	65	42	47	65	85	55	33	49	949	39	32
29	32	48	41	45	---	171	44	36	40	365	38	27
30	31	46	40	48	---	576	39	42	38	142	37	24
31	29	---	39	59	---	810	---	34	---	102	37	---
TOTAL	972	1547	1519	1628	1969	6330	3707	1041	4225	9679	4173	1067
MEAN	31.4	51.6	49.0	52.5	70.3	204	124	33.6	141	312	135	35.6
MAX	64	170	137	143	176	915	642	71	671	2130	810	134
MIN	21	31	36	37	44	56	39	18	25	26	29	17
CFSM	.38	.62	.59	.63	.84	2.45	1.48	.40	1.69	3.74	1.61	.43
IN.	.43	.69	.68	.73	.88	2.82	1.65	.46	1.88	4.31	1.86	.48

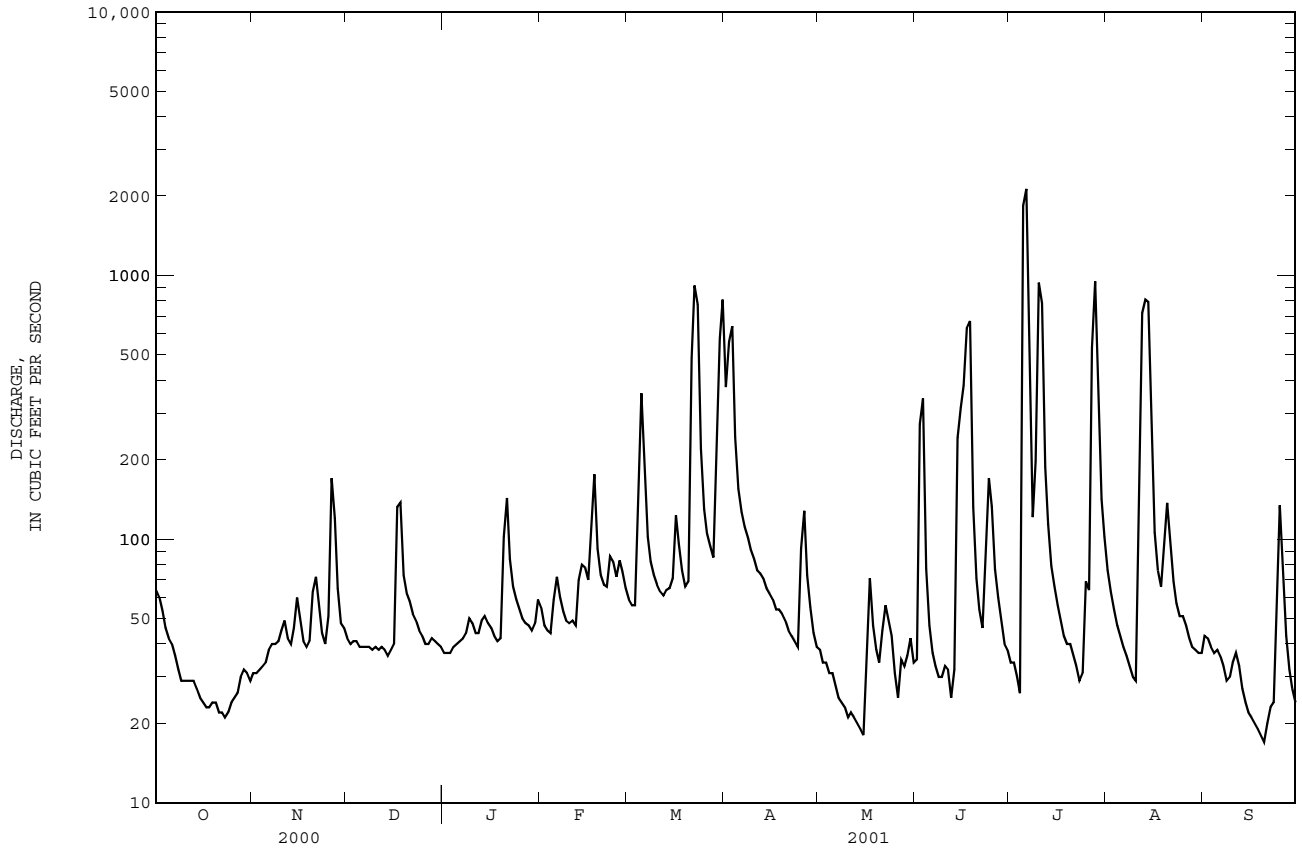
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	52.6	64.6	84.5	138	166	170	115	71.2	54.0	58.2	58.2	62.6
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	.77	4.67	19.7	31.6	46.2	45.1	16.1	11.4	2.15	.23	1.75	.50
(WY)	1987	1974	1952	1942	1941	1981	1986	1981	1986	1986	1983	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1940 - 2001	
ANNUAL TOTAL	35134		37857			
ANNUAL MEAN	96.0		104		90.9	
HIGHEST ANNUAL MEAN					161	1965
LOWEST ANNUAL MEAN					30.0	1981
HIGHEST DAILY MEAN	893	Aug 5	2130	Jul 6	6260	Sep 6 1996
LOWEST DAILY MEAN	12	Jun 14	17	Sep 20	.00	Oct 11 1954
ANNUAL SEVEN-DAY MINIMUM	16	Jun 8	20	Sep 15	.00	Jul 13 1986
MAXIMUM PEAK FLOW			4480	Jul 5	11900*	Sep 6 1996
MAXIMUM PEAK STAGE			12.58	Jul 5	14.88*	Sep 6 1996
INSTANTANEOUS LOW FLOW			16*	May 15	.00*	Oct 11 1954
ANNUAL RUNOFF (CFSM)	1.15		1.24		1.09	
ANNUAL RUNOFF (INCHES)	15.65		16.87		14.79	
10 PERCENT EXCEEDS	206		170		199	
50 PERCENT EXCEEDS	53		47		46	
90 PERCENT EXCEEDS	22		27		7.6	

* See REMARKS.

02088000 MIDDLE CREEK NEAR CLAYTON, NC--Continued



02088500 LITTLE RIVER NEAR PRINCETON, NC

LOCATION.--Lat 35°30'40", long 78°09'38", 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 sea level. Prior to Nov. 17, 1934, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Slight fluctuation and occasional regulation for short periods is caused by mills upstream from station. Minimum discharge for period of record occurred frequently in June 1986 due to regulation from unknown source. Maximum discharge for period of record, from rating curve extended above 9,000 ft^3/s, by logarithmic plotting.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	555	26	124	90	110	156	1220	86	52	49	203	36
2	314	27	107	86	103	139	1390	72	262	42	131	33
3	199	31	108	82	92	129	1420	62	319	36	93	32
4	149	31	117	78	85	280	1440	53	300	32	73	31
5	119	33	119	81	112	623	1410	45	253	49	60	32
6	100	33	114	82	157	628	922	39	154	310	53	31
7	84	42	108	81	154	505	540	34	95	287	45	29
8	71	35	104	83	129	375	387	31	65	138	38	27
9	62	36	100	97	114	266	309	29	50	101	33	27
10	55	43	93	105	111	208	256	28	42	80	32	26
11	50	42	91	98	102	172	215	26	35	65	44	33
12	48	45	91	92	91	151	190	30	31	53	156	119
13	44	43	83	92	104	145	175	25	26	44	449	156
14	41	52	87	91	127	153	157	19	37	38	590	86
15	40	76	98	90	145	156	141	18	82	34	608	55
16	39	79	98	90	148	278	129	29	239	30	352	41
17	39	79	255	85	221	277	116	29	1020	26	219	33
18	36	76	684	79	360	222	109	33	1040	23	205	30
19	33	79	421	75	345	175	99	36	648	29	145	27
20	31	113	293	93	290	154	90	39	361	21	124	24
21	30	129	231	196	231	955	86	44	197	20	107	22
22	29	114	196	226	210	1510	82	70	114	23	86	19
23	27	98	173	174	264	1360	78	80	85	21	82	16
24	32	87	150	151	266	1130	73	73	74	19	67	23
25	31	91	135	131	235	916	137	54	74	18	55	51
26	27	293	121	114	239	582	247	51	97	18	47	95
27	27	356	115	103	221	364	241	55	80	54	44	95
28	27	258	113	96	181	273	176	44	83	155	51	64
29	29	189	110	89	---	353	137	48	75	325	66	51
30	29	152	105	90	---	977	106	48	61	248	47	43
31	27	---	98	104	---	1240	---	40	---	228	39	---
TOTAL	2424	2788	4842	3224	4947	14852	12078	1370	6051	2616	4344	1387
MEAN	78.2	92.9	156	104	177	479	403	44.2	202	84.4	140	46.2
MAX	555	356	684	226	360	1510	1440	86	1040	325	608	156
MIN	27	26	83	75	85	129	73	18	26	18	32	16
CFSM	.34	.40	.67	.45	.76	2.07	1.74	.19	.87	.36	.60	.20
IN.	.39	.45	.78	.52	.79	2.38	1.94	.22	.97	.42	.70	.22

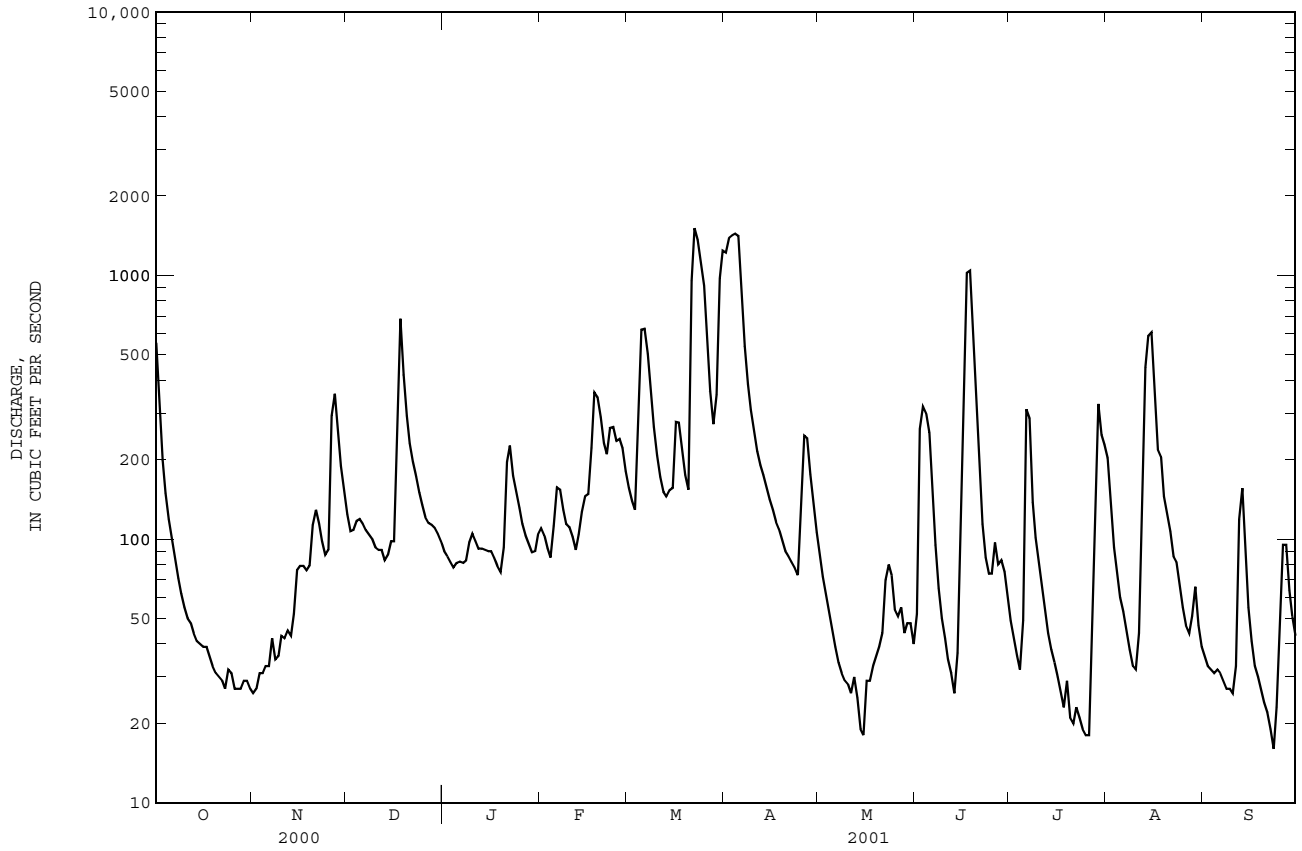
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1930 - 2001, BY WATER YEAR (WY)

MEAN	147	146	229	392	473	479	324	185	150	176	179	183
MAX	1202	645	717	999	1285	1204	969	835	698	826	783	2861
(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	10.9	12.4	4.10	2.84
(WY)	1934	1934	1934	1934	1934	1981	1986	1986	1999	1999	1993	1980

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1930 - 2001	
ANNUAL TOTAL	96572		60923			
ANNUAL MEAN	264		167		256	
HIGHEST ANNUAL MEAN					511	1960
LOWEST ANNUAL MEAN					91.8	1951
HIGHEST DAILY MEAN	1540	Feb 1	1510	Mar 22	17600	Sep 17 1999
LOWEST DAILY MEAN	20	Jun 16	16	Sep 23	.08	Jun 16 1986
ANNUAL SEVEN-DAY MINIMUM	24	May 17	20	Jul 20	.36	Aug 29 1993
MAXIMUM PEAK FLOW			1550	Mar 22	20700*	Sep 17 1999
MAXIMUM PEAK STAGE			8.39	Mar 22	16.58	Sep 17 1999
INSTANTANEOUS LOW FLOW			15	Sep 24	.08*	Jun 1 1986
ANNUAL RUNOFF (CFSM)	1.14		.72		1.10	
ANNUAL RUNOFF (INCHES)	15.48		9.77		14.99	
10 PERCENT EXCEEDS	674		333		630	
50 PERCENT EXCEEDS	141		91		117	
90 PERCENT EXCEEDS	33		29		20	

* See REMARKS.

02088500 LITTLE RIVER NEAR PRINCETON, NC--Continued



02089000 NEUSE RIVER NEAR GOLDSBORO, NC

LOCATION.--Lat 35°20'14", 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 sea level. 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. National Weather Service telephone telemetry at station. 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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6710	585	1530	958	955	1440	6280	1220	945	890	3900	1030
2	4490	576	1330	943	1020	1320	6860	1020	1490	726	2880	1370
3	2840	574	1190	1010	976	1220	7300	906	2710	691	2290	1250
4	2080	573	1150	1020	912	1380	7530	824	3560	646	1670	1150
5	1660	581	1130	1070	942	1970	7680	752	3590	769	1220	1040
6	1420	587	1150	1040	1010	3330	7800	704	2950	1090	916	948
7	1270	584	1150	993	1220	3540	7740	671	1970	2350	856	883
8	1140	615	1080	938	1210	3210	7070	643	1340	2660	773	814
9	1040	624	1060	923	1160	2650	5900	610	960	3020	658	844
10	955	621	1000	944	1080	2180	5110	593	809	2730	622	844
11	899	599	966	966	1020	1910	4840	583	699	1500	611	1090
12	852	616	973	946	983	1710	4810	585	672	1500	875	1150
13	824	611	934	937	1000	1580	4870	586	667	1930	1510	1320
14	806	640	935	949	1060	1320	4910	591	866	2340	3070	1200
15	773	664	953	968	1240	1290	4910	576	1070	1660	4050	1030
16	745	781	965	981	1320	1340	4870	631	2160	973	4740	908
17	724	935	1010	963	1420	1670	4830	645	2960	735	4980	781
18	707	861	1420	956	1590	1800	4800	913	4050	624	5180	739
19	696	848	2430	921	2390	1640	4740	872	4750	590	5480	727
20	685	920	2480	927	2400	1490	4670	819	5220	546	3680	668
21	684	1000	1980	984	1970	3850	4600	831	4530	522	3180	619
22	657	1210	1720	1440	1720	5180	3810	825	2770	500	2590	599
23	653	1180	1560	1600	1650	5990	2170	854	1630	498	2150	591
24	627	1070	1390	1370	1710	6760	2300	852	1280	522	1800	608
25	627	1040	1250	1220	1740	7260	2870	840	1290	512	1450	828
26	621	1300	1140	1140	1630	7430	3170	904	1390	481	1190	1130
27	628	1940	1060	1080	1600	7170	3450	939	1310	720	1070	1360
28	610	2510	1020	993	1540	6300	3600	932	1110	1210	983	1070
29	602	2250	1010	952	---	5550	2850	938	1010	2870	996	830
30	592	1830	1020	923	---	5660	1640	938	952	4160	973	768
31	579	---	978	911	---	5830	---	946	---	4180	953	---
TOTAL	38196	28725	38964	31966	38468	104970	147980	24543	60710	44145	67296	28189
MEAN	1232	958	1257	1031	1374	3386	4933	792	2024	1424	2171	940
MAX	6710	2510	2480	1600	2400	7430	7800	1220	5220	4180	5480	1370
MIN	579	573	934	911	912	1220	1640	576	667	481	611	591

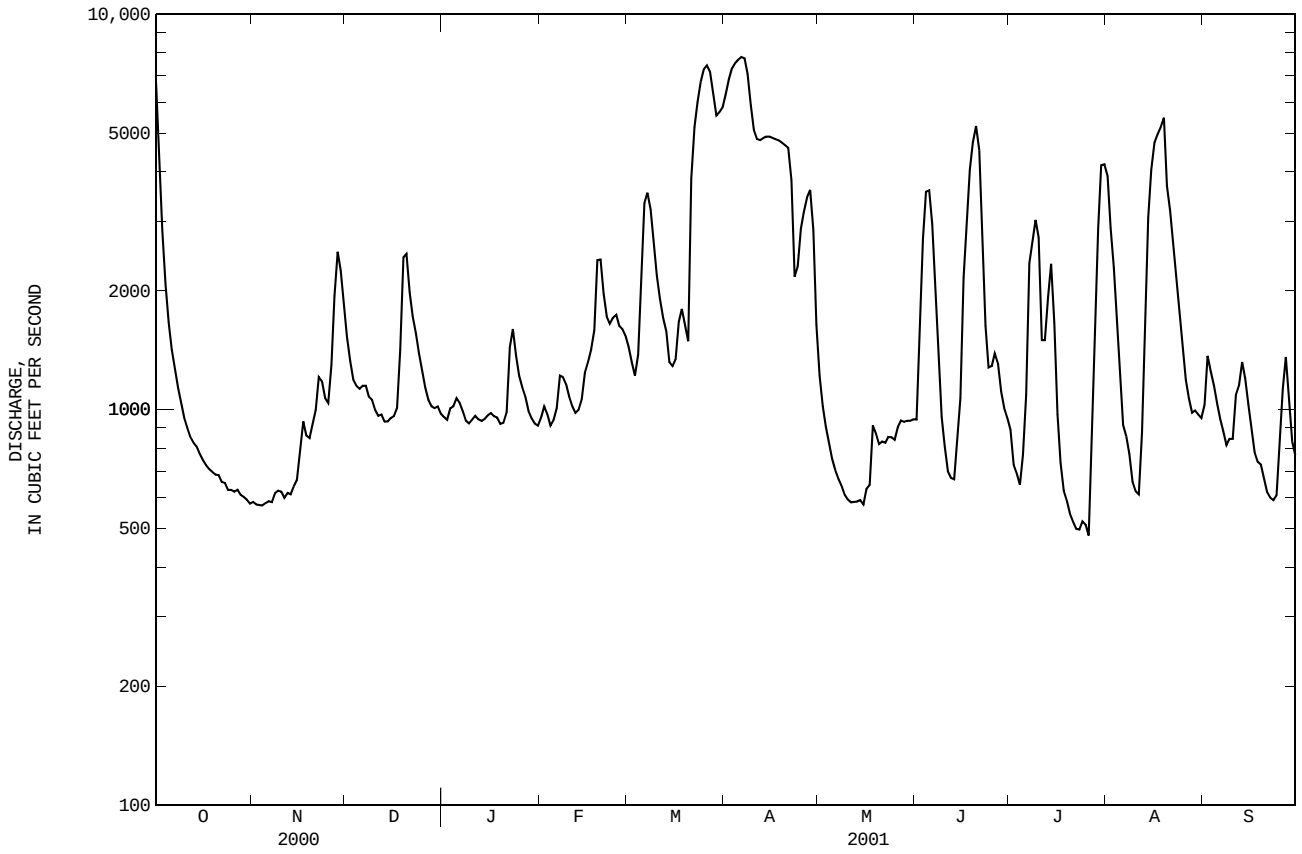
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,* BY WATER YEAR (WY)

MEAN	1991	1466	2002	3437	4308	5224	3937	1989	1498	1397	1487	2343
MAX	11750	5287	4546	6644	12080	11400	7850	7276	5530	4668	3601	14650
(WY)	2000	1996	1997	1993	1998	1998	1989	1989	1995	1989	1989	1999
MIN	310	326	622	884	1374	1575	631	433	342	394	264	246
(WY)	1984	1988	1988	1986	2001	1988	1986	1986	1986	1987	1983	1985

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001*	
ANNUAL TOTAL	871605		654152			
ANNUAL MEAN	2381		1792		2686	
HIGHEST ANNUAL MEAN					3869	1996
LOWEST ANNUAL MEAN					1042	1988
HIGHEST DAILY MEAN	7630	Feb 18	7800	Apr 6	38200	Sep 20 1999
LOWEST DAILY MEAN	568	Jun 14	481	Jul 26	162	Sep 10 1983
ANNUAL SEVEN-DAY MINIMUM	579	Oct 31	512	Jul 20	172	Sep 15 1985
MAXIMUM PEAK FLOW			7830	Apr 6	38500	Sep 20 1999
MAXIMUM PEAK STAGE			16.55	Apr 6	28.85	Sep 20 1999
INSTANTANEOUS LOW FLOW			460	Jul 23	157*	Sep 19 1985
10 PERCENT EXCEEDS	6040		4700		6790	
50 PERCENT EXCEEDS	1410		1070		1320	
90 PERCENT EXCEEDS	685		621		408	

* Regulated period only (1983-2001). See REMARKS.

02089000 NEUSE RIVER NEAR GOLDSBORO, NC--Continued



352108077490901 DRAINAGE DITCH (BC1-D1) TO BEAR CREEK NEAR SHADETOWN, NC

LOCATION.--Lat 35°21'40.6", long 77°49'08.9", North American Datum of 1983, Lenoir County, Hydrologic Unit 03020202, approximately 0.6 mi north of State Road 1501 and 1 mi northwest of Shadetown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
29...	1345	37.2	4.4	52	5.7	126	23.4	25	37	9.60	3.20	2.70	5.4
SEP													
25...	1405	171	3.0	34	5.3	150	22.3	37	43	11.0	3.80	3.00	5.5
OCT													
23...	1230	34.6	6.8	69	5.5	122	16.8	29	37	9.80	3.00	1.70	5.8
NOV													
14...	0935	31.6	7.3	71	5.8	126	13.5	22	37	9.40	3.30	3.10	5.7
DEC													
13...	1145	104	9.4	83	5.4	135	11.0	36	40	11.0	3.00	1.80	5.7
JAN 2001													
16...	1200	82.9	9.6	96	5.2	137	15.2	36	40	11.0	3.00	1.80	5.9
FEB													
07...	1045	81.3	10	93	5.1	137	12.6	37	40	11.0	3.10	1.80	5.9
28...	1150	64.7	10.0	96	5.0	135	13.3	34	37	10.0	2.90	1.80	5.8
APR													
04...	1100	116	9.6	90	5.1	136	13.1	37	40	11.0	3.10	1.80	5.9
MAY													
03...	1210	77.6	9.7	109	5.2	127	21.4	34	37	10.0	2.80	1.40	5.9
JUN													
12...	1500	51.8	8.9	120	5.5	125	30.3	31	36	9.80	2.70	1.50	5.9
JUL													
11...	1310	46.3	7.6	100	5.8	128	28.4	29	36	9.70	2.90	2.10	6.0
AUG													
16...	1410	66.9	7.6	98	5.6	128	28.9	30	37	9.90	3.00	2.00	5.9

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG 2000													
29...	12	14.0	19.0	61	.020	.23	.32	--	<.020	<.010	.21	.30	--
SEP													
25...	7	14.0	26.0	75	.280	.54	.91	1.58	1.60	.020	.26	.63	2.5
OCT													
23...	8	14.0	20.0	63	.020	.25	.27	--	.820	<.010	.23	.25	1.1
NOV													
14...	15	15.0	17.0	63	.030	.35	.39	--	.030	<.010	.32	.36	.42
DEC													
13...	3	13.0	25.0	72	.116	<.20	<.20	--	2.30	<.010	--	--	--
JAN 2001													
16...	4	13.0	25.0	73	.050	<.20	<.20	--	2.50	<.010	--	--	--
FEB													
07...	3	13.0	25.0	73	.060	<.20	.28	--	2.50	<.010	--	.22	2.8
28...	3	13.0	25.0	72	.082	.22	.30	--	2.50	<.010	.14	.22	2.8
APR													
04...	3	13.0	26.0	87	.046	<.20	<.20	--	5.50	<.010	--	--	--
MAY													
03...	3	13.0	24.0	67	.018	.22	.27	--	1.70	<.010	.20	.25	2.0
JUN													
12...	4	13.0	23.0	64	.038	.23	.41	--	1.20	<.010	.19	.37	1.6
JUL													
11...	7	13.0	22.0	65	.063	.20	.48	--	1.10	<.010	.14	.42	1.6
AUG													
16...	7	13.0	24.0	67	.068	<.20	.50	--	1.00	<.010	--	.43	1.5

352108077490901 DRAINAGE DITCH (BC1-D1) TO BEAR CREEK NEAR SHADETOWN, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 2000						
29...	.040	.030	.110	2.5	60	36.0
SEP						
25...	.050	.050	.270	3.1	420	37.0
OCT						
23...	.020	<.010	.050	2.4	50	8.7
NOV						
14...	.030	.020	.050	2.1	30	8.0
DEC						
13...	.100	.020	.170	1.7	300	45.0
JAN 2001						
16...	.060	<.010	.180	.90	150	43.0
FEB						
07...	<.020	.020	.140	1.2	180	43.0
28...	.060	.040	.160	1.0	160	42.0
APR						
04...	.060	.060	.120	1.9	140	44.0
MAY						
03...	.050	.040	.100	2.2	30	37.0
JUN						
12...	.060	.070	.170	1.8	140	41.0
JUL						
11...	.060	.040	.160	3.6	110	42.0
AUG						
16...	.050	.040	.220	2.2	140	41.0

352053077483001 TILE DRAIN (BC1-T1) TO BEAR CREEK TRIBUTARY NEAR SHADETOWN, NC

LOCATION.--Lat 35°20'53.2", long 77°48'30.1", North American Datum of 1983, Lenoir County, Hydrologic Unit 03020202, at State Road 1501 and 0.35 mi west of Shadetown.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
29...	1210	6.1	5.2	60	4.5	174	21.4	48	51	14.0	3.90	5.50	3.5
SEP													
25...	1810	E10.1	5.4	63	4.6	230	22.5	64	67	17.0	6.00	7.30	4.3
OCT													
23...	1530	E.22	8.6	92	5.0	155	19.3	42	47	13.0	3.60	5.30	3.8
DEC													
13...	1020	E4.1	8.5	76	5.0	177	11.2	54	57	15.0	4.70	4.50	3.8
FEB 2001													
28...	1045	E.72	8.5	78	4.6	174	11.4	52	56	15.0	4.40	4.60	4.0
APR													
04...	0940	E.90	7.8	72	4.8	189	12.1	56	61	16.0	5.00	5.40	4.0
MAY													
03...	1130	E.27	8.2	87	5.3	164	18.4	46	49	13.0	4.00	5.60	4.2
JUN													
12...	1320	E1.1	8.3	97	5.1	189	22.6	56	59	16.0	4.60	5.60	3.9
JUL													
11...	1150	E1.2	7.0	85	4.9	204	23.9	61	65	18.0	4.80	6.90	4.0
AUG													
16...	1305	E1.1	4.1	49	4.6	177	24.2	49	54	15.0	4.10	6.00	3.7

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
AUG 2000													
29...	3	12.0	23.0	94	.010	.42	.51	6.70	<.010	.41	.50	7.2	.150
SEP													
25...	3	13.0	30.0	128	.020	.41	.44	11.0	<.010	.39	.42	11	.130
OCT													
23...	5	12.0	26.0	84	.020	.45	.47	3.80	<.010	.43	.45	4.3	.130
DEC													
13...	3	14.0	29.0	95	.030	<.20	<.20	5.00	<.010	--	--	--	.100
FEB 2001													
28...	3	13.0	26.0	96	.028	.32	.27	6.00	<.010	.29	.24	6.3	.090
APR													
04...	4	14.0	26.0	106	.017	.33	.40	7.40	<.010	.31	.38	7.8	.100
MAY													
03...	3	15.0	29.0	87	.029	.32	.32	3.10	<.010	.29	.29	3.4	.090
JUN													
12...	3	15.0	24.0	105	.024	.34	.34	7.50	<.010	.32	.32	7.8	.100
JUL													
11...	4	17.0	24.0	114	.024	.38	.52	8.20	<.010	.36	.50	8.7	.140
AUG													
16...	5	18.0	27.0	93	.026	.23	.33	3.50	<.010	.20	.30	3.8	.140

352053077483001 TILE DRAIN (BC1-T1) TO BEAR CREEK TRIBUTARY NEAR SHADETOWN, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 2000					
29...	.110	.260	3.6	40	44.0
SEP					
25...	.080	.120	2.7	60	52.0
OCT					
23...	.090	.190	3.1	200	44.0
DEC					
13...	.060	.120	2.6	90	53.0
FEB 2001					
28...	.080	.110	2.3	90	49.0
APR					
04...	.070	.110	3.2	80	51.0
MAY					
03...	.070	.140	2.8	180	47.0
JUN					
12...	.130	.120	2.0	100	50.0
JUL					
11...	.120	.230	3.4	110	55.0
AUG					
16...	.100	.150	3.4	130	49.0

0208923650 UNNAMED TRIBUTARY (BC1-D2) TO BEAR CREEK NEAR SHADETOWN, NC

LOCATION.--Lat 35°20'52.6", long 77°48'29.8", North American Datum of 1983, Lenoir County, Hydrologic Unit 03020202, at State Road 1501 and 0.35 mi west of Shadetown.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
29...	1015	103	5.4	61	5.6	111	20.5	22	31	7.40	3.10	3.20	5.1
SEP													
25...	1635	1180	6.3	74	5.1	175	22.2	47	51	13.0	4.40	4.10	4.8
OCT													
23...	1400	175	8.1	83	5.4	128	17.3	31	36	8.90	3.40	3.50	5.4
NOV													
14...	1100	148	6.8	66	5.8	125	14.1	24	31	7.30	3.20	6.10	5.1
DEC													
13...	0930	323	10.6	86	5.6	154	7.1	46	50	13.0	4.30	3.10	4.9
JAN 2001													
16...	1405	117	11.2	109	5.6	122	14.2	28	34	8.70	3.10	2.90	5.2
FEB													
07...	0850	112	9.0	72	5.4	121	6.2	29	36	8.90	3.30	3.30	5.2
28...	0950	175	8.6	78	5.2	135	11.2	30	40	10.0	3.60	3.20	5.3
APR													
04...	0915	330	9.4	85	5.3	152	11.1	41	47	12.0	4.20	2.90	5.2
MAY													
03...	1040	89.8	7.6	76	5.7	115	15.9	25	33	7.70	3.30	2.60	5.5
JUN													
12...	1400	85.3	8.6	104	5.7	112	24.2	24	32	7.50	3.30	2.10	5.4
JUL													
11...	1210	162	6.1	71	5.9	126	22.8	28	37	9.30	3.40	2.50	5.6
AUG													
16...	1210	157	5.0	57	5.5	119	21.2	26	37	9.40	3.20	2.30	5.1

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG 2000													
29...	9	10.0	17.0	59	.050	.21	.22	1.79	1.80	.010	.16	.17	2.0
SEP													
25...	3	15.0	16.0	97	.070	.39	.34	--	8.40	<.010	.32	.27	8.7
OCT													
23...	6	12.0	17.0	70	.010	.24	.28	--	3.60	<.010	.23	.27	3.9
NOV													
14...	8	12.0	17.0	67	.090	.40	.47	2.49	2.50	.010	.31	.38	3.0
DEC													
13...	4	15.0	16.0	87	.040	<.20	<.20	--	6.20	<.010	--	--	--
JAN 2001													
16...	6	12.0	18.0	66	.027	<.20	<.20	--	2.70	<.010	--	--	--
FEB													
07...	7	11.0	19.0	66	.044	.23	.20	--	2.40	<.010	.19	.16	2.6
28...	9	13.0	18.0	75	.134	.39	.34	3.49	3.50	.010	.26	.21	3.8
APR													
04...	6	14.0	16.0	87	.076	.32	.36	--	6.40	<.010	.24	.28	6.8
MAY													
03...	8	11.0	16.0	63	.116	.30	.43	--	2.60	<.010	.18	.31	3.0
JUN													
12...	9	11.0	15.0	58	.036	.25	.28	--	1.80	<.010	.21	.24	2.1
JUL													
11...	9	13.0	15.0	66	.048	<.20	.21	--	2.70	<.010	--	.16	2.9
AUG													
16...	11	12.0	17.0	63	.036	<.20	<.20	--	1.70	<.010	--	--	--

0208923650 UNNAMED TRIBUTARY (BC1-D2) TO BEAR CREEK NEAR SHADETOWN, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
AUG 2000						
29...	.030	.020	.090	2.7	180	26.0
SEP						
25...	<.020	.020	.040	2.8	50	51.0
OCT						
23...	<.020	<.010	.040	3.3	90	40.0
NOV						
14...	.070	.060	.120	2.9	200	46.0
DEC						
13...	<.020	<.010	.050	2.4	130	54.0
JAN 2001						
16...	<.020	<.010	.060	1.5	180	43.0
FEB						
07...	<.020	.020	<.020	1.4	240	44.0
28...	<.020	.020	.040	1.6	160	43.0
APR						
04...	<.020	.010	.040	2.3	170	54.0
MAY						
03...	<.020	<.010	.090	1.6	130	43.0
JUN						
12...	<.020	.040	.060	1.1	80	35.0
JUL						
11...	.020	.010	.050	2.8	100	23.0
AUG						
16...	.020	.010	.040	2.3	90	19.0

0208925200 BEAR CREEK AT MAYS STORE, NC

LOCATION.--Lat 35°16'28", 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map. Satellite telemetry at site.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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 also occurred May 15, 25, 26, July 16, 17, 22.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	28	27	28	29	48	110	23	41	29	49	52
2	60	28	26	28	29	45	102	22	172	27	38	76
3	51	27	28	28	29	44	85	21	103	25	33	68
4	45	26	30	28	32	76	74	21	75	28	29	58
5	41	27	32	28	39	89	66	20	49	e50	26	53
6	39	28	33	29	40	77	59	20	38	e36	27	46
7	39	27	33	28	37	65	55	20	33	29	29	40
8	37	27	35	29	35	56	57	19	28	27	28	e37
9	35	29	42	30	33	52	46	19	26	28	26	34
10	34	31	44	29	32	47	42	18	24	28	e25	33
11	34	29	36	28	31	44	39	18	22	26	24	43
12	32	28	38	28	32	42	36	17	20	23	111	35
13	32	28	35	29	35	42	36	17	19	22	66	31
14	31	28	35	29	35	44	36	17	125	21	159	29
15	31	29	34	31	35	44	34	17	357	20	107	28
16	31	26	33	30	34	52	32	20	377	18	63	26
17	31	26	33	29	44	48	31	20	231	18	47	25
18	31	25	33	28	49	43	31	20	145	18	144	24
19	31	27	32	28	42	40	30	19	101	21	331	23
20	30	34	32	31	39	41	29	18	73	21	157	23
21	30	30	31	32	37	455	28	21	60	19	231	23
22	30	28	32	31	45	367	27	21	51	18	123	22
23	32	27	30	30	66	238	27	19	48	19	84	22
24	32	26	29	29	53	177	26	18	46	21	68	23
25	31	27	29	29	53	147	27	17	61	22	59	33
26	31	47	29	28	e54	116	32	27	46	e20	51	28
27	32	42	29	28	54	97	29	52	41	29	46	26
28	32	35	31	28	50	78	27	63	36	34	44	24
29	30	31	30	28	---	80	25	75	32	29	45	22
30	30	29	30	29	---	185	24	60	30	156	45	22
31	31	---	29	30	---	136	---	43	---	73	43	---
TOTAL	1106	880	1000	898	1123	3115	1302	802	2510	955	2358	1029
MEAN	35.7	29.3	32.3	29.0	40.1	100	43.4	25.9	83.7	30.8	76.1	34.3
MAX	70	47	44	32	66	455	110	75	377	156	331	76
MIN	30	25	26	28	29	40	24	17	19	18	24	22
CFSM	.62	.51	.56	.50	.70	1.74	.75	.45	1.45	.53	1.32	.59
IN.	.71	.57	.64	.58	.72	2.01	.84	.52	1.62	.62	1.52	.66

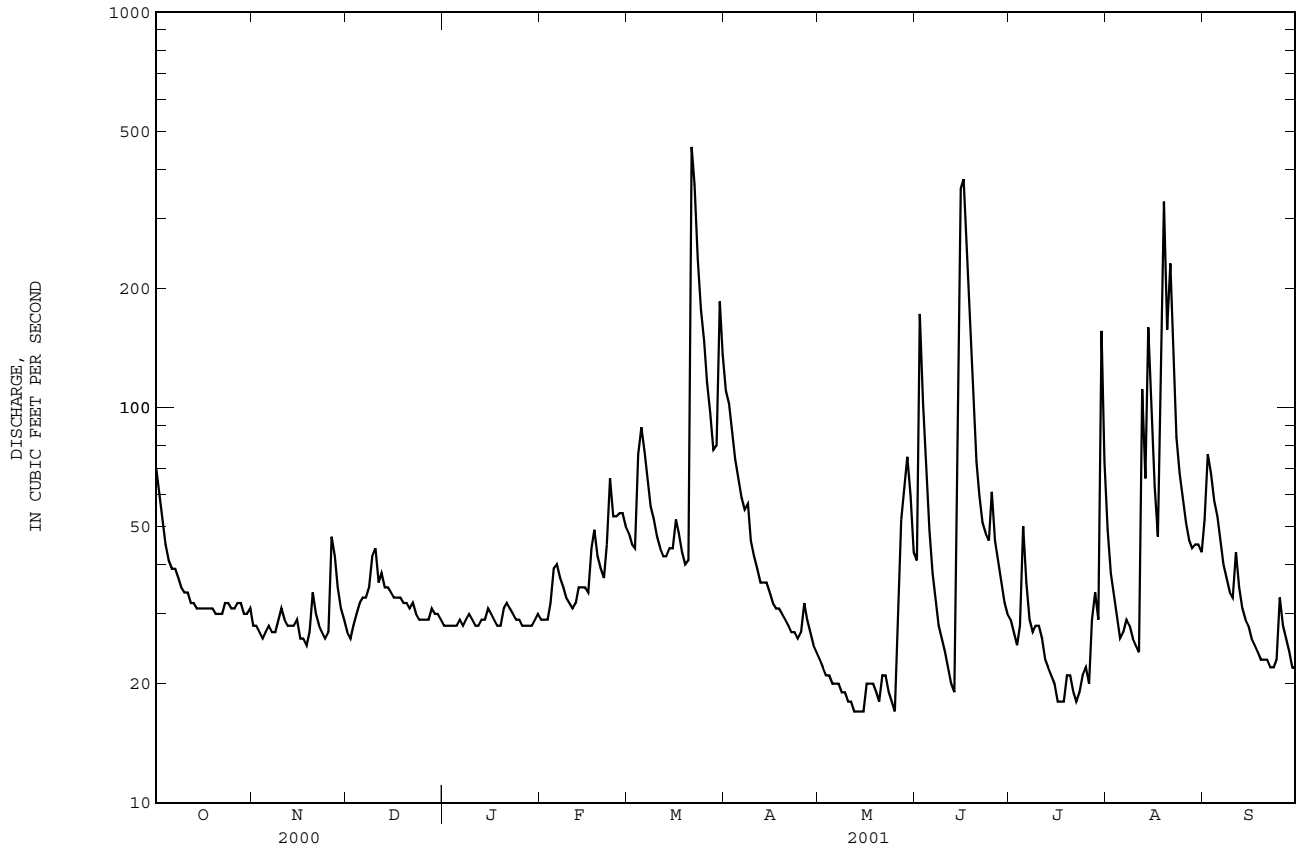
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2001, BY WATER YEAR (WY)

MEAN	67.6	48.8	55.9	102	89.5	104	72.2	57.8	57.6	43.2	60.1	153
MAX	316	119	133	266	306	230	204	216	201	98.5	231	1401
(WY)	2000	1993	1993	1993	1998	1998	1998	1989	1995	1989	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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1988 - 2001	
ANNUAL TOTAL	22155		17078			
ANNUAL MEAN	60.5		46.8		75.9	
HIGHEST ANNUAL MEAN					169	1999
LOWEST ANNUAL MEAN					31.7	1988
HIGHEST DAILY MEAN	403	Jan 31	455	Mar 21	8000	Sep 16 1999
LOWEST DAILY MEAN	17	Aug 23	17	May 12	8.4	Aug 18 1997
ANNUAL SEVEN-DAY MINIMUM	20	Aug 21	18	May 9	9.2	Aug 12 1997
MAXIMUM PEAK FLOW			570	Mar 21	11000*	Sep 16 1999
MAXIMUM PEAK STAGE			7.95	Mar 21	16.04*	Sep 16 1999
INSTANTANEOUS LOW FLOW			16*	May 14	7.7	Aug 18 1997
ANNUAL RUNOFF (CFSM)	1.05		.81		1.31	
ANNUAL RUNOFF (INCHES)	14.28		11.01		17.87	
10 PERCENT EXCEEDS	121		75		147	
50 PERCENT EXCEEDS	37		31		40	
90 PERCENT EXCEEDS	24		21		17	

e Estimated.
* See REMARKS.

0208925200 BEAR CREEK AT MAYS STORE, NC--Continued



0208925200 BEAR CREEK AT MAY'S STORE, NC-- Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1994-96, 2000 to current year.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
29...	1545	42	6.6	75	5.7	94	21.7	17	24	5.30	2.60	3.50	4.7
SEP													
25...	1225	158	6.5	76	5.7	114	22.4	20	28	6.90	2.70	5.20	4.7
OCT													
23...	1045	32	8.8	88	5.8	103	16.0	21	28	6.40	2.80	3.50	5.0
NOV													
14...	1230	29	8.5	83	5.9	108	13.9	19	27	6.00	2.80	3.90	4.7
DEC													
13...	1300	35	10.2	87	5.9	112	9.5	25	31	7.40	3.10	3.90	5.1
JAN 2001													
16...	1000	30	9.1	83	5.7	104	11.7	19	27	6.50	2.70	3.30	5.1
FEB													
07...	1230	36	10.3	89	5.8	102	9.4	20	28	6.50	2.80	3.50	5.3
28...	1315	51	9.1	85	5.6	108	12.6	20	28	6.60	2.80	3.60	5.4
APR													
04...	1215	74	9.2	85	5.8	110	12.4	21	29	7.10	2.80	3.70	5.5
MAY													
03...	0945	22	8.0	82	5.7	100	16.9	21	27	6.20	2.80	2.80	5.1
JUN													
12...	1600	20	7.3	85	5.9	104	22.6	21	28	6.40	2.90	3.30	4.9
JUL													
11...	1400	29	7.1	86	6.3	108	24.2	21	29	6.70	2.90	3.60	4.9
AUG													
16...	1030	60	6.6	77	5.7	99	22.6	16	27	6.50	2.60	4.00	5.0

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG 2000													
29...	7	8.2	13.0	50	.070	.44	.49	1.89	1.90	.010	.37	.42	2.4
SEP													
25...	8	10.0	13.0	59	.090	.72	1.2	2.59	2.60	.010	.63	1.1	3.8
OCT													
23...	6	9.3	14.0	56	.020	.37	<.64	--	2.60	<.010	.35	--	--
NOV													
14...	8	9.2	14.0	58	.070	.38	.48	--	2.80	<.010	.31	.41	3.3
DEC													
13...	6	11.0	15.0	63	.065	<.20	.59	--	2.90	<.010	--	.52	3.5
JAN 2001													
16...	8	10.0	14.0	57	.036	<.20	.22	--	2.30	<.010	--	.18	2.5
FEB													
07...	8	10.0	13.0	55	.047	.25	.34	--	2.10	<.010	.20	.29	2.4
28...	8	11.0	13.0	59	.099	.49	.56	--	2.60	<.010	.39	.46	3.2
APR													
04...	8	11.0	12.0	61	.064	.48	.64	--	2.90	<.010	.42	.58	3.5
MAY													
03...	6	9.1	14.0	56	.072	.34	.36	--	2.70	<.010	.27	.29	3.1
JUN													
12...	7	9.4	13.0	58	.112	.34	.44	--	3.00	<.010	.23	.33	3.4
JUL													
11...	7	9.3	13.0	57	.064	.33	.43	--	2.70	<.010	.27	.37	3.1
AUG													
16...	11	9.7	11.0	54	.112	.57	.81	--	1.80	<.010	.46	.70	2.6

0208925200 BEAR CREEK AT MAY'S STORE, NC-- Continued--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 2000						
29...	.030	.010	.120	5.9	220	32.0
SEP						
25...	.070	.070	.240	8.3	320	37.0
OCT						
23...	<.020	<.010	.120	2.8	70	38.0
NOV						
14...	<.020	.020	.060	2.1	110	39.0
DEC						
13...	<.020	<.010	.060	3.0	180	40.0
JAN 2001						
16...	<.020	<.010	.050	2.5	130	36.0
FEB						
07...	<.020	.020	.050	3.3	120	33.0
28...	<.020	<.010	.070	2.4	170	36.0
APR						
04...	<.020	.030	.100	4.4	280	35.0
MAY						
03...	<.020	<.010	.050	3.2	100	32.0
JUN						
12...	<.020	.040	.090	2.3	60	45.0
JUL						
11...	.030	.010	.100	4.8	110	36.0
AUG						
16...	.050	.050	.170	6.5	440	32.0

02089500 NEUSE RIVER AT KINSTON, NC

LOCATION.--Lat 35°15'29", long 77°35'09", 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 sea level. 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.--Records good except those for estimated daily discharges, which are fair. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6450	769	2200	1220	1090	1800	6520	2480	1110	1180	3930	1190
2	6770	762	1880	1180	1100	1700	6390	1670	1270	1100	4110	1390
3	6840	762	1680	1170	1150	1580	6440	1360	1710	980	3950	1640
4	6220	749	1560	1200	1160	1610	6680	1180	2420	905	3060	1620
5	4390	751	1490	1220	1160	1790	6990	1080	2960	941	2160	1480
6	2890	752	1450	1250	1190	2060	7290	985	3360	1010	1620	1340
7	2090	757	1440	1250	1200	2930	7520	916	3350	1090	1220	1200
8	1780	758	1450	1210	1320	3310	7690	868	2620	2050	1050	1110
9	1570	774	1410	1170	1380	3470	7750	830	1780	2510	978	1040
10	1430	796	1380	1140	1350	3230	7540	789	1300	2830	860	1070
11	1320	793	1330	1140	1270	2740	6960	756	1050	2910	791	1060
12	1230	778	1290	1160	1230	2310	6260	734	907	2100	800	1230
13	1160	777	1290	1160	1210	2050	5700	734	822	1720	1140	1290
14	1110	799	1260	1140	1210	1870	5390	724	959	1920	1690	1410
15	1070	835	1250	1140	1230	1680	5230	711	2230	2260	2830	1380
16	1040	863	1240	1150	1350	1590	5170	725	3030	2100	3290	1230
17	995	897	e1300	1160	1520	1600	5130	771	3430	1320	e4400	1100
18	974	1050	e1400	1150	1680	1770	5080	775	3630	1000	e5200	982
19	951	1090	e2000	1140	1790	1950	5030	923	3830	839	e5800	900
20	931	1140	e2200	1130	2260	1890	4980	995	4150	767	e6200	869
21	907	1190	2550	1130	2530	2790	4930	951	4560	706	6100	826
22	894	1200	2360	1160	2390	4150	4870	951	4940	666	5660	775
23	876	1330	2060	1420	2240	4710	4750	928	4900	642	4490	742
24	857	1380	1860	1700	2100	5330	3840	942	3570	634	3490	732
25	838	1340	1680	1610	2030	5890	3100	942	2440	665	2560	771
26	823	1390	1530	1460	2040	6420	2970	939	1950	652	2050	924
27	822	1570	1410	1350	1950	6850	3170	1000	1810	645	e1600	1110
28	819	1850	1340	1290	1860	7160	3370	1100	1680	762	e1460	1370
29	808	2370	1300	1210	---	7300	3550	1210	1470	1180	e1300	1280
30	792	2460	1270	1160	---	7170	3510	1230	1280	2720	1260	1040
31	784	---	1250	1120	---	6810	---	1140	---	3440	1230	---
TOTAL	60431	32732	49110	38090	43990	107510	163800	31339	74518	44244	86279	34101
MEAN	1949	1091	1584	1229	1571	3468	5460	1011	2484	1427	2783	1137
MAX	6840	2460	2550	1700	2530	7300	7750	2480	4940	3440	6200	1640
MIN	784	749	1240	1120	1090	1580	2970	711	822	634	791	732

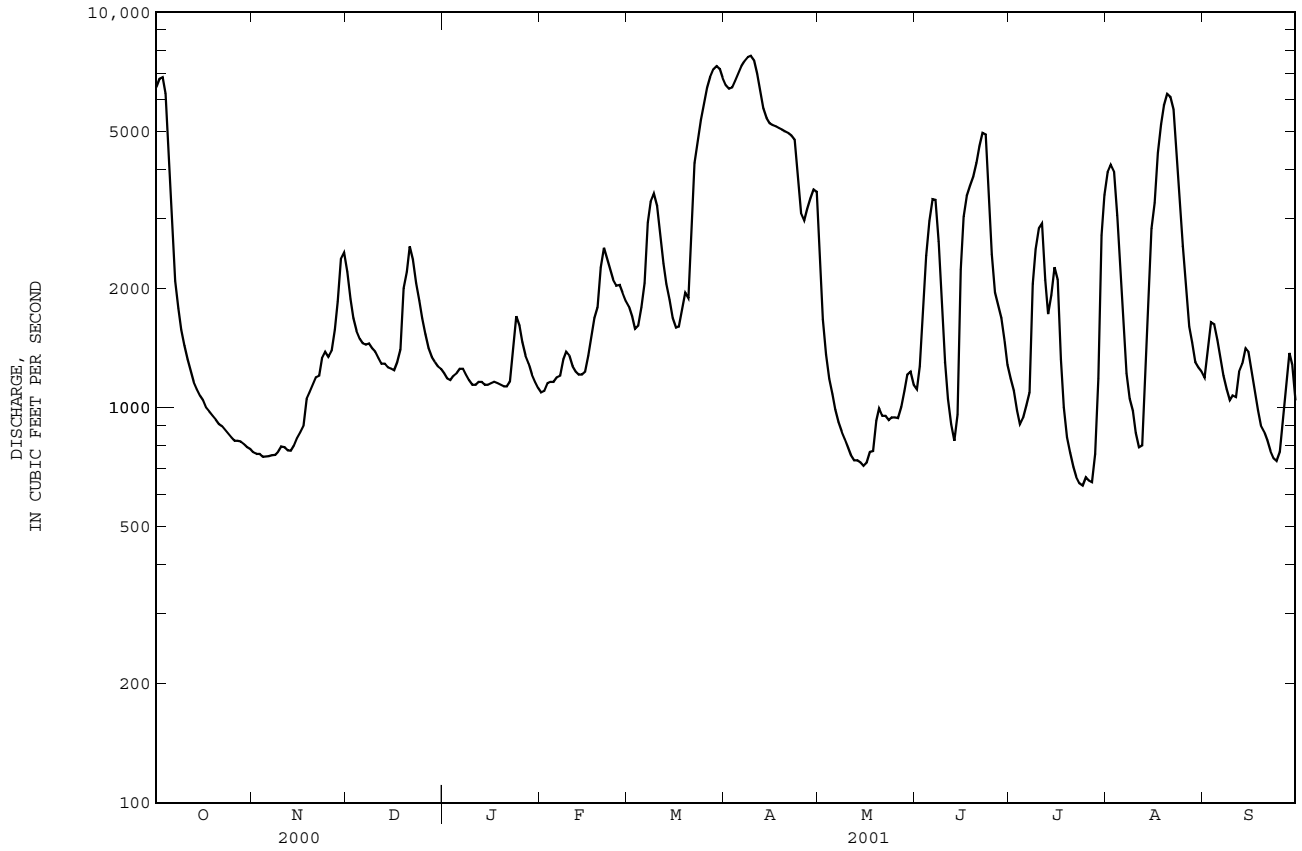
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2001,* BY WATER YEAR (WY)

MEAN	2103	1663	2310	3679	4712	5759	4578	2266	1782	1574	1777	2660
MAX	14280	5643	5097	7560	12600	11410	9582	8773	6062	5223	4068	16430
(WY)	2000	1996	1990	1993	1998	1998	1989	1989	1995	1989	1989	1999
MIN	366	430	760	1181	1571	1673	878	563	460	468	314	357
(WY)	1984	1988	1988	1986	2001	1988	1986	1986	1986	1987	1983	1985

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1983 - 2001*	
ANNUAL TOTAL	1002463		766144			
ANNUAL MEAN	2739		2099		2838	
HIGHEST ANNUAL MEAN					4216	1989
LOWEST ANNUAL MEAN					1204	1988
HIGHEST DAILY MEAN	7740	Feb 20	7750	Apr 9	35800	Sep 23 1999
LOWEST DAILY MEAN	712	Jun 15	634	Jul 24	200	Sep 20 1985
ANNUAL SEVEN-DAY MINIMUM	756	Nov 2	659	Jul 21	214	Sep 16 1985
MAXIMUM PEAK FLOW			7770	Apr 9	36300	Sep 22 1999
MAXIMUM PEAK STAGE			14.65	Apr 9	27.71	Sep 22 1999
INSTANTANEOUS LOW FLOW			625	Jul 24	196	Sep 20 1985
10 PERCENT EXCEEDS	6430		5000		7360	
50 PERCENT EXCEEDS	1850		1340		1610	
90 PERCENT EXCEEDS	861		793		510	

e Estimated.
* Regulated period only (1983-2001). See REMARKS.

02089500 NEUSE RIVER AT KINSTON, NC--Continued



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.

WATER TEMPERATURE: October 1949 to September 1950, January 1955 to September 1956, July 1973 to September 1986.

INSTRUMENTATION.--Water-quality monitor from October 1981 to September 1986.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to present. 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 District Office in Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 242 microsiemens, Sept. 21, 1983; minimum daily, 43 microsiemens, Mar. 28, 1975.

WATER TEMPERATURE: Maximum recorded, 36.0°C, July 13, 14, 19, 20, 1986; minimum daily, 0.0°C, Feb. 7, 1978, Jan. 13, 1981.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
OCT													
17...	1100	--	995	762	7.7	80	7.7	132	17.2	31	7.81	2.70	3.84
NOV													
06...	1045	--	753	762	--	--	7.7	155	--	34	8.49	2.99	4.24
DEC													
07...	1030	--	1440	760	13.9	109	7.7	130	5.0	27	6.63	2.54	5.69
JAN													
24...	1015	--	1710	765	10.3	85	7.2	126	7.3	27	6.63	2.50	3.97
FEB													
21...	1030	--	2550	766	6.9	64	7.3	111	12.0	24	5.75	2.30	3.22
MAR													
27...	1000	--	6830	771	7.8	71	6.4	73	11.5	17	4.08	1.64	3.16
APR													
19...	0930	--	5030	--	--	--	7.3	98	14.5	25	6.02	2.45	2.78
MAY													
21...	1000	--	947	761	6.0	71	7.3	158	23.5	28	6.75	2.76	4.05
JUN													
22...	1030	--	4940	762	4.2	51	6.6	76	26.0	19	4.74	1.77	2.82
JUL													
30...	0930	--	2350	763	6.1	74	7.2	137	24.5	26	6.31	2.45	3.93
AUG													
29...	0945	E1300	--	763	5.5	68	7.1	112	26.5	25	6.07	2.41	3.21
SEP													
19...	1000	--	903	765	6.8	78	7.1	113	22.0	26	6.34	2.41	3.65

DATE	SODIUM AD-SORP-TION RATIO (00931)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
17...	.9	11.7	42	26	32	12.5	E.1	10.2	10.9	250	93	80	E.035
NOV													
06...	1	16.1	47	32	39	16.2	.2	7.7	13.9	203	100	91	E.037
DEC													
07...	1.0	11.8	43	19	23	16.4	E.1	8.7	10.8	342	88	77	E.022
JAN													
24...	1	14.1	49	23	28	14.4	.2	6.8	11.6	392	85	77	E.022
FEB													
21...	1.0	10.9	46	20	24	11.3	E.1	7.0	9.9	523	76	65	E.039
MAR													
27...	.6	5.3	36	10	12	7.3	<.2	5.3	6.8	1330	72	41	<.041
APR													
19...	.7	8.5	39	18	22	9.1	E.1	4.1	9.2	1170	86	55	<.041
MAY													
21...	1	16.1	51	25	31	14.9	.3	7.1	14.8	271	106	85	<.040
JUN													
22...	.5	5.1	33	13	15	6.1	E.1	6.3	5.9	827	62	42	E.028
JUL													
30...	1	14.8	51	24	29	12.7	.2	7.7	11.0	584	92	76	E.031
AUG													
29...	.9	10.1	43	18	22	10.9	.2	8.8	8.4	--	85	62	<.040
SEP													
19...	.8	9.4	40	18	22	11.1	E.1	8.8	7.8	183	75	63	<.040

02089500 NEUSE RIVER AT KINSTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT													
17...	.33	.46	1.2	--	.848	--	E.003	--	1.3	.058	.023	.019	.093
NOV													
06...	.24	.35	.76	--	.512	--	<.006	--	.86	--	.022	E.015	.057
DEC													
07...	.32	.48	1.0	--	.720	--	E.003	--	1.2	.071	.027	.023	.067
JAN													
24...	.36	.40	1.0	--	.661	--	E.005	--	1.1	.064	.036	.021	.082
FEB													
21...	.37	.55	.90	.529	.535	.020	.006	.183	1.1	.150	.061	.049	.168
MAR													
27...	.42	.58	.79	--	.371	--	<.006	.160	.95	.058	.035	.019	.088
APR													
19...	.45	.53	.64	.180	.198	.059	.018	.058	.72	--	.037	<.018	.076
MAY													
21...	.36	.42	1.1	.719	.725	.020	.006	.029	1.1	.055	.041	.018	.096
JUN													
22...	.53	.57	.73	.191	.199	.026	.008	.056	.77	.077	.050	.025	.115
JUL													
30...	.30	.59	.87	.553	.561	.026	.008	.128	1.2	.126	.053	.041	.163
AUG													
29...	.45	.53	--	--	E.423	--	E.005	.062	--	--	.045	E.023	.112
SEP													
19...	.37	.50	.83	.448	.454	.020	.006	.029	.95	.071	.034	.023	.106

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)
OCT													
17...	--	5.8	.3	230	40.1	<.002	<.004	<.005	<.005	E.005	<.010	<.002	<.041
NOV													
06...	--	4.7	<.2	210	37.8	<.002	<.004	<.002	<.005	E.004	<.010	<.002	<.041
DEC													
07...	--	5.4	.6	300	23.3	<.002	<.004	<.002	<.005	E.003	<.010	<.002	<.041
JAN													
24...	--	4.4	.7	400	17.3	--	--	--	--	--	--	--	--
FEB													
21...	1.6	6.4	--	410	12.1	<.002	<.004	<.002	<.005	.060	<.010	<.002	E.007
MAR													
27...	1.3	9.5	--	420	22.4	<.002	<.004	<.002	<.005	.035	<.010	<.002	<.041
APR													
19...	.5	6.8	--	450	38.4	<.002	<.004	.007	<.005	.022	<.010	<.002	<.041
MAY													
21...	.4	5.0	--	200	19.8	<.002	<.004	<.002	<.005	.018	<.010	<.002	<.041
JUN													
22...	.6	9.8	--	440	29.2	<.002	<.004	<.002	<.005	.027	<.010	<.002	E.010
JUL													
30...	1.3	5.1	--	150	18.3	<.002	<.004	<.002	<.005	.009	<.010	<.002	E.009
AUG													
29...	.6	9.0	--	570	39.5	<.002	<.004	<.002	<.005	.008	<.010	<.002	E.004
SEP													
19...	.5	7.6	--	270	30.9	<.002	<.004	<.002	<.005	E.003	<.010	<.002	E.022

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)
OCT													
17...	<.020	<.005	<.018	<.003	<.006	E.004	<.005	<.021	<.005	<.009	<.005	<.003	<.004
NOV													
06...	<.020	<.005	<.018	<.003	E.005	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004
DEC													
07...	<.020	<.005	<.018	<.003	<.006	E.003	<.005	<.021	<.002	<.009	<.005	<.003	<.004
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	<.020	<.005	<.018	<.003	E.004	.028	<.005	<.021	<.002	<.009	<.005	<.003	<.004
MAR													
27...	<.020	<.005	<.018	<.003	E.004	.013	<.005	<.021	<.002	<.009	<.005	<.003	<.004
APR													
19...	<.020	<.005	<.018	<.003	E.004	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004
MAY													
21...	E.025	<.005	<.018	<.003	E.005	E.002	<.005	<.021	<.050	<.009	<.005	<.003	<.004
JUN													
22...	<.020	<.005	<.018	<.003	E.003	.017	<.005	<.021	M	<.009	<.005	<.003	<.004
JUL													
30...	<.020	<.005	<.018	<.003	E.002	.006	<.005	<.021	<.002	<.009	<.005	<.003	<.004
AUG													
29...	<.020	<.005	<.018	<.003	<.006	.008	<.005	<.021	<.002	<.009	<.005	<.003	<.004
SEP													
19...	<.020	<.005	<.018	<.003	<.006	.006	<.005	<.021	<.002	<.009	<.005	<.003	<.004

DATE	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)
OCT													
17...	<.035	E.015	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
NOV													
06...	<.035	<.027	<.050	<.006	E.004	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
DEC													
07...	<.035	E.010	<.050	<.006	.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	<.035	<.027	<.050	<.006	.033	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAR													
27...	<.035	<.027	<.050	<.006	.030	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
APR													
19...	<.035	<.027	<.050	<.006	E.013	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
MAY													
21...	<.035	<.027	<.050	<.006	.046	<.006	.003	<.007	<.003	<.007	<.002	<.010	<.006
JUN													
22...	<.035	E.003	<.050	<.006	.077	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
JUL													
30...	<.035	E.006	<.050	<.006	.019	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
AUG													
29...	<.035	E.008	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006
SEP													
19...	<.035	<.027	<.050	<.006	E.007	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006

02089500 NEUSE RIVER AT KINSTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TER-BUTHYL-AZINE, WATER, DISS, REC (UG/L) (04022)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)
OCT													
17...	<.011	E.011	<.004	<.010	<.011	<.023	E.006	E.006	<.034	<.017	--	<.005	<.002
NOV													
06...	<.011	E.008	<.004	<.010	<.011	<.023	E.007	<.016	<.034	<.017	--	<.005	<.002
DEC													
07...	<.011	E.014	<.004	<.010	<.011	<.100	.122	<.016	<.034	<.017	--	<.005	<.002
JAN													
24...	--	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
21...	<.011	E.008	<.004	<.010	<.011	<.023	.228	<.016	<.034	<.017	--	<.005	<.002
MAR													
27...	<.011	E.011	<.004	<.010	<.011	<.023	.179	<.016	<.034	<.017	--	<.005	<.002
APR													
19...	<.011	E.007	<.004	<.010	<.011	<.030	.074	E.007	<.034	<.017	--	<.005	<.002
MAY													
21...	<.011	.019	<.004	<.010	<.011	<.023	.065	E.008	<.034	<.017	--	<.005	<.002
JUN													
22...	<.011	.023	.008	<.010	<.011	<.023	.030	<.016	<.034	<.017	--	<.005	<.002
JUL													
30...	<.011	.029	<.004	<.010	<.011	<.023	.015	<.016	<.034	<.017	--	<.005	<.002
AUG													
29...	<.011	E.012	<.004	<.010	<.011	<.023	E.008	<.016	<.034	<.017	E.005	<.005	<.002
SEP													
19...	<.011	.018	<.004	<.010	<.011	<.023	E.006	E.004	<.034	<.017	E.015	<.005	<.002

DATE	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT				
17...	<.009	90	11	30
NOV				
06...	<.009	89	5	10
DEC				
07...	<.009	82	8	31
JAN				
24...	--	90	23	106
FEB				
21...	<.009	93	51	351
MAR				
27...	<.009	83	24	443
APR				
19...	<.009	85	20	272
MAY				
21...	<.009	86	25	64
JUN				
22...	<.009	82	30	400
JUL				
30...	<.009	86	64	406
AUG				
29...	<.009	83	36	--
SEP				
19...	<.009	97	57	139

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC

LOCATION.--Lat 35°41'29", long 78°06'38", 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1964 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 117.43 ft above sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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 water year, also occurred July 23, due to regulation.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	19	57	54	77	117	884	67	70	43	107	35
2	151	19	53	65	86	100	1270	54	183	28	73	29
3	115	18	64	44	70	97	1690	48	288	20	52	25
4	95	17	56	54	64	206	1040	46	259	29	40	24
5	82	20	54	49	104	459	591	41	159	201	32	22
6	76	18	49	59	100	531	403	32	105	400	25	21
7	66	19	55	49	109	266	291	37	82	310	22	21
8	51	19	48	60	104	192	236	33	43	173	22	21
9	65	20	46	92	97	173	197	25	31	119	20	21
10	47	63	49	72	102	137	164	24	28	79	20	21
11	24	44	44	64	72	130	145	25	25	60	22	83
12	22	18	71	64	73	115	135	30	23	40	265	141
13	22	18	33	65	85	140	126	29	18	29	265	124
14	22	32	42	62	99	117	115	28	23	34	408	89
15	24	37	43	65	120	123	103	23	61	23	327	51
16	24	24	57	66	129	161	125	24	99	20	194	38
17	22	37	348	60	193	183	78	23	1010	22	126	29
18	24	32	387	58	224	159	104	25	1780	21	101	22
19	24	40	314	60	264	126	31	30	1010	19	96	21
20	22	65	237	105	218	125	41	31	425	19	84	20
21	23	87	151	167	170	822	49	45	194	18	71	20
22	22	53	169	172	158	1480	49	58	114	18	61	20
23	21	31	98	155	151	1200	51	61	80	18	50	20
24	20	33	89	124	150	698	56	49	60	19	41	26
25	19	53	91	124	157	446	110	39	64	21	34	85
26	20	136	72	81	172	308	179	63	82	23	28	116
27	28	154	70	100	140	213	194	146	113	79	32	105
28	27	131	75	57	126	172	148	152	95	286	62	76
29	21	100	67	57	---	264	109	139	68	295	51	54
30	22	100	96	78	---	740	84	113	49	231	40	44
31	22	---	75	87	---	910	---	70	---	154	41	---
TOTAL	1430	1457	3160	2469	3614	10910	8798	1610	6641	2851	2812	1424
MEAN	46.1	48.6	102	79.6	129	352	293	51.9	221	92.0	90.7	47.5
MAX	207	154	387	172	264	1480	1690	152	1780	400	408	141
MIN	19	17	33	44	64	97	31	23	18	18	20	20
CFSM	.29	.30	.63	.49	.80	2.19	1.82	.32	1.37	.57	.56	.29
IN.	.33	.34	.73	.57	.84	2.52	2.03	.37	1.53	.66	.65	.33

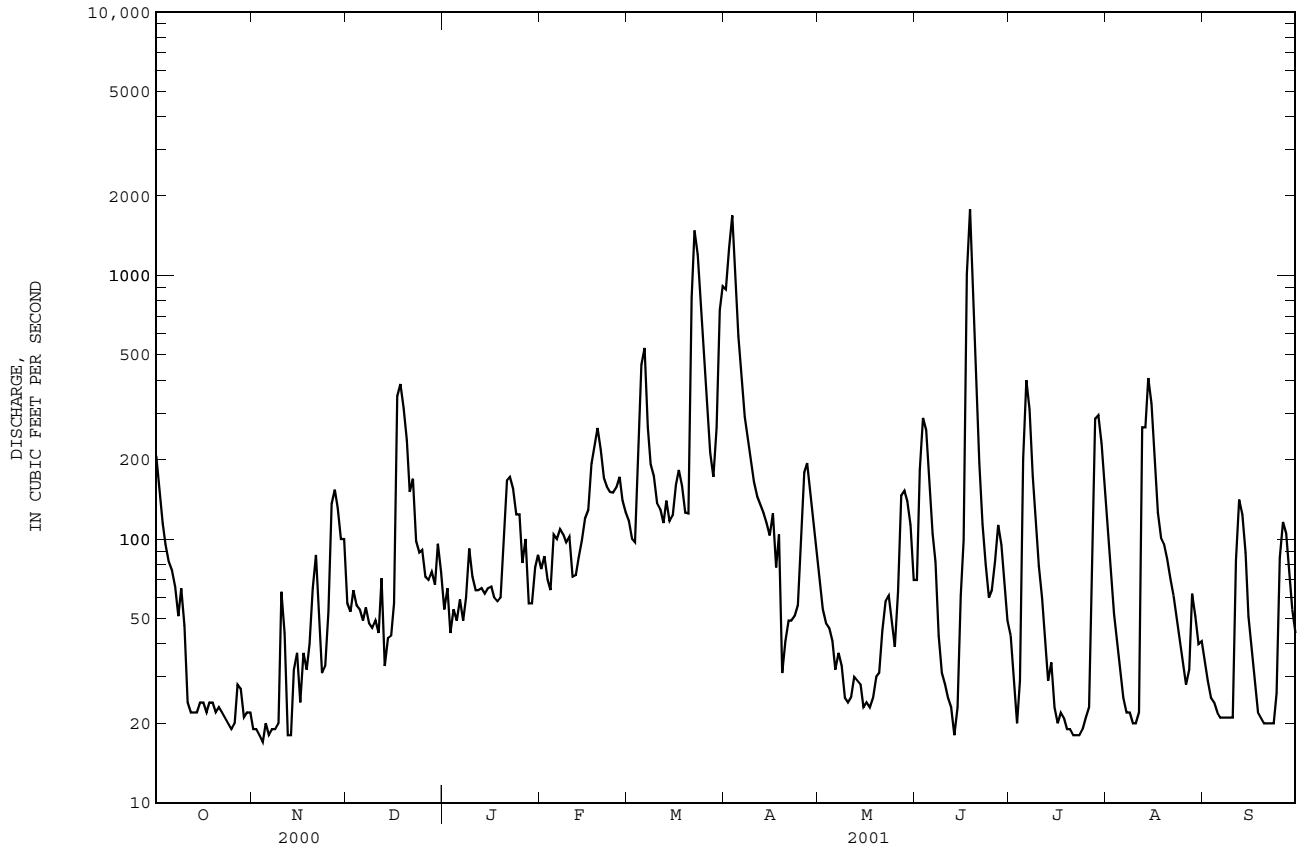
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2001, BY WATER YEAR (WY)

MEAN	83.7	87.4	135	265	307	336	200	119	94.5	88.4	101	99.7
MAX	644	304	404	690	633	803	701	537	359	624	512	1326
(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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1964 - 2001	
ANNUAL TOTAL	64286		47176			
ANNUAL MEAN	176		129		158	
HIGHEST ANNUAL MEAN					278	1984
LOWEST ANNUAL MEAN					35.5	1981
HIGHEST DAILY MEAN	1560	Sep 27	1780	Jun 18	13000	Sep 17 1999
LOWEST DAILY MEAN	12	Sep 17	17	Nov 4	.04	Sep 9 1976
ANNUAL SEVEN-DAY MINIMUM	19	Nov 1	19	Nov 1	.04	Sep 8 1976
MAXIMUM PEAK FLOW			1920	Jun 18	24000*	Sep 17 1999
MAXIMUM PEAK STAGE			10.31	Jun 18	24.82*	Sep 17 1999
INSTANTANEOUS LOW FLOW			17*	Jul 22	.04*	Sep 9 1976
ANNUAL RUNOFF (CFSM)	1.09		.80		.98	
ANNUAL RUNOFF (INCHES)	14.85		10.90		13.32	
10 PERCENT EXCEEDS	444		261		386	
50 PERCENT EXCEEDS	97		65		70	
90 PERCENT EXCEEDS	22		21		11	

* See REMARKS.

02090380 CONTENTNEA CREEK NEAR LUCAMA, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
26...	1500	21	57	6.5	18.4	760	8.0	85	16	4.10	1.50	4.0	31
NOV													
16...	1130	27	54	6.5	13.2	762	8.6	82	15	3.80	1.40	4.0	33
DEC													
11...	1145	43	54	6.9	7.2	769	11.4	93	14	3.40	1.40	4.2	35
JAN													
18...	1330	59	55	6.7	5.9	767	--	--	14	3.30	1.40	4.7	37
FEB													
07...	1315	109	56	6.9	8.4	772	12.4	104	14	3.20	1.40	5.0	39
27...	1115	141	58	7.1	11.0	772	11.3	101	14	3.30	1.40	5.1	39
APR													
05...	1415	561	51	6.4	13.1	772	10.6	99	13	3.00	1.30	4.5	39
JUL													
10...	1430	77	55	6.8	29.0	762	6.8	89	16	4.00	1.50	3.8	30

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
26...	.4	2.30	2.9	4.3	<.1	7.2	57	38	--	<.010	.120	.150	.70
NOV													
16...	.4	2.20	3.1	4.3	<.1	7.2	36	37	.130	.010	.140	.141	.63
DEC													
11...	.5	2.30	3.5	4.6	<.1	6.4	49	37	.170	.010	.180	.122	.60
JAN													
18...	.5	2.70	3.8	5.7	<.1	6.4	60	39	--	<.010	.230	.042	.63
FEB													
07...	.6	2.70	4.0	5.9	<.1	6.3	61	40	.220	.010	.230	<.010	--
27...	.6	2.50	3.9	6.0	<.1	5.5	51	39	--	<.010	.180	.014	.77
APR													
05...	.5	2.10	3.4	5.2	<.1	4.8	42	34	--	<.010	.180	.044	.71
JUL													
10...	.4	2.60	2.5	4.1	<.1	4.1	44	35	--	<.010	.030	.040	.76

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT											
26...	.53	.85	.68	.97	.80	.030	<.020	<.010	1100	160	11
NOV											
16...	.54	.77	.68	.91	.82	.040	<.020	<.010	1300	48.0	10
DEC											
11...	.53	.72	.65	.90	.83	.040	.030	<.010	1600	57.0	8.8
JAN											
18...	.44	.67	.48	.90	.71	.040	.020	<.010	1300	56.0	8.0
FEB											
07...	--	.59	.41	.82	.64	.020	.020	<.010	1200	31.0	8.2
27...	.41	.78	.42	.96	.60	.040	<.020	.020	940	12.0	8.0
APR											
05...	.54	.75	.58	.93	.76	.030	<.020	.010	740	21.0	9.5
JUL											
10...	.46	.80	.50	.83	.53	<.020	<.020	<.010	840	143	9.1

02090519 CONTENTNEA CREEK NEAR EVANSDALE, NC

LOCATION.--Lat 35°38'34", long 77°53'25", Wilson County, Hydrologic Unit 03020203, at Secondary Road 1622, 0.3 mi downstream from Hominy Swamp, and 2.8 mi southwest of Evansdale.

DRAINAGE AREA.--265 mi^2

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
15...	1100	55	226	6.7	13.2	764	6.4	60	30	7.80	2.50	27.0	57
JAN													
18...	1430	108	127	6.9	8.7	769	--	--	21	5.20	1.90	14.0	54
FEB													
07...	1200	172	101	6.7	8.2	774	11.4	95	20	5.00	1.80	11.0	49
APR													
05...	1530	1450	60	6.1	13.6	774	9.3	88	15	3.50	1.50	5.2	39
JUL													
10...	1315	180	85	6.4	28.0	762	6.2	79	19	4.70	1.70	8.2	44

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV													
15...	2	12.0	20.0	22.0	.3	6.7	143	130	1.68	.020	1.70	.060	.94
JAN													
18...	1	4.10	11.0	13.0	.2	5.8	93	73	--	<.010	.810	.024	.60
FEB													
07...	1	3.60	8.2	11.0	.1	5.0	76	61	--	<.010	.640	.047	.78
APR													
05...	.6	2.40	4.8	6.1	<.1	4.5	59	38	--	<.010	.270	.016	.71
JUL													
10...	.8	3.00	6.6	7.3	.1	4.7	60	51	--	<.010	.300	.035	.92

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV											
15...	.73	1.0	.79	2.7	2.5	.190	.140	.100	690	62.0	10
JAN											
18...	.48	.62	.50	1.4	1.3	.090	.030	.020	870	58.0	9.1
FEB											
07...	.56	.83	.61	1.5	1.2	.040	<.020	.010	960	56.0	7.5
APR											
05...	.54	.73	.56	1.0	.83	.040	<.020	.020	620	23.0	11
JUL											
10...	.56	.96	.60	1.3	.90	.100	.030	.030	820	89.0	9.0

02090960 NAHUNTA SWAMP NEAR PIKEVILLE, NC

LOCATION.--Lat 35°30'49", long 77°58'53", Wayne County, Hydrologic Unit 03020203, on left downstream side of bridge on U.S. Highway 117, 0.2 mi downstream from Seaboard Coast Railroad and 1.1 mi north of Pikeville.

DRAINAGE AREA.--19.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Partial-record station 1953, 1964-1968. September 2000 to current year.

GAGE.--Water-stage recorder. Datum of gage is 88.48 ft above sea level. Satellite telemetry at station.

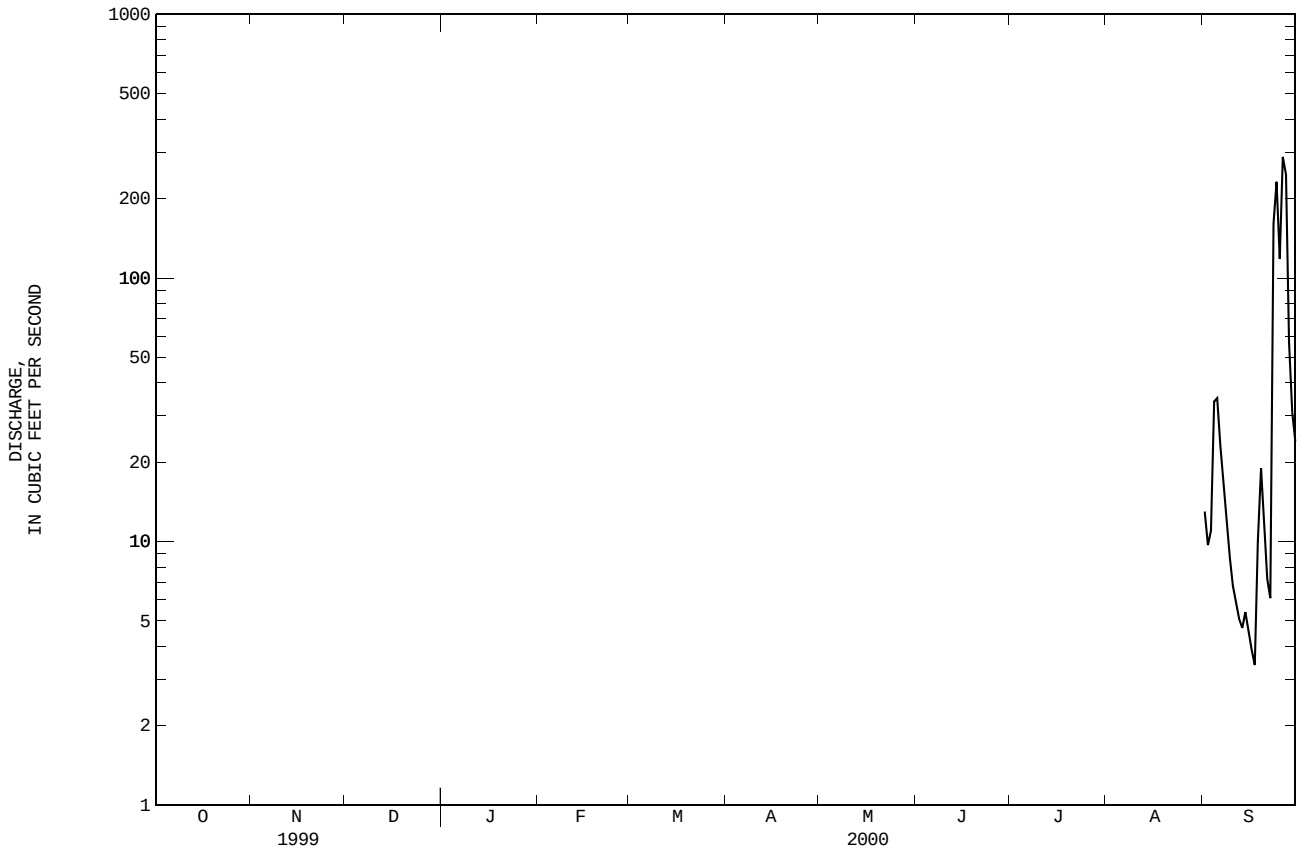
REMARKS.--Records poor.

DISCHARGE, CUBIC FEET PER SECOND, FOR SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	13
2	---	---	---	---	---	---	---	---	---	---	---	9.7
3	---	---	---	---	---	---	---	---	---	---	---	11
4	---	---	---	---	---	---	---	---	---	---	---	34
5	---	---	---	---	---	---	---	---	---	---	---	35
6	---	---	---	---	---	---	---	---	---	---	---	23
7	---	---	---	---	---	---	---	---	---	---	---	17
8	---	---	---	---	---	---	---	---	---	---	---	12
9	---	---	---	---	---	---	---	---	---	---	---	8.7
10	---	---	---	---	---	---	---	---	---	---	---	6.8
11	---	---	---	---	---	---	---	---	---	---	---	5.9
12	---	---	---	---	---	---	---	---	---	---	---	5.1
13	---	---	---	---	---	---	---	---	---	---	---	4.7
14	---	---	---	---	---	---	---	---	---	---	---	5.4
15	---	---	---	---	---	---	---	---	---	---	---	4.6
16	---	---	---	---	---	---	---	---	---	---	---	3.9
17	---	---	---	---	---	---	---	---	---	---	---	3.4
18	---	---	---	---	---	---	---	---	---	---	---	10
19	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	12
21	---	---	---	---	---	---	---	---	---	---	---	7.2
22	---	---	---	---	---	---	---	---	---	---	---	6.1
23	---	---	---	---	---	---	---	---	---	---	---	161
24	---	---	---	---	---	---	---	---	---	---	---	232
25	---	---	---	---	---	---	---	---	---	---	---	118
26	---	---	---	---	---	---	---	---	---	---	---	288
27	---	---	---	---	---	---	---	---	---	---	---	247
28	---	---	---	---	---	---	---	---	---	---	---	57
29	---	---	---	---	---	---	---	---	---	---	---	31
30	---	---	---	---	---	---	---	---	---	---	---	24
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	1415.5
MEAN	---	---	---	---	---	---	---	---	---	---	---	47.2
MAX	---	---	---	---	---	---	---	---	---	---	---	288
MIN	---	---	---	---	---	---	---	---	---	---	---	3.4
CFSM	---	---	---	---	---	---	---	---	---	---	---	2.54
IN.	---	---	---	---	---	---	---	---	---	---	---	2.83

SUMMARY STATISTICS	FOR SEPTEMBER 2000	
MAXIMUM PEAK FLOW	391	Sep 23
MAXIMUM PEAK STAGE	8.71	Sep 23
INSTANTANEOUS LOW FLOW	2.9	Sep 18

02090960 NAHUNTA SWAMP NEAR PIKEVILLE, NC--Continued



02090960 NAHUNTA SWAMP NEAR PIKEVILLE, NC--Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	7.3	6.0	6.0	6.6	11	71	4.9	17	2.2	6.7	8.1
2	17	7.4	5.7	6.0	6.1	9.6	108	4.6	65	2.1	4.3	7.3
3	14	3.9	7.9	5.9	5.7	9.8	51	4.4	21	2.0	3.6	6.5
4	14	2.8	8.2	6.0	5.9	33	36	4.1	10	2.2	3.2	5.3
5	11	3.7	8.9	6.2	14	29	28	3.9	6.9	14	2.7	4.9
6	9.6	3.7	9.2	6.4	13	20	23	3.6	5.3	6.8	2.3	4.2
7	8.9	4.0	8.8	6.2	9.6	15	20	3.6	4.4	4.1	2.2	3.6
8	7.9	4.2	8.5	7.2	8.1	13	18	3.6	3.9	3.5	2.0	3.1
9	8.7	5.2	7.5	8.2	7.7	12	16	3.4	3.7	3.6	2.4	9.8
10	7.5	5.9	6.9	7.4	7.4	10	14	3.4	4.5	3.2	2.7	11
11	6.9	5.3	6.7	8.9	6.7	9.5	13	3.1	3.6	3.1	1.8	9.3
12	6.6	5.4	6.8	7.9	7.7	9.2	12	3.0	3.2	2.6	33	7.1
13	6.0	5.2	5.9	7.6	9.8	11	11	3.5	2.8	2.8	25	5.4
14	5.9	10	9.1	7.6	9.8	10	11	3.5	4.2	2.4	79	4.5
15	5.6	11	9.3	8.8	10	17	9.8	3.1	10	1.9	91	3.8
16	5.1	8.6	8.4	9.2	9.0	24	9.4	5.0	15	1.7	23	3.2
17	5.1	7.0	9.2	9.0	23	16	8.4	5.0	20	1.7	9.5	3.1
18	6.5	5.6	8.0	6.8	21	12	9.3	5.1	11	1.6	7.3	2.8
19	7.1	8.0	7.7	6.3	13	10	8.3	4.7	6.7	2.4	9.6	2.7
20	5.7	15	8.1	9.1	11	18	7.8	4.2	5.0	2.2	10	2.6
21	5.4	8.8	7.7	9.2	14	403	7.7	12	4.2	2.0	28	2.7
22	5.4	e6.2	7.2	7.7	17	203	6.9	7.7	3.6	1.8	16	2.6
23	5.1	e5.4	6.7	7.7	22	62	7.0	5.2	3.3	1.8	8.9	2.7
24	6.6	e5.2	6.5	6.7	19	36	6.3	4.0	3.4	2.8	6.6	8.4
25	8.0	e7.4	6.3	6.2	15	27	8.2	4.0	3.6	3.8	5.4	25
26	5.4	e40	6.0	6.0	16	22	11	59	3.4	3.0	4.4	26
27	5.8	e18	6.5	6.6	13	19	8.3	62	3.3	17	3.7	10
28	5.1	10	6.8	5.8	11	17	7.0	13	3.0	12	3.9	5.8
29	4.4	7.3	6.8	6.1	---	85	6.3	15	2.7	8.3	7.0	4.3
30	4.8	6.4	6.8	6.7	---	133	5.3	12	2.3	22	8.2	3.6
31	6.2	---	6.3	7.0	---	55	---	7.5	---	11	7.1	---
TOTAL	240.3	243.9	230.4	222.4	332.1	1361.1	559.0	281.1	256.0	151.6	420.5	199.4
MEAN	7.75	8.13	7.43	7.17	11.9	43.9	18.6	9.07	8.53	4.89	13.6	6.65
MAX	19	40	9.3	9.2	23	403	108	62	65	22	91	26
MIN	4.4	2.8	5.7	5.8	5.7	9.2	5.3	3.0	2.3	1.6	1.8	2.6
CFSM	.42	.44	.40	.39	.64	2.36	1.00	.49	.46	.26	.73	.36
IN.	.48	.49	.46	.44	.66	2.72	1.12	.56	.51	.30	.84	.40

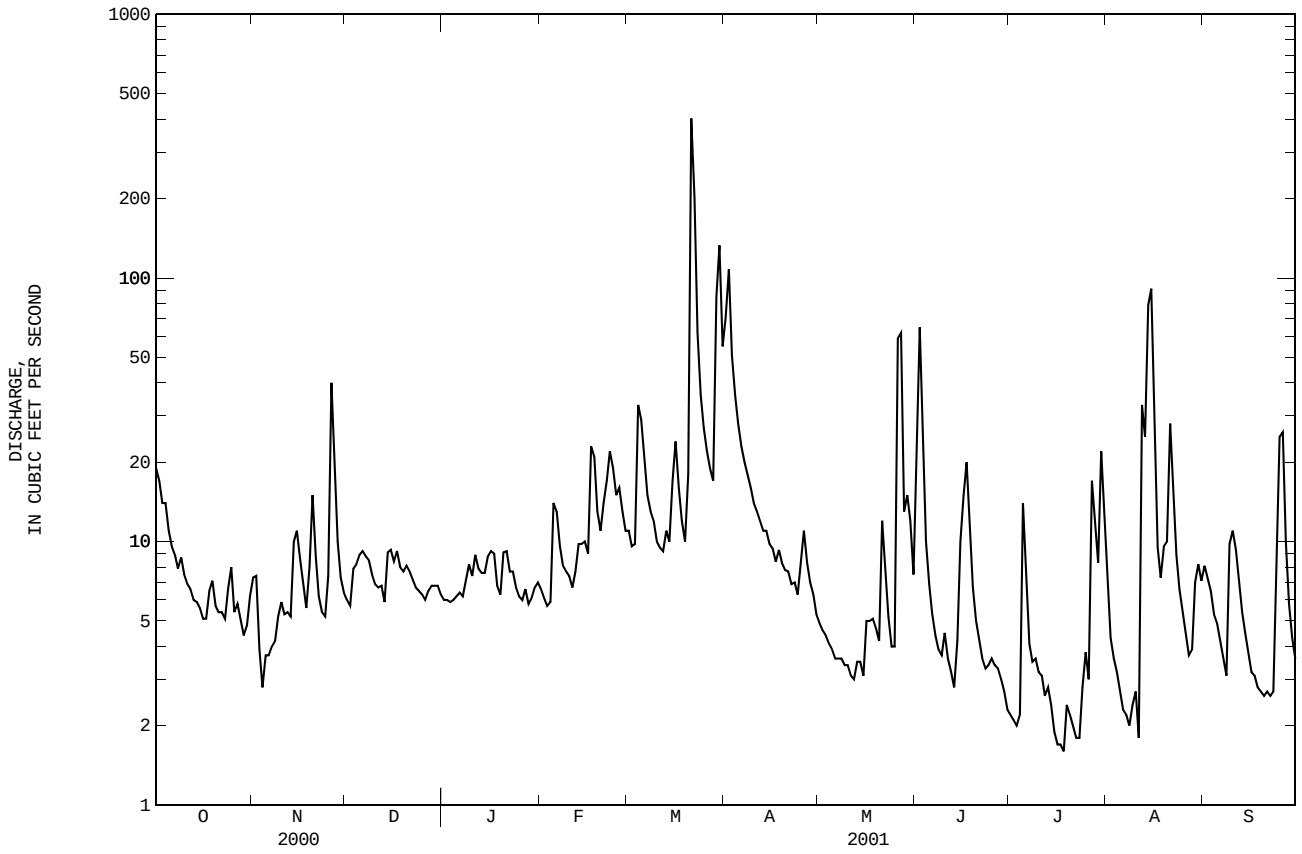
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2001, BY WATER YEAR (WY)

MEAN	7.75	8.13	7.43	7.17	11.9	43.9	18.6	9.07	8.53	4.89	13.6	26.9
MAX	7.75	8.13	7.43	7.17	11.9	43.9	18.6	9.07	8.53	4.89	13.6	47.2
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2000
MIN	7.75	8.13	7.43	7.17	11.9	43.9	18.6	9.07	8.53	4.89	13.6	6.65
(WY)	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 2000 - 2001	
ANNUAL TOTAL	4497.8			
ANNUAL MEAN	12.3		12.3	
HIGHEST ANNUAL MEAN			12.3	2001
LOWEST ANNUAL MEAN			12.3	2001
HIGHEST DAILY MEAN	403	Mar 21	403	Mar 21 2001
LOWEST DAILY MEAN	1.6	Jul 18	1.6	Jul 18 2001
ANNUAL SEVEN-DAY MINIMUM	1.9	Jul 16	1.9	Jul 16 2001
MAXIMUM PEAK FLOW	473	Mar 21	473	Mar 21 2001
MAXIMUM PEAK STAGE	9.31	Mar 21	9.31	Mar 21 2001
INSTANTANEOUS LOW FLOW	1.4	Jul 18	1.4	Jul 18 2001
ANNUAL RUNOFF (CFSM)	.66		.66	
ANNUAL RUNOFF (INCHES)	9.00		9.00	
10 PERCENT EXCEEDS	20		23	
50 PERCENT EXCEEDS	7.0		7.1	
90 PERCENT EXCEEDS	3.0		3.1	

e Estimated.

02090960 NAHUNTA SWAMP NEAR PIKEVILLE, NC--Continued



PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
16...	0815	8.1	119	6.2	8.9	766	6.8	58	31	7.50	2.90	6.3	25
JAN													
19...	1015	6.3	102	6.7	9.1	764	--	--	29	7.60	2.40	5.8	28
FEB													
08...	0845	8.1	95	6.3	7.6	777	10.1	83	27	7.10	2.30	6.1	30
APR													
06...	0900	24	94	5.9	12.3	772	8.3	77	26	6.40	2.50	5.1	27
JUL													
12...	1345	2.7	100	6.3	27.0	765	3.5	43	32	8.50	2.60	5.7	26

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV													
16...	.5	7.60	3.9	17.0	<.1	7.2	72	69	.590	.010	.600	.038	.88
JAN													
19...	.5	3.40	4.6	13.0	<.1	6.0	73	59	.990	.010	1.00	.034	.47
FEB													
08...	.5	3.30	5.1	13.0	<.1	6.7	93	58	--	<.010	1.00	.020	.57
APR													
06...	.4	3.30	6.5	11.0	<.1	5.6	77	56	--	<.010	1.80	.050	.60
JUL													
12...	.4	2.60	2.4	11.0	.1	4.9	68	55	--	<.010	.180	.036	.56

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV											
16...	.28	.92	.32	1.5	.92	.050	<.020	<.010	610	26.0	--
JAN											
19...	.27	.50	.30	1.5	1.3	.030	<.020	<.010	490	40.0	6.4
FEB											
08...	.36	.59	.38	1.6	1.4	<.020	<.020	.020	570	25.0	7.1
APR											
06...	.46	.65	.51	2.5	2.3	.020	<.020	.010	500	35.0	9.5
JUL											
12...	.44	.60	.48	.78	.66	.060	.020	<.010	670	58.0	8.8

0209096970 MOCCASIN RUN NEAR PATETOWN, NC

LOCATION.--Lat 35°28'46", long 77°54'37", Wayne County, Hydrologic Unit 03020203, at Secondary Road 1523, 1.5 mi northeast of Patetown.

DRAINAGE AREA.--1.89 mi^2

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
26...	1345	E.36	71	5.8	13.9	762	2.3	23	18	4.20	1.80	4.8	31
NOV													
16...	0930	1.4	72	5.7	7.5	766	4.3	35	16	3.50	1.70	5.2	35
DEC													
11...	1330	--	74	5.9	6.5	769	6.7	54	14	3.10	1.40	5.0	37
JAN													
19...	0930	1.0	72	5.8	9.3	764	--	--	16	3.70	1.70	5.3	36
FEB													
08...	0930	.80	66	5.6	7.5	778	8.9	72	15	3.50	1.50	5.7	40
27...	1535	1.7	62	6.0	14.4	770	7.0	68	13	3.00	1.40	5.3	41
APR													
06...	0830	E1.9	60	5.3	13.0	772	6.3	59	16	3.60	1.60	3.9	30
JUL													
10...	1515	.66	69	5.6	27.6	760	.8	10	21	5.50	1.80	4.6	31

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
OCT													
26...	.5	4.10	.9	10.0	<.1	2.3	60	39	<.010	<.020	.040	.72	.50
NOV													
16...	.6	4.40	1.0	13.0	<.1	1.5	43	38	<.010	<.020	.060	.46	.38
DEC													
11...	.6	4.20	1.7	12.0	<.1	2.3	47	38	<.010	.060	.024	.40	.28
JAN													
19...	.6	3.40	1.8	12.0	<.1	.7	49	37	<.010	.040	.040	.70	.28
FEB													
08...	.6	3.00	1.4	11.0	<.1	.5	64	36	<.010	.030	.014	.90	.54
27...	.6	2.40	1.4	9.9	<.1	1.4	49	33	<.010	.070	.116	.61	.40
APR													
06...	.4	3.00	3.5	7.8	<.1	3.1	53	35	<.010	.230	.058	.63	.50
JUL													
10...	.4	1.30	.4	9.1	<.1	2.5	52	38	<.010	<.020	.072	.86	.52

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT										
26...	.76	.54	--	--	.100	.030	.030	1300	74.0	10
NOV										
16...	.52	.44	--	--	.050	.020	<.010	840	30.0	7.3
DEC										
11...	.42	.30	.48	.36	<.020	<.020	<.010	440	8.5	5.8
JAN										
19...	.74	.32	.78	.36	.040	<.020	<.010	710	32.0	5.8
FEB										
08...	.91	.55	.94	.58	.070	<.020	.010	750	28.0	6.8
27...	.73	.52	.80	.59	.040	<.020	.020	780	26.0	8.0
APR										
06...	.69	.56	.92	.79	.030	<.020	<.010	830	20.0	12
JUL										
10...	.93	.59	--	--	.070	<.020	.010	1000	110	9.3

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.

WATER-DISCHARGE RECORDS

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 sea level. Prior to Apr. 1, 1955, nonrecording gage at same site and datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	20	32	27	28	47	230	16	53	13	28	36
2	57	21	30	27	27	42	392	15	310	12	20	48
3	49	19	37	26	25	41	224	13	126	11	15	33
4	48	17	44	26	25	119	150	12	66	14	13	28
5	44	18	45	26	50	129	116	11	45	56	12	25
6	41	19	45	33	50	94	96	11	35	32	10	22
7	36	18	44	28	39	71	85	10	33	20	9.7	18
8	32	18	45	27	33	59	75	10	27	15	8.7	16
9	30	19	41	31	31	54	66	9.5	25	17	8.2	18
10	28	21	37	31	31	49	61	9.5	23	15	7.9	30
11	27	21	36	28	29	47	52	8.8	20	13	12	44
12	26	19	35	30	31	44	49	8.1	18	15	253	31
13	25	21	32	31	39	46	46	8.4	16	11	131	23
14	24	23	37	29	39	42	46	8.4	21	12	278	20
15	22	35	41	33	39	47	41	8.2	118	10	164	17
16	21	27	37	36	37	70	39	9.9	130	8.8	93	15
17	21	26	42	32	83	54	36	12	233	8.1	50	14
18	22	25	46	30	90	43	39	14	89	7.8	44	13
19	24	27	40	28	57	37	35	12	58	8.0	65	12
20	22	59	38	33	45	35	31	13	41	8.9	48	11
21	20	42	37	40	44	482	28	34	33	8.4	66	11
22	20	31	38	33	70	802	26	25	27	7.7	56	11
23	19	27	32	30	115	464	24	15	27	7.6	39	11
24	20	27	30	29	76	187	23	11	24	8.1	30	16
25	22	38	31	28	64	139	24	19	24	10	26	77
26	21	160	31	26	66	108	37	110	22	11	22	57
27	21	89	30	26	55	83	28	292	20	42	19	37
28	20	51	37	25	49	70	22	106	18	58	23	24
29	18	39	30	24	---	161	19	94	16	32	46	19
30	18	36	30	28	---	524	17	73	14	70	38	17
31	19	---	28	31	---	264	---	49	---	45	32	---
TOTAL	884	1013	1138	912	1367	4454	2157	1047.8	1712	607.4	1667.5	754
MEAN	28.5	33.8	36.7	29.4	48.8	144	71.9	33.8	57.1	19.6	53.8	25.1
MAX	67	160	46	40	115	802	392	292	310	70	278	77
MIN	18	17	28	24	25	35	17	8.1	14	7.6	7.9	11
CFSM	.35	.42	.46	.37	.61	1.79	.89	.42	.71	.24	.67	.31
IN.	.41	.47	.53	.42	.63	2.06	1.00	.48	.79	.28	.77	.35

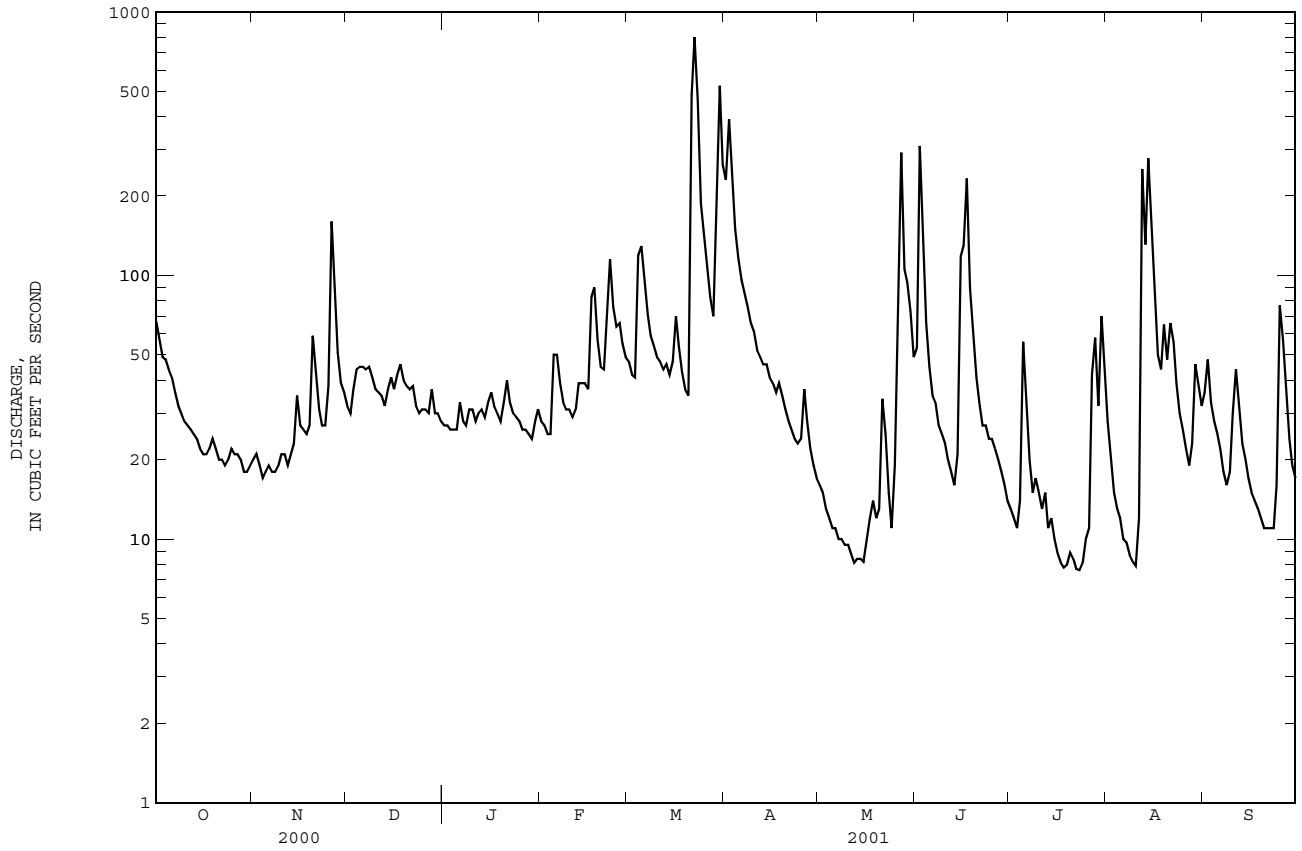
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2001, BY WATER YEAR (WY)

MEAN	54.9	55.8	69.5	120	142	145	102	58.9	52.5	58.2	68.5	82.7
MAX	473	253	184	261	327	311	252	277	243	395	360	1083
(WY)	1965	1978	1958	1993	1998	1983	1974	1989	1995	1965	1974	1999
MIN	2.26	11.2	19.7	29.4	34.6	33.7	19.1	10.8	5.35	3.10	4.71	2.58
(WY)	1955	1987	1995	2001	1988	1986	1986	1986	1986	1987	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1954 - 2001	
ANNUAL TOTAL	23812		17713.7			
ANNUAL MEAN	65.1		48.5		84.9	
HIGHEST ANNUAL MEAN					150	1965
LOWEST ANNUAL MEAN					22.9	1986
HIGHEST DAILY MEAN	561	Jan 31	802	Mar 22	7000	Sep 17 1999
LOWEST DAILY MEAN	10	Jun 13	7.6	Jul 23	1.0	Oct 7 1954
ANNUAL SEVEN-DAY MINIMUM	12	Jun 9	8.1	Jul 17	1.3	Oct 4 1954
MAXIMUM PEAK FLOW			905	Mar 22	23000*	Sep 17 1999
MAXIMUM PEAK STAGE			9.02	Mar 22	21.00*	Sep 17 1999
INSTANTANEOUS LOW FLOW			7.3	Aug 10	1.0*	Oct 7 1954
ANNUAL RUNOFF (CFSM)	.81		.60		1.06	
ANNUAL RUNOFF (INCHES)	11.02		8.20		14.35	
10 PERCENT EXCEEDS	140		89		175	
50 PERCENT EXCEEDS	37		30		43	
90 PERCENT EXCEEDS	14		12		10	

* See REMARKS.

02091000 NAHUNTA SWAMP NEAR SHINE, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
26...	1245	20	99	6.6	14.8	764	9.6	95	26	6.50	2.40	6.2	30
NOV													
16...	1015	27	106	6.4	8.6	766	8.9	76	27	6.60	2.60	6.6	29
DEC													
11...	1400	35	105	6.4	7.6	769	10.4	86	26	6.50	2.40	6.0	29
JAN													
19...	0845	27	97	6.4	9.2	764	--	--	26	6.70	2.20	6.0	30
FEB													
08...	0815	33	92	6.4	6.9	778	10.9	87	25	6.60	2.10	6.1	31
28...	1315	49	93	6.3	11.2	767	9.4	85	24	6.10	2.10	5.5	30
APR													
06...	0800	97	91	6.0	12.3	773	8.9	82	24	5.90	2.30	5.1	28
JUL													
12...	1305	15	89	6.4	25.9	765	7.8	95	25	6.20	2.30	5.7	30

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
26...	.5	4.10	4.5	13.0	<.1	7.3	70	58	--	<.010	.800	.050	.42
NOV													
16...	.6	6.00	3.8	15.0	<.1	7.6	72	63	.510	.010	.520	.060	.33
DEC													
11...	.5	4.20	6.9	14.0	.1	9.1	72	63	.980	.010	.990	.080	.38
JAN													
19...	.5	3.40	5.8	12.0	<.1	6.8	65	58	.900	.020	.920	.085	.41
FEB													
08...	.5	3.10	5.7	12.0	<.1	6.6	82	57	.920	.010	.930	.052	.44
28...	.5	2.90	6.8	12.0	<.1	7.6	70	56	.980	.020	1.00	.141	.64
APR													
06...	.5	3.30	7.6	11.0	.1	7.5	75	56	--	<.010	1.50	.116	.49
JUL													
12...	.5	2.80	4.1	11.0	.1	6.6	57	53	--	<.010	.750	.048	.57

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT											
26...	.37	.47	.42	1.3	1.2	.060	.040	.030	490	14.0	6.5
NOV											
16...	.23	.39	.29	.91	.81	.070	.040	.020	800	13.0	8.1
DEC											
11...	.27	.46	.35	1.4	1.3	<.020	<.020	.030	440	37.0	4.3
JAN											
19...	.30	.50	.39	1.4	1.3	.070	.030	<.010	500	37.0	5.4
FEB											
08...	.27	.49	.32	1.4	1.2	.030	<.020	.020	550	35.0	6.4
28...	.43	.78	.57	1.8	1.6	.060	<.020	.030	720	46.0	8.1
APR											
06...	.39	.61	.51	2.1	2.0	.060	<.020	.020	480	40.0	8.3
JUL											
12...	.47	.62	.52	1.4	1.3	.120	.070	.050	680	19.0	7.9

Gaging station at New Hope Creek near Blands, North Carolina.

02091500 CONTENTNEA CREEK AT HOOKERTON, NC

LOCATION.--Lat 35°25'44", long 77°34'59", 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 sea level (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.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1610	171	699	403	360	709	2090	505	509	306	806	266
2	1860	171	664	392	361	671	2110	431	651	276	744	327
3	2010	171	594	385	360	622	2450	363	786	243	580	375
4	2020	170	544	381	359	617	2900	313	850	216	429	314
5	1900	170	519	366	376	684	3140	275	822	217	339	278
6	1650	169	519	354	417	774	3260	241	771	316	268	248
7	1200	167	534	350	456	856	3320	216	710	471	218	224
8	815	165	544	345	474	938	3280	198	603	527	182	203
9	543	164	536	343	474	1010	3130	183	468	558	156	190
10	434	164	508	347	467	1070	2800	166	365	580	133	193
11	374	162	483	358	449	1060	2320	153	297	531	116	210
12	342	163	473	368	425	936	1820	146	247	430	115	281
13	323	164	454	381	410	760	1330	150	209	336	361	292
14	314	176	435	386	407	630	994	137	320	271	717	263
15	299	212	426	379	409	577	772	124	1020	223	930	259
16	272	234	441	375	420	577	680	119	1220	188	1060	266
17	247	252	460	374	465	610	592	119	1190	160	1160	251
18	238	252	461	373	548	660	531	121	1340	141	1260	221
19	231	257	477	363	630	682	496	130	1530	148	1380	192
20	234	294	525	366	684	679	475	142	1620	127	1360	171
21	228	324	625	381	710	1010	450	168	1680	113	1230	158
22	207	356	737	396	736	1240	418	191	1750	103	937	140
23	192	362	805	418	797	1480	376	214	1830	102	680	131
24	188	360	803	446	825	1870	340	208	1920	94	510	128
25	192	372	726	482	821	2380	319	198	1740	91	390	155
26	193	420	629	492	802	2850	319	218	1170	89	340	247
27	192	524	550	476	770	3130	379	394	768	114	303	398
28	188	603	494	446	739	3170	473	567	545	158	275	400
29	182	643	460	412	---	3000	529	594	389	333	261	349
30	177	683	436	383	---	2690	545	550	332	886	277	314
31	173	---	416	372	---	2300	---	531	---	865	281	---
TOTAL	19028	8495	16977	12093	15151	40242	42638	8065	27652	9213	17798	7444
MEAN	614	283	548	390	541	1298	1421	260	922	297	574	248
MAX	2020	683	805	492	825	3170	3320	594	1920	886	1380	400
MIN	173	162	416	343	359	577	319	119	209	89	115	128
CFSM	.84	.39	.75	.53	.74	1.77	1.94	.35	1.26	.41	.78	.34
IN.	.97	.43	.86	.61	.77	2.04	2.16	.41	1.40	.47	.90	.38

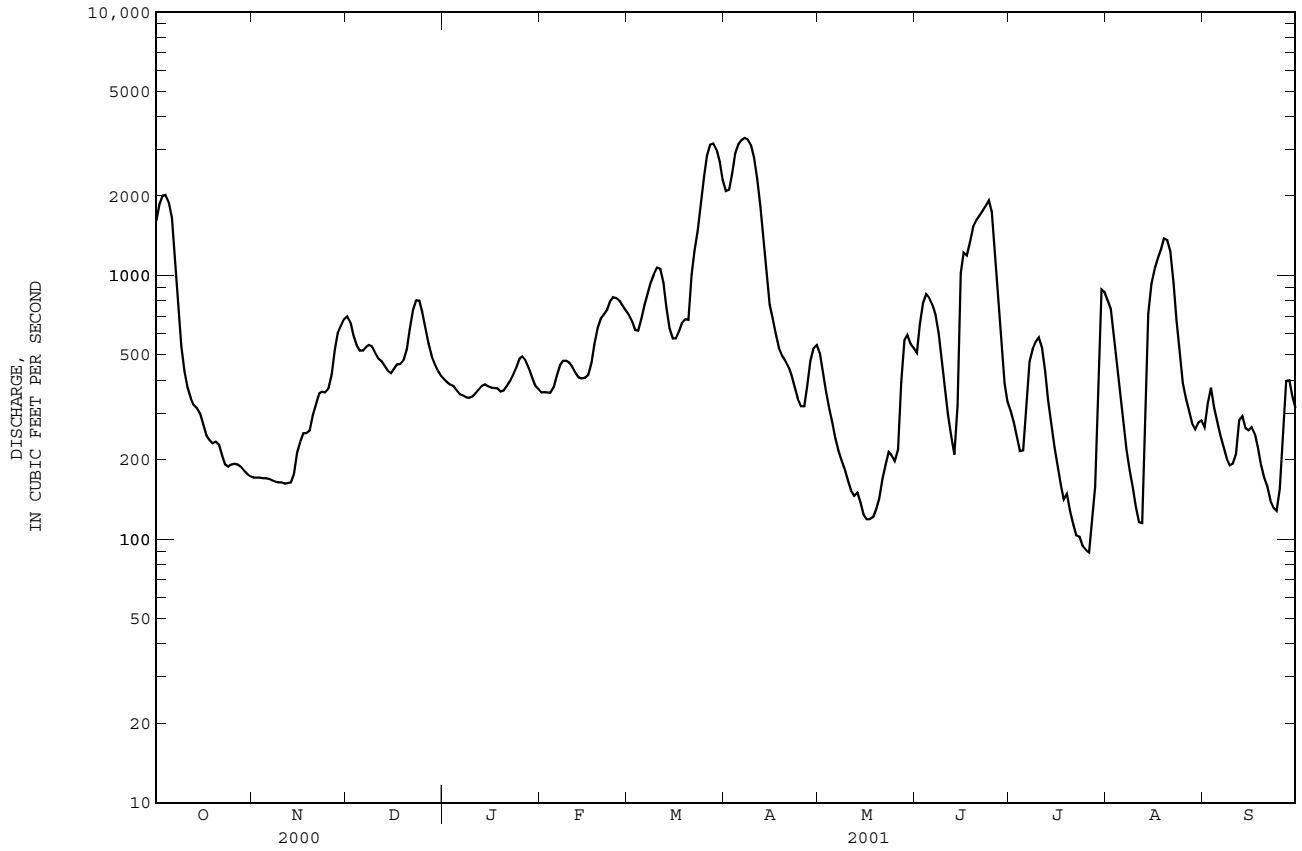
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2001, BY WATER YEAR (WY)

MEAN	513	463	679	1126	1390	1448	1029	580	462	547	626	634
MAX	4798	2150	2349	2626	4316	3491	2752	3363	1770	2203	2422	8825
(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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1929 - 2001	
ANNUAL TOTAL	280829		224796			
ANNUAL MEAN	767		616		779	
HIGHEST ANNUAL MEAN					1422	1960
LOWEST ANNUAL MEAN					242	1951
HIGHEST DAILY MEAN	3500	Feb 1	3320	Apr 7	31500	Sep 19 1999
LOWEST DAILY MEAN	141	Jun 28	89	Jul 26	15	Oct 28 1933
ANNUAL SEVEN-DAY MINIMUM	163	Jun 26	101	Jul 21	16	Oct 8 1954
MAXIMUM PEAK FLOW			3360	Apr 7	31900	Sep 18 1999
MAXIMUM PEAK STAGE			13.43	Apr 7	28.28*	Sep 18 1999
INSTANTANEOUS LOW FLOW			88	Jul 26	15	Oct 28 1933
ANNUAL RUNOFF (CFSM)	1.05		.84		1.06	
ANNUAL RUNOFF (INCHES)	14.25		11.41		14.43	
10 PERCENT EXCEEDS	1830		1350		1920	
50 PERCENT EXCEEDS	544		409		447	
90 PERCENT EXCEEDS	179		165		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.

WATER TEMPERATURE: October 1949 to September 1950, March 1979 to September 1984.

INSTRUMENTATION.--Water-quality monitor from October 1981 to September 1984.

REMARKS.--Station operated as part of NAWQA Program from March 1993 to present. 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.--

SPECIFIC CONDUCTANCE: Maximum, 218 microsiemens, Nov. 1, 10, 1983; minimum daily, 41 microsiemens, June 11, 1979.

WATER TEMPERATURE: Maximum, 29.5°C, Aug. 23, 1983; minimum daily, 1.0°C, Jan. 13, 14, 1981, Jan. 18, 1982.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM AD-SORP-TION RATIO (00931)
OCT													
17...	1400	244	761	6.5	66	7.0	105	16.3	24	5.81	2.27	3.66	.8
NOV													
06...	1410	169	762	--	--	7.2	128	--	26	6.37	2.47	4.21	1
DEC													
07...	1400	535	767	13.0	100	7.2	102	4.4	23	5.36	2.25	5.42	.7
JAN													
24...	1430	448	762	10.2	84	6.7	105	7.0	23	5.60	2.24	3.91	.8
FEB													
21...	1400	711	766	6.0	54	6.8	98	11.0	21	5.16	2.02	4.12	.7
MAR													
27...	1300	3170	771	6.7	61	6.4	67	11.5	15	3.49	1.52	3.52	.5
APR													
19...	1300	494	--	--	--	7.1	98	15.5	23	5.47	2.38	3.28	.6
MAY													
21...	1300	169	761	3.7	44	6.9	126	23.5	25	5.98	2.51	3.68	1.0
JUN													
22...	1320	1760	760	3.4	42	6.0	73	26.0	19	4.52	1.82	3.04	.5
JUL													
30...	1245	851	763	4.9	58	6.6	114	23.5	20	4.54	2.08	4.31	1
AUG													
29...	1300	262	763	2.6	32	6.6	97	25.5	23	5.13	2.37	3.14	.8
SEP													
19...	1230	190	765	3.3	36	7.6	100	21.0	22	5.14	2.15	3.29	.8

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
OCT													
17...	8.8	40	17	21	10.9	E.1	8.3	7.7	53.4	81	62	.054	.44
NOV													
06...	12.4	46	20	24	15.7	.2	6.4	11.1	40.2	88	74	E.026	.36
DEC													
07...	7.6	36	14	17	12.8	E.1	6.6	7.2	107	74	59	E.034	.41
JAN													
24...	8.6	40	16	20	13.4	E.1	3.8	7.4	83.5	69	58	E.030	.45
FEB													
21...	7.7	39	13	16	11.6	E.1	3.8	7.8	138	72	53	E.022	.46
MAR													
27...	4.8	35	7	8	7.8	E.1	4.0	5.9	676	79	37	<.041	.48
APR													
19...	6.6	34	16	19	10.7	E.1	5.0	6.8	107	80	54	<.041	.66
MAY													
21...	11.2	45	16	20	12.7	.2	4.7	11.0	39.2	86	66	.065	.48
JUN													
22...	4.5	30	12	14	7.0	E.1	4.7	5.0	276	58	39	E.034	.62
JUL													
30...	11.5	50	12	15	12.3	E.2	4.7	10.2	227	99	60	<.040	.56
AUG													
29...	8.2	40	15	18	9.5	E.2	8.0	7.5	53.8	76	54	E.039	.51
SEP													
19...	8.6	42	18	22	10.9	E.1	6.5	6.8	35.9	70	57	E.036	.47

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN DISSOLVED (MG/L AS N) (00602)	NITROGEN, NITRATE DISSOLVED (MG/L AS N) (00618)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, NITRITE DISSOLVED (MG/L AS NO2) (71856)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN,PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)
OCT													
17...	.47	1.2	--	.747	--	E.005	--	1.2	.150	.054	.049	.129	--
NOV													
06...	.49	1.0	--	.652	--	E.003	--	1.1	.077	.033	.025	.102	--
DEC													
07...	.55	1.0	.612	.618	.020	.006	--	1.2	.083	.034	.027	.068	--
JAN													
24...	.53	1.0	.585	.591	.020	.006	--	1.1	.064	.040	.021	.078	--
FEB													
21...	.52	.93	.461	.471	.033	.010	.216	.99	.064	.040	.021	.109	1.6
MAR													
27...	.66	.72	--	.246	--	<.006	.151	.91	.064	.042	.021	.102	1.0
APR													
19...	.72	1.3	.638	.651	.043	.013	.068	1.4	.144	.093	.047	.129	.7
MAY													
21...	.60	1.2	.700	.708	.026	.008	.055	1.3	.089	.056	.029	.150	.6
JUN													
22...	.69	.80	.172	.181	.030	.009	.101	.87	.147	.073	.048	.136	1.1
JUL													
30...	.75	1.1	.511	.524	.043	.013	.259	1.3	.199	.105	.065	.255	2.6
AUG													
29...	.70	--	--	E.415	--	E.006	.162	--	--	.069	E.044	.160	1.3
SEP													
19...	.55	.93	.459	.465	.020	.006	.023	1.0	.138	.067	.045	.130	.4

DATE	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	2,6-DIETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	ACETOCHLOR, WATER FLTRD REC (UG/L) (49260)	ALACHLOR, WATER, DISS, REC, (UG/L) (46342)	ALPHA BHC DISSOLVED (UG/L) (34253)	ATRAZINE, WATER, DISS, REC (UG/L) (39632)	BENFLURALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYLATE, WATER, DISS, REC (UG/L) (04028)	CARBARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBOFURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)
OCT													
17...	8.3	.6	960	49.5	<.002	<.004	<.005	<.005	E.004	<.010	<.002	<.041	<.100
NOV													
06...	7.3	.3	480	25.8	<.002	<.004	<.002	<.005	M	<.010	<.002	<.041	<.020
DEC													
07...	8.0	.5	650	16.2	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020
JAN													
24...	7.1	.6	750	16.1	<.002	<.004	<.002	<.005	<.007	<.010	<.002	<.041	<.020
FEB													
21...	7.8	--	860	20.5	<.002	<.004	<.002	<.005	.200	<.010	<.002	E.022	<.020
MAR													
27...	11	--	600	22.4	<.002	<.004	<.002	<.005	.113	<.010	<.002	E.013	<.020
APR													
19...	9.9	--	1670	73.2	<.002	<.004	.008	<.005	.022	<.010	<.002	E.004	<.020
MAY													
21...	7.0	--	660	55.7	<.002	<.004	<.004	<.005	.018	<.010	<.002	<.041	<.020
JUN													
22...	11	--	780	38.0	<.002	<.004	.010	<.005	.123	<.010	<.002	E.003	<.020
JUL													
30...	11	--	420	31.6	<.002	<.004	<.002	<.005	.011	<.010	<.002	<.041	<.020
AUG													
29...	10	--	1050	114	<.002	<.004	<.002	<.005	.008	<.010	<.002	E.003	<.020
SEP													
19...	7.7	--	560	51.8	<.002	<.004	<.002	<.005	.007	<.010	<.002	<.041	<.020

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)
OCT													
17...	<.005	<.018	<.003	<.006	E.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
NOV													
06...	<.005	<.018	<.003	<.006	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
DEC													
07...	<.005	<.018	<.003	<.006	E.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
JAN													
24...	<.005	<.018	<.003	<.006	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
FEB													
21...	<.005	<.018	<.003	E.005	.006	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
MAR													
27...	<.005	<.018	<.003	E.004	.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
APR													
19...	<.005	<.018	<.003	E.003	E.004	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
MAY													
21...	<.005	<.018	<.003	<.006	<.005	<.005	<.021	.009	<.009	<.005	<.003	<.004	<.035
JUN													
22...	E.003	<.018	<.003	E.004	E.004	<.005	<.021	E.001	<.009	<.005	<.003	<.004	<.035
JUL													
30...	<.005	<.018	<.003	<.006	<.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
AUG													
29...	<.005	<.018	<.003	<.006	.005	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035
SEP													
19...	<.005	<.018	<.003	<.006	.008	<.005	<.021	<.002	<.009	<.005	<.003	<.004	<.035

DATE	MALA-THION, DIS-SOLVED (UG/L) (39532)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	P,P' DDE DISSOLV (UG/L) (34653)	PARA-THION, DIS-SOLVED (UG/L) (39542)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)
OCT													
17...	<.027	<.050	<.006	E.009	<.006	--	<.007	<.003	<.007	<.002	<.010	<.006	<.011
NOV													
06...	<.027	<.050	<.006	E.005	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
DEC													
07...	<.027	<.050	<.006	E.008	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
JAN													
24...	<.027	<.050	<.006	E.009	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
FEB													
21...	<.027	<.050	<.006	.018	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
MAR													
27...	<.027	<.050	<.006	E.012	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
APR													
19...	<.027	<.050	<.006	.022	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
MAY													
21...	<.027	<.050	<.006	.016	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
JUN													
22...	<.027	<.050	<.006	.184	<.006	<.002	E.004	<.003	<.007	<.002	<.010	<.006	<.011
JUL													
30...	<.027	<.050	<.006	.022	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
AUG													
29...	<.027	<.050	<.006	.018	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011
SEP													
19...	<.027	<.050	<.006	.015	<.006	<.002	<.007	<.003	<.007	<.002	<.010	<.006	<.011

02091500 CONTENTNEA CREEK AT HOOKERTON, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT													
17...	.021	<.004	<.010	<.011	<.023	E.003	.025	<.034	<.017	<.005	<.002	<.009	61
NOV													
06...	E.011	<.004	<.010	<.011	<.023	<.011	E.009	<.034	<.017	<.005	<.002	<.009	45
DEC													
07...	E.013	<.004	<.010	<.011	<.023	E.002	E.005	<.034	<.017	<.005	<.002	<.009	92
JAN													
24...	E.010	<.004	<.010	<.011	<.023	E.006	<.016	<.034	<.017	<.005	<.002	<.009	77
FEB													
21...	E.013	<.004	<.010	<.011	<.023	.239	E.012	<.034	<.017	<.005	<.002	<.009	91
MAR													
27...	E.005	<.004	<.010	<.011	<.023	.079	<.016	<.034	<.017	<.005	<.002	<.009	73
APR													
19...	E.012	<.004	<.010	<.011	<.023	.048	E.006	<.034	<.017	<.005	<.002	<.009	86
MAY													
21...	E.013	<.004	<.010	<.011	<.023	.018	E.015	<.034	<.017	<.005	<.002	<.009	82
JUN													
22...	.028	<.004	<.010	<.011	<.023	.029	E.009	<.034	<.017	<.005	<.002	<.009	79
JUL													
30...	.025	<.004	<.010	<.011	<.023	E.004	E.008	<.034	<.017	<.005	<.002	<.009	66
AUG													
29...	.029	<.004	<.010	<.011	<.023	E.006	E.009	<.034	<.017	<.005	<.002	<.009	71
SEP													
19...	.037	<.004	<.010	<.011	<.023	E.008	E.009	<.034	<.017	<.005	<.002	<.009	83

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT		
17...	10	6.6
NOV		
06...	11	5.0
DEC		
07...	4	5.8
JAN		
24...	10	12
FEB		
21...	20	38
MAR		
27...	27	231
APR		
19...	11	15
MAY		
21...	11	5.0
JUN		
22...	17	81
JUL		
30...	52	119
AUG		
29...	17	12
SEP		
19...	17	8.7

02091700 LITTLE CONTENTNEA CREEK NEAR FARMVILLE, NC

LOCATION.--Lat 35°32'40", long 77°30'41", Pitt County, Hydrologic Unit 03020203, at bridge on U.S. Highway 264, 1.5 mi above Middle Swamp and 5.5 mi southeast of Farmville.

DRAINAGE AREA.--93.3 mi^2

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
15...	1530	5.9	175	6.5	10.8	764	3.9	35	34	9.30	2.70	19.0	48
JAN													
18...	1200	25	158	6.6	8.8	771	--	--	32	8.80	2.50	15.0	45
FEB													
06...	1545	43	145	6.7	8.4	769	10	84	29	8.10	2.20	15.0	47
APR													
05...	1015	216	98	6.1	10.7	777	7.6	67	25	6.80	2.00	7.2	35
JUL													
10...	1130	52	93	6.2	25.6	763	3.9	48	27	7.80	1.90	6.3	30

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
NOV													
15...	1	8.40	3.2	21.0	.1	4.8	117	100	<.010	<.020	.022	.77	.76
JAN													
18...	1	6.10	8.1	20.0	.1	--	106	82	<.010	<.020	.018	.58	.41
FEB													
06...	1	5.40	7.8	18.0	.1	--	105	77	<.010	.070	<.010	--	--
APR													
05...	.6	3.50	8.3	13.0	.1	2.8	80	54	<.010	.290	<.010	--	--
JUL													
10...	.5	3.20	4.5	9.2	.1	5.7	76	55	<.010	.150	.071	.92	.75

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV										
15...	.79	.78	--	--	.280	.170	.160	1800	64.0	13
JAN										
18...	.60	.43	--	--	.100	.060	.050	450	30.0	8.7
FEB										
06...	.61	.52	.68	.59	.120	.050	.070	700	22.0	8.6
APR										
05...	.63	.57	.92	.86	.080	.050	.060	520	14.0	11
JUL										
10...	.99	.82	1.1	.97	.330	.190	.190	1100	76.0	12

353343077354901 TILE DRAIN (MS1-T1) AT DITCH TO MIDDLE SWAMP NEAR MARLBORO, NC

LOCATION.--Lat 35°33'42.7", long 77°35'48.9", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.3 mi east of U.S. Highway 258 and 1.3 mi south of Marlboro.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)
SEP 2000													
27...	1140	21.4	4.6	52	4.0	202	21.8	49	12.0	4.50	8.80	3.2	<1
MAR 2001													
05...	1010	5.1	10.1	91	4.2	218	10.0	60	15.0	5.50	5.70	4.4	--
APR													
02...	1045	15.1	9.1	82	4.3	225	11.1	63	16.0	5.50	6.60	3.9	--
JUN													
14...	1155	10.1	7.3	82	4.1	249	20.9	62	15.0	6.00	8.70	3.8	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
SEP 2000													
27...	22.0	8.9	<.010	.52	.52	9.36	9.40	.040	9.9	<.020	<.010	<.020	2.7
MAR 2001													
05...	24.0	7.1	<.010	.30	.25	--	12.0	<.010	12	<.020	<.010	<.020	3.9
APR													
02...	21.0	8.0	<.010	.23	.30	--	13.0	<.010	13	<.020	<.010	<.020	1.9
JUN													
14...	24.0	6.1	<.010	.33	.30	--	15.0	<.010	15	<.020	<.010	<.020	2.1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000		
27...	50	16.0
MAR 2001		
05...	M	20.0
APR		
02...	M	20.0
JUN		
14...	M	20.0

0209171225 DRAINAGE DITCH (MS1-D1) TO MIDDLE SWAMP NEAR MARLBORO, NC

LOCATION.--Lat 35°33'42.7", long 77°35'47.4", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.3 mi east of U.S. Highway 258 and 1.3 mi south of Marlboro.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
27...	1110	211	4.5	49	5.0	142	19.5	25	33	8.10	3.10	4.90	7.8
DEC													
11...	1000	E.54	7.0	57	5.7	236	6.8	29	37	9.50	3.30	3.90	26.0
FEB 2001													
05...	1455	E3.7	5.3	47	6.2	148	9.8	--	13	3.40	1.10	3.50	22.0
26...	0950	10.9	4.8	45	5.9	166	12.5	10	28	7.70	2.10	2.60	18.0
MAR													
05...	1000	50.7	7.5	67	5.8	160	9.9	13	29	7.80	2.20	2.60	17.0
APR													
02...	1000	152	7.4	65	5.6	122	10.0	10	22	6.00	1.80	2.40	12.0
JUN													
11...	1910	E4.3	3.4	42	6.1	112	25.7	12	28	7.10	2.60	2.80	7.9
14...	1120	317	4.3	50	5.6	43	23.3	1	11	2.90	.800	2.50	2.6
JUL													
09...	1730	7.2	4.7	60	6.0	134	27.0	19	31	7.00	3.20	3.20	10.0
AUG													
14...	1630	56.6	4.5	56	5.6	72	26.3	7	19	5.30	1.30	2.90	4.7

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP 2000													
27...	8	17.0	9.7	76	.190	.51	.72	4.68	4.70	.020	.32	.53	5.4
DEC													
11...	9	51.0	7.9	126	<.010	.25	.57	--	4.30	<.010	--	--	4.9
FEB 2001													
05...	27	21.0	5.7	75	.020	.65	1.2	--	.480	<.010	.63	1.2	1.7
26...	18	28.0	8.4	86	.116	.64	.61	1.75	1.80	.050	.52	.49	2.4
MAR													
05...	16	23.0	9.1	86	.325	.72	.94	3.17	3.20	.030	.39	.61	4.1
APR													
02...	12	17.0	7.4	66	.078	.50	.65	--	2.70	<.010	.42	.57	3.4
JUN													
11...	16	18.0	5.3	55	.058	.72	.72	--	.340	<.010	.66	.66	1.1
14...	9	4.0	2.3	25	.076	.60	1.1	--	.820	<.010	.52	1.0	1.9
JUL													
09...	12	21.0	6.0	68	.028	.29	.34	--	2.40	<.010	.26	.31	2.7
AUG													
14...	12	6.2	7.2	40	.040	.60	.80	--	.990	<.010	.56	.76	1.8

0209171225 DRAINAGE DITCH (MS1-D1) TO MIDDLE SWAMP NEAR MARLBORO, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000						
27...	<.020	<.010	.070	3.6	90	27.0
DEC						
11...	<.020	.010	<.020	2.4	20	15.0
FEB 2001						
05...	.050	.040	.160	9.4	270	8.3
26...	<.020	<.010	.020	3.0	40	4.3
MAR						
05...	<.020	<.010	.060	6.2	50	12.0
APR						
02...	<.020	<.010	.040	6.4	90	19.0
JUN						
11...	.030	.020	.050	8.5	260	20.0
14...	.060	.050	.150	8.6	200	16.0
JUL						
09...	<.020	<.010	<.020	4.0	40	17.0
AUG						
14...	.030	.030	.080	8.9	220	14.0

353354077343401 TILE DRAIN (MS2-T2) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'53.6", long 77°34'34.3", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.3 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 2000													
29...	1105	9.9	6.8	77	4.2	132	21.6	33	9.90	1.90	3.70	3.4	12.0
DEC													
11...	1415	5.0	9.4	85	4.4	143	10.9	38	11.0	2.60	1.90	5.2	12.0
FEB 2001													
26...	1108	2.3	10.5	91	4.2	148	9.5	39	11.0	2.80	1.40	6.4	12.0
APR													
02...	1700	13.1	9.4	86	4.3	159	11.3	44	13.0	2.70	2.70	4.9	13.0
JUN													
11...	1725	.28	7.3	84	4.2	161	21.7	37	11.0	2.30	2.60	5.7	14.0
JUL													
09...	1505	1.8	6.5	74	4.2	162	21.9	40	12.0	2.50	3.20	4.8	16.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
SEP 2000													
29...	21.0	.050	.30	.22	2.60	<.010	.25	.17	2.8	<.020	<.010	<.020	2.8
DEC													
11...	30.0	<.010	<.20	<.20	2.00	<.010	--	--	--	<.020	<.010	<.020	1.4
FEB 2001													
26...	33.0	<.010	.39	.30	1.60	<.010	--	--	1.9	<.020	<.010	<.020	1.1
APR													
02...	27.0	<.010	.24	.25	4.30	<.010	--	--	4.5	<.020	<.010	<.020	2.5
JUN													
11...	23.0	.012	.20	<.20	2.90	<.010	.19	--	--	<.020	.010	<.020	2.8
JUL													
09...	23.0	<.010	<.20	<.20	3.70	<.010	--	--	--	<.020	<.010	<.020	2.1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000		
29...	30	13.0
DEC		
11...	M	15.0
FEB 2001		
26...	20	16.0
APR		
02...	20	17.0
JUN		
11...	160	25.0
JUL		
09...	10	16.0

353354077343402 WEST DRAINAGE DITCH (MS2-D2) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'54.0", long 77°34'34.4", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.3 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
29...	1020	E4.7	6.7	74	4.6	121	20.6	30	32	9.60	2.00	3.60	3.8
DEC													
11...	1405	E1.8	8.9	79	4.8	134	10.3	35	38	11.0	2.50	2.20	5.3
FEB 2001													
06...	1315	E.54	8.3	69	5.0	123	7.2	33	36	11.0	2.00	1.70	5.1
26...	1055	E4.3	9.0	82	4.8	134	11.2	34	38	11.0	2.60	2.20	6.1
APR													
02...	1630	17.0	9.2	85	4.6	142	12.3	38	41	12.0	2.70	2.70	5.1
JUN													
11...	1715	E.05	5.6	63	4.8	138	21.3	36	39	11.0	2.70	2.10	6.0
JUL													
09...	1450	E2.8	6.0	70	4.5	149	22.6	38	40	12.0	2.40	3.10	5.0

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
SEP 2000													
29...	2	12.0	20.0	62	.080	.30	.48	2.20	<.010	.22	.40	2.7	<.020
DEC													
11...	3	12.0	28.0	70	<.010	<.20	.37	1.60	<.010	--	--	2.0	<.020
FEB 2001													
06...	2	12.0	27.0	65	.020	<.20	.88	.900	<.010	--	.86	1.8	<.020
26...	4	13.0	29.0	72	<.010	.41	.42	1.20	<.010	--	--	1.6	<.020
APR													
02...	3	13.0	25.0	78	.013	.21	.31	3.60	<.010	.20	.30	3.9	<.020
JUN													
11...	3	14.0	27.0	77	.044	.26	.59	2.70	<.010	.22	.55	3.3	<.020
JUL													
09...	2	16.0	21.0	76	.026	<.20	.26	3.40	<.010	--	.23	3.7	<.020

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000					
29...	<.010	.050	2.6	100	18.0
DEC					
11...	<.010	<.020	1.7	70	21.0
FEB 2001					
06...	<.010	.080	2.0	340	15.0
26...	<.010	.020	2.5	90	26.0
APR					
02...	<.010	.020	2.7	50	21.0
JUN					
11...	<.010	.040	2.8	10	15.0
JUL					
09...	<.010	<.020	2.5	70	19.0

353351077342001 TILE DRAIN (MS2-T1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'51.0", long 77°34'19.9", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.25 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
29...	0755	7.4	5.1	58	4.3	117	21.6	--	29	7.10	2.80	3.30	2.3
DEC													
11...	1155	4.5	8.4	74	4.6	112	10.0	30	33	8.10	3.10	2.70	2.7
JAN 2001													
18...	1405	.08	10	84	4.6	125	8.1	33	36	9.10	3.20	4.50	3.0
FEB													
06...	1115	1.6	9.9	84	4.5	125	8.2	--	36	9.10	3.20	4.00	3.0
26...	1235	5.6	7.5	65	4.3	124	9.5	--	35	8.70	3.20	2.80	2.9
APR													
02...	1830	13.3	6.4	59	4.2	132	11.6	--	37	9.20	3.50	3.10	2.8
JUN													
11...	1635	.35	7.5	86	4.3	155	21.6	--	41	10.0	3.90	4.90	3.2
JUL													
09...	1640	.92	5.6	66	4.4	153	23.0	--	40	9.80	3.80	5.20	2.9
AUG													
15...	1305	5.6	6.3	76	4.1	139	24.2	--	35	8.60	3.30	3.60	2.5

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
SEP 2000													
29...	--	15.0	13.0	--	.040	.47	.42	1.60	<.010	.43	.38	2.0	<.020
DEC													
11...	3	14.0	14.0	55	<.010	<.20	.21	1.90	<.010	--	--	2.1	<.020
JAN 2001													
18...	3	15.0	19.0	62	<.010	<.20	.81	1.50	<.010	--	--	2.3	<.020
FEB													
06...	--	15.0	17.0	--	.016	.22	<.20	2.00	<.010	.20	--	--	<.020
26...	--	15.0	14.0	--	<.010	.25	.28	3.00	<.010	--	--	3.3	<.020
APR													
02...	--	14.0	12.0	--	<.010	.22	.27	4.60	<.010	--	--	4.9	<.020
JUN													
11...	--	19.0	11.0	--	<.010	.35	.43	5.10	<.010	--	--	5.5	<.020
JUL													
09...	--	21.0	12.0	--	<.010	.34	.30	3.90	<.010	--	--	4.2	<.020
AUG													
15...	--	20.0	9.8	--	<.010	.28	.30	2.70	<.010	--	--	3.0	<.020

353351077342001 TILE DRAIN (MS2-T1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOSPHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGANESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000					
29...	<.010	<.020	3.2	30	9.0
DEC					
11...	<.010	<.020	2.4	10	11.0
JAN 2001					
18...	<.010	<.020	2.2	20	12.0
FEB					
06...	<.010	<.020	2.3	10	12.0
26...	<.010	<.020	1.7	10	12.0
APR					
02...	<.010	<.020	2.7	10	12.0
JUN					
11...	<.010	<.020	3.1	20	13.0
JUL					
09...	<.010	<.020	4.2	20	13.0
AUG					
15...	<.010	<.020	3.4	20	11.0

353356077342901 EAST DRAINAGE DITCH (MS2-D1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC

LOCATION.--Lat 35°33'55.6", long 77°34'29.2", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.25 mi south of U.S. Highway 264A and 1.7 mi southeast of Marlboro.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
29...	0900	16.6	7.7	83	4.9	124	19.4	31	34	9.00	2.70	4.10	4.3
DEC													
11...	1310	14.4	8.6	75	5.2	134	9.2	36	40	11.0	3.00	3.60	5.2
JAN 2001													
18...	1510	E.05	6.7	58	5.7	149	8.8	32	42	12.0	2.80	3.70	8.4
FEB													
06...	1205	8.6	9.6	79	5.7	142	7.3	29	39	11.0	2.70	4.50	6.8
26...	1140	10.1	8.5	83	5.2	141	14.6	34	40	11.0	3.00	3.80	6.2
APR													
02...	1745	40.7	8.5	82	5.1	143	13.9	36	41	11.0	3.30	3.70	5.2
JUN													
11...	1800	E1.8	6.4	76	6.0	138	23.1	30	39	11.0	2.90	4.20	5.9
JUL													
09...	1540	9.1	7.1	87	5.6	152	24.8	37	44	12.0	3.30	4.40	6.0
AUG													
15...	1210	15.7	7.2	88	5.4	130	25.3	30	37	9.80	3.00	4.60	4.5

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP 2000													
29...	3	15.0	18.0	64	.090	.44	.62	--	1.90	<.010	.35	.53	2.5
DEC													
11...	4	17.0	22.0	73	.060	.20	.33	--	2.00	<.010	.14	.27	2.3
JAN 2001													
18...	10	20.0	23.0	79	.029	.69	.83	.760	.770	.010	.66	.80	1.6
FEB													
06...	10	17.0	20.0	76	.137	.38	.47	--	1.70	<.010	.24	.33	2.2
26...	6	17.0	20.0	75	.068	.34	.58	--	2.30	<.010	.27	.51	2.9
APR													
02...	5	16.0	17.0	78	.040	.28	.43	--	4.20	<.010	.24	.39	4.6
JUN													
11...	9	18.0	14.0	71	.316	.89	.99	1.99	2.00	.010	.57	.67	3.0
JUL													
09...	6	20.0	15.0	81	.088	.36	.44	--	3.60	<.010	.27	.35	4.0
AUG													
15...	7	17.0	15.0	68	.070	.40	.60	--	2.20	<.010	.33	.53	2.8

353356077342901 EAST DRAINAGE DITCH (MS2-D1) TO MIDDLE SWAMP TRIBUTARY NEAR MARLBORO, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000						
29...	<.020	<.010	.060	3.2	100	16.0
DEC						
11...	<.020	.010	<.020	2.6	40	20.0
JAN 2001						
18...	<.020	<.010	.030	2.8	40	24.0
FEB						
06...	<.020	<.010	.030	2.5	50	17.0
26...	<.020	<.010	.030	2.6	50	26.0
APR						
02...	<.020	<.010	.020	3.1	60	19.0
JUN						
11...	<.020	.010	.070	5.1	80	18.0
JUL						
09...	<.020	<.010	<.020	4.4	40	20.0
AUG						
15...	<.020	<.010	.030	4.4	50	24.0

353308077340301 TILE DRAIN (MS3-T1) NEAR TRIBUTARY TO MIDDLE SWAMP NEAR MARLBORO, NC

LOCATION.--Lat 35°33'08.0", long 77°34'03.4", North American Datum of 1983, Pitt County, Hydrologic Unit 03020203, approximately 0.9 mi south of U.S. Highway 264A and 2.4 mi southeast of Marlboro.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)
SEP 2000													
27...	1410	42.4	5.9	68	4.0	244	22.2	60	15.0	5.40	10.0	5.1	<1
OCT													
24...	1750	.72	8.4	89	4.2	268	18.9	65	16.0	6.20	7.10	6.4	--
DEC													
11...	1530	3.5	9.4	87	4.4	220	11.8	58	14.0	5.50	6.00	5.1	--
FEB 2001													
06...	1000	.59	10.7	92	4.5	237	9.1	68	18.0	5.60	5.70	5.6	<1
27...	0955	4.2	10	89	4.3	217	10.7	57	14.0	5.40	5.60	5.3	--
MAR													
05...	1745	13.3	5.5	51	4.3	213	11.1	56	14.0	5.20	5.80	5.2	--
APR													
03...	1515	11.5	5.2	49	4.2	211	12.2	57	14.0	5.30	6.00	5.2	--
JUN													
14...	1900	7.2	7.2	83	4.2	223	21.5	55	13.0	5.40	10.0	4.5	--
JUL													
09...	1830	8.3	6.6	77	4.2	220	22.0	53	13.0	5.10	7.50	5.5	--
AUG													
14...	1755	13.5	6.4	76	4.0	339	23.3	91	24.0	7.50	9.00	7.0	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
SEP 2000													
27...	20.0	18.0	.010	.49	.48	13.0	<.010	.48	.47	13	<.020	<.010	<.020
OCT													
24...	26.0	14.0	.050	.20	<.20	15.0	<.010	.15	--	--	<.020	<.010	<.020
DEC													
11...	23.0	16.0	<.010	.23	.27	10.0	<.010	--	--	10	<.020	<.010	<.020
FEB 2001													
06...	25.0	17.0	<.010	.22	.22	11.0	<.010	--	--	11	<.020	<.010	<.020
27...	22.0	15.0	.018	.25	.26	9.20	<.010	.23	.24	9.5	<.020	<.010	<.020
MAR													
05...	21.0	16.0	.020	.29	.29	9.80	<.010	.27	.27	10	<.020	.010	<.020
APR													
03...	21.0	15.0	<.010	.31	.25	10.0	<.010	--	--	10	<.020	<.010	<.020
JUN													
14...	20.0	14.0	.014	.35	.46	12.0	<.010	.34	.45	12	<.020	<.010	<.020
JUL													
09...	23.0	13.0	.018	<.20	.29	9.80	<.010	--	.27	10	<.020	<.010	<.020
AUG													
14...	29.0	19.0	<.010	.55	.65	20.0	<.010	--	--	21	<.020	<.010	<.020

353308077340301 TILE DRAIN (MS3-T1) NEAR TRIBUTARY TO MIDDLE SWAMP NEAR MARLBORO, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000			
27...	2.6	M	18.0
OCT			
24...	1.9	<2	25.0
DEC			
11...	1.9	M	21.0
FEB 2001			
06...	1.7	<2	24.0
27...	2.0	<2	21.0
MAR			
05...	2.6	<2	20.0
APR			
03...	2.8	<2	21.0
JUN			
14...	2.9	M	17.0
JUL			
09...	2.7	M	20.0
AUG			
14...	3.6	10	24.0

353407077411801 TILE DRAIN (SR2-T1) SANDY RUN HEADWATER NEAR WALSTONBURG, NC

LOCATION.--Lat 35°34'06.9", long 77°41'17.7", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, at State Road 1313 and approximately 2 mi south-southeast of Walstonburg.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
26...	1200	11.6	6.9	80	4.1	230	22.3	--	45	8.80	5.50	6.70	13.0
DEC													
12...	1425	2.7	9.9	90	4.7	217	11.1	--	38	7.00	5.00	4.70	16.0
JAN 2001													
18...	1015	.57	10.6	91	4.2	204	8.9	--	31	5.10	4.40	3.10	18.0
FEB													
05...	1110	1.1	10.8	94	4.8	212	9.0	26	29	5.50	3.70	3.50	22.0
27...	1205	2.8	9.9	88	4.4	223	10.4	--	38	6.80	5.10	4.30	17.0
MAR													
05...	1250	6.0	9.8	90	4.5	226	10.8	--	42	7.60	5.70	4.30	16.0
APR													
02...	1340	10.3	8.5	79	4.3	232	12.1	--	47	8.70	6.20	5.10	14.0
MAY													
03...	1510	.12	9.1	96	4.7	262	18.1	43	45	9.70	5.00	7.80	20.0
JUN													
12...	0920	.74	7.6	88	4.3	248	22.2	--	41	8.40	4.90	7.20	17.0
AUG													
14...	1020	.42	6.0	72	4.4	266	23.8	--	36	9.00	3.40	10.0	24.0

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
SEP 2000													
26...	--	28.0	13.0	--	<.010	.23	.40	9.80	<.010	10	<.020	<.010	<.020
DEC													
12...	--	29.0	9.2	--	<.010	<.20	.30	11.0	<.010	11	<.020	<.010	<.020
JAN 2001													
18...	--	29.0	8.1	--	<.010	<.20	<.20	9.00	<.010	--	<.020	<.010	<.020
FEB													
05...	2	30.0	11.0	114	.020	<.20	<.20	8.40	<.010	--	<.020	<.010	<.020
27...	--	29.0	8.5	--	<.010	<.20	<.20	11.0	<.010	--	<.020	<.010	<.020
MAR													
05...	--	28.0	8.9	--	<.010	.22	.21	11.0	<.010	11	<.020	<.010	<.020
APR													
02...	--	26.0	9.0	--	<.010	<.20	<.20	13.0	<.010	--	<.020	<.010	<.020
MAY													
03...	2	29.0	11.0	150	<.010	.25	.27	15.0	<.010	15	<.020	<.010	<.020
JUN													
12...	--	28.0	10.0	--	<.010	<.20	<.20	13.0	<.010	--	<.020	.040	<.020
AUG													
14...	--	32.0	16.0	--	<.010	<.20	<.20	12.0	<.010	--	<.020	<.010	<.020

353407077411801 TILE DRAIN (SR2-T1) SANDY RUN HEADWATER NEAR WALSTONBURG, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000			
26...	1.6	10	24.0
DEC			
12...	1.7	M	23.0
JAN 2001			
18...	.60	M	20.0
FEB			
05...	1.2	M	20.0
27...	1.6	M	23.0
MAR			
05...	2.8	M	23.0
APR			
02...	2.0	M	24.0
MAY			
03...	1.4	M	29.0
JUN			
12...	.70	M	25.0
AUG			
14...	1.5	M	29.0

02091717 SANDY RUN HEADWATER (SR2-D1) ABOVE STATE ROAD 1312 NEAR WALSTONBURG, NC

LOCATION.--Lat 35°33'58.0", long 77°41'20.4", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, above State Road 1312 and approximately 2 mi south-southeast of Walstonburg.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
28...	1445	<.01	4.7	57	6.3	110	24.4	13	31	7.50	3.00	5.60	4.5
SEP													
26...	1325	E117	7.8	86	4.7	180	20.1	44	46	11.0	4.60	8.40	4.9
OCT													
24...	1200	1.1	6.4	61	6.1	164	13.4	31	49	12.0	4.50	9.40	4.4
NOV													
13...	1040	<.01	7.7	68	6.3	158	10.1	22	44	11.0	4.10	11.0	4.2
DEC													
12...	1505	13.6	11.8	113	5.6	183	13.8	48	51	12.0	5.20	6.40	6.4
JAN 2001													
18...	1115	E.05	8.8	74	5.6	165	8.2	40	49	12.0	4.70	5.40	6.0
FEB													
05...	1155	8.5	13.5	116	6.1	126	8.6	26	36	9.10	3.20	5.00	4.9
27...	1310	21.7	13.5	134	5.2	171	15.6	45	47	11.0	4.80	5.70	6.8
MAR													
05...	1330	87.6	11.8	108	5.2	168	11.0	42	46	10.0	5.00	6.10	7.0
APR													
02...	1505	458	9.0	87	4.7	103	14.0	24	27	5.90	2.90	3.50	4.3
MAY													
03...	1610	E.05	10.1	122	5.9	165	25.3	40	47	11.0	4.70	6.10	5.0
JUN													
12...	1100	9.2	8.0	93	5.7	191	22.5	48	55	13.0	5.50	7.30	5.8
JUL													
11...	1035	E2.2	3.9	47	6.4	172	23.6	32	51	12.0	5.20	8.40	4.6
AUG													
14...	1110	E3.7	4.7	56	6.1	92	23.7	4	32	9.70	1.90	6.90	2.6

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG 2000													
28...	18	14.0	9.2	55	.100	.72	1.0	--	.050	<.010	.62	.90	1.1
SEP													
26...	3	24.0	14.0	91	.080	.56	.65	5.09	5.10	.010	.48	.57	5.8
OCT													
24...	18	25.0	13.0	85	.070	.36	.41	1.38	1.40	.020	.29	.34	1.8
NOV													
13...	22	23.0	11.0	78	.050	.57	.69	--	.060	<.010	.52	.64	.75
DEC													
12...	4	27.0	14.0	99	.010	.34	.38	--	5.90	<.010	.33	.37	6.3
JAN 2001													
18...	9	23.0	12.0	88	.014	.38	.50	4.28	4.30	.020	.37	.49	4.8
FEB													
05...	10	16.0	10.0	68	.018	.38	.66	--	3.00	<.010	.36	.64	3.7
27...	3	26.0	12.0	90	.015	.32	.47	--	4.90	<.010	.30	.45	5.4
MAR													
05...	4	24.0	13.0	90	<.010	.41	.58	--	5.20	<.010	--	--	5.8
APR													
02...	3	12.0	11.0	53	.018	.56	.72	--	2.50	<.010	.54	.70	3.2
MAY													
03...	7	25.0	11.0	83	.202	.45	.79	3.59	3.60	.010	.25	.59	4.4
JUN													
12...	7	28.0	11.0	101	.128	.46	.50	5.69	5.70	.010	.33	.37	6.2
JUL													
11...	19	27.0	9.6	83	.175	.52	.80	.910	.920	.010	.35	.62	1.7
AUG													
14...	28	7.4	5.1	52	.100	1.0	1.4	--	.210	<.010	.90	1.3	1.6

02091717 SANDY RUN HEADWATER (SR2-D1) ABOVE STATE ROAD 1312 NEAR WALSTONBURG, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 2000						
28...	.020	.010	.100	7.6	180	20.0
SEP						
26...	<.020	<.010	.060	5.2	110	32.0
OCT						
24...	<.020	<.010	.040	3.6	50	10.0
NOV						
13...	<.020	.020	.040	6.2	120	10.0
DEC						
12...	<.020	.010	.020	3.2	40	34.0
JAN 2001						
18...	<.020	<.010	.030	2.4	30	34.0
FEB						
05...	<.020	.020	.040	3.9	50	18.0
27...	<.020	<.010	<.020	3.4	60	33.0
MAR						
05...	<.020	.010	<.020	6.9	70	30.0
APR						
02...	<.020	.020	.020	12	150	33.0
MAY						
03...	<.020	<.010	.040	3.6	40	32.0
JUN						
12...	<.020	.030	.020	2.1	30	34.0
JUL						
11...	<.020	<.010	.050	5.8	40	19.0
AUG						
14...	.210	.200	.300	12	220	7.6

353408077410601 TILE DRAIN (SR1-T1) TO SANDY RUN NEAR WALSTONBURG, NC

LOCATION.--Lat 35°34'07.9", long 77°41'06.3", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.05 mi east of State Road 1312 and approximately 2 mi south-southeast of Walstonburg.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 2000													
26...	1045	E25.4	7.1	81	3.9	383	21.1	84	18.0	9.40	17.0	13.0	49.0
DEC													
12...	1255	1.7	9.9	88	4.2	380	10.3	98	21.0	11.0	7.60	13.0	48.0
MAR 2001													
05...	1130	.47	10.3	94	4.4	381	10.5	98	21.0	11.0	9.90	14.0	44.0
APR													
02...	1205	10.3	8.2	75	4.3	360	11.4	91	20.0	10.0	8.80	11.0	47.0
JUN													
12...	1020	.88	7.5	84	4.0	382	20.8	93	19.0	11.0	8.20	13.0	49.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000													
26...	8.0	<.010	.53	.63	20.0	<.010	21	<.020	<.010	.030	4.3	10	41.0
DEC													
12...	4.7	<.010	<.20	<.20	23.0	<.010	--	<.020	.010	<.020	1.2	M	51.0
MAR 2001													
05...	4.2	<.010	.24	.21	25.0	<.010	25	<.020	<.010	<.020	2.5	M	64.0
APR													
02...	6.4	<.010	.28	.28	20.0	<.010	20	<.020	<.010	<.020	2.1	M	46.0
JUN													
12...	3.8	<.010	.20	<.20	22.0	<.010	--	<.020	<.010	<.020	1.5	M	48.0

0209171725 DRAINAGE DITCH (SR1-D1) TO SANDY RUN NEAR WALSTONBURG, NC

LOCATION.--Lat 35°33'58.9, long 77°41'08.6, North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi east of State Road 1312 and approximately 2 mi south-southeast of Walstonburg.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
26...	0905	49.4	7.2	80	4.5	273	20.2	--	70	17.0	6.80	12.0	7.9
OCT													
24...	1100	<.01	2.4	22	6.2	140	11.9	4	38	8.20	4.20	12.0	6.3
DEC													
12...	1330	E3.7	10.8	104	5.6	228	13.3	61	66	16.0	6.40	6.20	8.7
JAN 2001													
18...	1230	E1.8	12.7	110	5.8	185	9.0	42	56	14.0	5.00	5.00	7.9
FEB													
05...	1515	E3.4	12.9	120	5.9	182	11.9	37	50	12.0	4.80	6.10	7.7
27...	1100	5.9	14.4	128	5.5	208	10.7	52	61	15.0	5.60	4.90	8.7
MAR													
05...	1210	15.8	12.3	113	5.4	224	11.0	59	65	16.0	6.00	5.90	8.6
APR													
02...	1250	40.0	9.2	93	4.9	269	16.2	74	77	19.0	7.10	7.40	8.2
MAY													
03...	1645	E.05	3.0	35	6.2	173	24.7	21	46	11.0	4.50	8.30	6.7
JUN													
12...	1150	5.6	5.2	63	5.8	229	24.2	53	65	15.0	6.60	6.80	8.7
JUL													
11...	0955	E1.1	2.8	34	6.4	187	25.3	13	48	11.0	5.00	10.0	7.2
AUG													
14...	1205	E2.0	5.9	71	5.9	87	24.7	--	18	4.20	1.80	9.50	2.2

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP 2000													
26...	--	37.0	13.0	--	.090	.51	.67	--	12.0	<.010	.42	.58	13
OCT													
24...	34	26.0	10.0	92	3.90	5.1	7.1	--	<.020	<.010	1.2	3.2	--
DEC													
12...	6	31.0	13.0	126	.050	.31	.47	9.27	9.30	.030	.26	.42	9.8
JAN 2001													
18...	14	23.0	16.0	100	.018	.27	.78	4.64	4.70	.060	.25	.76	5.5
FEB													
05...	13	24.0	13.0	94	.022	.43	.99	4.18	4.20	.020	.41	.97	5.2
27...	9	26.0	16.0	114	.022	<.20	.48	7.29	7.30	.010	--	.46	7.8
MAR													
05...	6	27.0	16.0	125	.342	.66	.86	9.28	9.30	.020	.32	.52	10
APR													
02...	3	35.0	13.0	149	.038	.28	.41	13.0	13.0	.010	.24	.37	13
MAY													
03...	25	26.0	9.9	83	.508	.92	1.9	.210	.240	.030	.41	1.4	2.1
JUN													
12...	12	33.0	8.2	122	.214	.67	1.2	8.14	8.20	.060	.46	.99	9.4
JUL													
11...	35	26.0	6.5	89	1.84	2.6	4.7	--	<.020	<.010	.76	2.9	--
AUG													
14...	18	6.7	5.8	47	.560	2.0	4.8	1.17	1.20	.030	1.4	4.2	6.0

0209171725 DRAINAGE DITCH (SR1-D1) TO SANDY RUN NEAR WALSTONBURG, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000						
26...	<.020	<.010	.030	<.10	90	34.0
OCT						
24...	<.020	<.010	.320	7.1	110	33.0
DEC						
12...	<.020	.020	<.020	1.6	60	39.0
JAN 2001						
18...	<.020	<.010	.040	2.3	50	24.0
FEB						
05...	<.020	<.010	.040	3.8	110	20.0
27...	<.020	<.010	<.020	3.0	80	27.0
MAR						
05...	<.020	<.010	.020	3.2	80	31.0
APR						
02...	<.020	<.010	<.020	2.9	100	36.0
MAY						
03...	<.020	<.010	.150	6.5	100	33.0
JUN						
12...	<.020	.040	.090	2.6	20	41.0
JUL						
11...	.020	<.010	.360	8.2	60	45.0
AUG						
14...	.030	.030	.580	9.2	200	10.0

353220077392401 TILE DRAIN (SR3-T1) AT DITCH TO SANDY RUN NEAR CASTORIA, NC

LOCATION.--Lat 35°32'19.5", long 77°39'23.5", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi south of State Road 1324 and approximately 1 mi east-northeast of Castoria.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
26...	1615	27.1	4.3	49	4.2	198	22.1	--	52	15.0	3.50	9.40	3.0
OCT													
23...	1815	.14	9.5	101	4.7	274	19.0	76	78	23.0	5.10	10.0	5.7
DEC													
12...	1555	4.5	9.0	81	4.7	266	11.3	79	81	24.0	5.20	6.40	5.3
JAN 2001													
17...	1145	.19	10.6	92	4.3	295	9.2	--	89	26.0	5.90	8.10	6.1
FEB													
05...	1315	.14	10.4	92	4.7	298	9.7	86	88	26.0	5.70	8.80	6.2
27...	1515	2.9	9.6	85	4.2	267	10.1	76	78	23.0	5.00	6.30	5.6
MAR													
05...	1415	7.3	8.9	81	4.5	262	10.4	--	--	--	--	--	--
APR													
03...	1330	6.4	8.8	81	4.4	272	11.4	--	79	23.0	5.30	6.90	5.1
JUN													
11...	0950	.70	8.0	90	4.3	301	20.9	--	85	25.0	5.40	9.10	5.9
JUL													
10...	1255	.10	7.2	87	4.0	329	24.5	--	92	27.0	6.00	12.0	6.2

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
SEP 2000													
26...	--	29.0	16.0	--	.020	.43	.46	4.20	<.010	.41	.44	4.7	<.020
OCT													
23...	2	48.0	23.0	134	<.010	.32	.36	4.00	<.010	--	--	4.4	<.020
DEC													
12...	2	43.0	25.0	133	.170	.36	.40	5.10	<.010	.19	.23	5.5	<.020
JAN 2001													
17...	--	52.0	24.0	--	<.010	.30	<.20	5.80	<.010	--	--	--	<.020
FEB													
05...	2	52.0	24.0	148	<.010	.22	.22	5.50	<.010	--	--	5.7	<.020
27...	2	42.0	23.0	132	.168	.44	.37	5.90	<.010	.27	.20	6.3	<.020
MAR													
05...	--	--	--	--	--	--	--	--	--	--	--	--	--
APR													
03...	--	39.0	21.0	--	.136	.44	.40	8.70	<.010	.30	.26	9.1	<.020
JUN													
11...	--	46.0	20.0	--	.028	.36	.32	9.40	<.010	.33	.29	9.7	<.020
JUL													
10...	--	52.0	19.0	--	.015	.29	.23	9.60	<.010	.27	.22	9.8	<.020

353220077392401 TILE DRAIN (SR3-T1) AT DITCH TO SANDY RUN NEAR CASTORIA, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000					
26...	.020	.030	3.1	70	26.0
OCT					
23...	<.010	<.020	2.3	40	39.0
DEC					
12...	.020	<.020	2.8	30	37.0
JAN 2001					
17...	<.010	<.020	2.0	30	45.0
FEB					
05...	<.010	<.020	2.3	20	43.0
27...	<.010	<.020	2.8	20	39.0
MAR					
05...	--	--	--	--	--
APR					
03...	<.010	<.020	2.3	10	39.0
JUN					
11...	<.010	<.020	2.6	20	40.0
JUL					
10...	<.010	<.020	1.8	30	43.0

353212077392801 DRAINAGE DITCH (SR3-D1) TO SANDY RUN NEAR CASTORIA, NC

LOCATION.--Lat 35°32'11.7", long 77°39'28.3", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.2 mi south of State Road 1324 and approximately 1 mi east-northeast of Castoria.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
26...	1500	85.3	7.7	87	5.5	167	20.9	42	49	14.0	3.50	9.50	2.6
OCT													
23...	1730	E2.0	8.7	88	5.8	176	16.6	48	54	15.0	4.00	6.40	4.0
NOV													
13...	1200	E.05	11.2	103	6.3	178	11.4	47	54	15.0	4.10	5.90	4.0
DEC													
12...	1630	7.8	8.6	77	5.8	210	10.7	62	67	19.0	4.80	7.40	4.3
JAN 2001													
17...	1245	E2.8	12.5	111	5.7	183	10.5	54	60	17.0	4.30	5.20	4.0
FEB													
05...	1405	E3.2	11.8	112	6.5	149	12.9	38	46	13.0	3.20	5.80	3.5
27...	1600	10.4	10.7	105	5.9	198	14.7	58	66	19.0	4.40	6.10	4.3
APR													
03...	1300	22.6	10.5	98	5.8	193	12.7	56	63	18.0	4.40	6.10	4.1
MAY													
03...	1415	E1.5	7.6	99	6.4	173	29.5	47	53	15.0	3.80	5.60	3.9
JUN													
11...	1035	E4.1	7.1	81	6.0	186	21.3	51	60	17.0	4.20	5.20	4.2
JUL													
10...	1325	E1.8	6.6	87	6.2	166	29.2	42	53	15.0	3.80	6.20	3.9
AUG													
14...	1320	17.4	6.8	85	6.1	100	26.2	19	32	9.30	2.10	5.80	1.7

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP 2000													
26...	8	24.0	13.0	88	.030	.50	.79	--	3.70	<.010	.47	.76	4.5
OCT													
23...	6	25.0	14.0	89	<.010	.37	.41	--	3.90	<.010	--	--	4.3
NOV													
13...	7	25.0	15.0	93	.050	.26	.31	--	4.40	<.010	.21	.26	4.7
DEC													
12...	6	34.0	20.0	112	.030	.38	.36	--	4.20	<.010	.35	.33	4.6
JAN 2001													
17...	6	27.0	17.0	99	.012	.30	<.20	--	4.70	<.010	.29	--	--
FEB													
05...	8	20.0	15.0	79	.018	.26	.46	--	3.10	<.010	.24	.44	3.6
27...	8	30.0	18.0	106	.010	.36	.35	--	4.40	<.010	.35	.34	4.8
APR													
03...	7	27.0	16.0	104	.034	.37	.57	--	5.40	<.010	.34	.54	6.0
MAY													
03...	6	28.0	14.0	86	.314	.79	1.0	2.55	2.60	.050	.48	.69	3.6
JUN													
11...	9	30.0	13.0	94	.020	.32	.38	--	3.30	<.010	.30	.36	3.7
JUL													
10...	11	27.0	11.0	82	.026	.36	.42	--	2.00	<.010	.33	.39	2.4
AUG													
14...	13	10.0	11.0	52	.020	.80	1.2	--	.830	<.010	.78	1.2	2.0

353212077392801 DRAINAGE DITCH (SR3-D1) TO SANDY RUN NEAR CASTORIA, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000						
26...	<.020	.010	.060	4.4	120	43.0
OCT						
23...	<.020	<.010	<.020	3.5	10	48.0
NOV						
13...	<.020	.010	.020	2.6	10	25.0
DEC						
12...	<.020	<.010	<.020	2.7	40	52.0
JAN 2001						
17...	<.020	<.010	<.020	1.8	M	62.0
FEB						
05...	<.020	<.010	<.020	3.9	20	27.0
27...	<.020	<.010	<.020	2.8	20	46.0
APR						
03...	<.020	<.010	<.020	3.1	40	41.0
MAY						
03...	<.020	<.010	.040	3.6	40	20.0
JUN						
11...	<.020	<.010	<.020	3.2	20	36.0
JUL						
10...	<.020	<.010	<.020	4.4	20	7.6
AUG						
14...	.020	.020	.100	9.0	200	19.0

353107077383001 TILE DRAIN (SR4-T1) AT UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'06.7", long 77°38'30.4", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi south of State Road 1301 and approximately 1.5 mi west-northwest of Lizzie.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)
AUG 2000													
28...	1730	.27	6.5	76	4.2	610	23.1	120	31.0	11.0	21.0	34.0	<1
SEP													
27...	0925	E42.3	5.2	58	3.9	456	21.2	100	28.0	8.50	16.0	14.0	<1
DEC													
12...	1150	2.5	9.0	84	4.4	671	12.1	130	34.0	12.0	22.0	33.0	--
JAN 2001													
17...	1000	.54	10.6	90	4.1	759	8.6	160	40.0	14.0	23.0	40.0	--
FEB													
05...	1600	.78	9.8	85	4.4	759	8.8	160	40.0	14.0	23.0	40.0	--
27...	1435	3.5	8.8	78	4.0	590	10.6	130	32.0	11.0	18.0	29.0	--
MAR													
05...	1510	6.8	9.2	85	4.2	504	11.0	110	28.0	9.30	15.0	24.0	--
APR													
03...	1415	17.1	8.3	77	4.1	437	12.0	100	27.0	8.50	12.0	17.0	--
MAY													
03...	1320	1.0	8.7	88	4.1	587	16.3	120	31.0	11.0	17.0	29.0	--
JUN													
11...	1425	5.5	7.4	82	4.0	427	19.5	97	26.0	7.90	12.0	15.0	--
JUL													
10...	1200	4.5	6.9	80	3.7	453	21.9	98	26.0	8.10	14.0	17.0	--
AUG													
14...	1435	13.7	5.8	70	3.9	405	23.5	84	22.0	7.00	15.0	16.0	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
AUG 2000													
28...	61.0	12.0	.180	<.20	<.20	40.0	<.010	--	--	--	<.020	<.010	<.020
SEP													
27...	35.0	17.0	.100	.31	.36	32.0	<.010	.21	.26	32	.020	<.010	<.020
DEC													
12...	63.0	16.0	.300	.54	.55	58.0	<.010	.24	.25	59	<.020	<.010	<.020
JAN 2001													
17...	74.0	12.0	.102	.29	.32	58.0	<.010	.19	.22	58	<.020	<.010	<.020
FEB													
05...	73.0	12.0	.096	.33	.39	56.0	<.010	.23	.29	56	<.020	.020	<.020
27...	54.0	18.0	.224	.45	.50	41.0	<.010	.23	.28	42	<.020	<.010	<.020
MAR													
05...	46.0	19.0	.168	.39	.43	34.0	<.010	.22	.26	34	<.020	<.010	<.020
APR													
03...	36.0	19.0	.096	.34	.33	31.0	<.010	.24	.23	31	<.020	<.010	<.020
MAY													
03...	53.0	17.0	.235	.56	.57	45.0	<.010	.33	.33	46	<.020	<.010	<.020
JUN													
11...	35.0	19.0	.292	.54	.52	30.0	<.010	.25	.23	31	<.020	<.010	<.020
JUL													
10...	38.0	17.0	.244	.42	.41	31.0	<.010	.18	.17	31	<.020	<.010	<.020
AUG													
14...	34.0	17.0	.292	.64	.47	27.0	<.010	.35	.18	27	<.020	<.010	<.020

353107077383001 TILE DRAIN (SR4-T1) AT UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)
AUG 2000			
28...	2.1	30	110
SEP			
27...	1.9	M	62.0
DEC			
12...	1.9	10	92.0
JAN 2001			
17...	1.6	M	110
FEB			
05...	2.0	10	110
27...	2.4	M	83.0
MAR			
05...	3.0	M	76.0
APR			
03...	2.2	M	67.0
MAY			
03...	2.1	M	87.0
JUN			
11...	3.0	M	65.0
JUL			
10...	1.4	M	66.0
AUG			
14...	2.4	20	61.0

353111077334901 TILE DRAIN (SR5-T1) TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'11.2", long 77°33'48.7", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.25 mi north of State Road 1335 and approximately 1.8 mi west-northwest of Willow Green.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)
SEP 2000													
27...	0810	8.3	6.6	74	3.8	613	21.0	140	36.0	11.0	18.0	27.0	<1
DEC													
12...	0835	.16	9.8	87	4.5	579	10.1	140	38.0	12.0	11.0	23.0	--
FEB 2001													
06...	0835	.66	10.3	88	4.1	570	8.5	150	40.0	12.0	9.20	23.0	--
27...	0855	6.6	10.1	88	4.0	630	9.9	150	40.0	13.0	11.0	27.0	--
APR													
02...	1945	17.6	9.1	83	4.1	597	11.5	140	37.0	12.0	13.0	27.0	--
MAY													
03...	1900	.44	9.2	94	4.1	576	16.2	140	37.0	11.0	13.0	24.0	--
JUN													
11...	1210	1.2	7.7	85	4.0	620	20.1	150	39.0	12.0	13.0	27.0	--
JUL													
09...	1940	.21	7.5	86	4.2	536	21.5	120	33.0	10.0	16.0	23.0	<1
AUG													
14...	1915	4.8	6.8	81	4.0	529	23.1	110	30.0	9.30	15.0	24.0	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
SEP 2000													
27...	79.0	16.0	.010	.27	.37	31.0	<.010	.26	.36	31	<.020	.010	<.020
DEC													
12...	71.0	14.0	.640	.96	.94	33.0	<.010	.32	.30	34	.030	.020	.020
FEB 2001													
06...	68.0	15.0	<.010	<.20	<.20	35.0	<.010	--	--	--	<.020	<.010	<.020
27...	74.0	16.0	.020	.25	.27	38.0	<.010	.23	.25	38	<.020	<.010	<.020
APR													
02...	66.0	18.0	.011	.30	.34	39.0	<.010	.29	.33	39	<.020	.010	<.020
MAY													
03...	66.0	14.0	<.010	.26	.34	36.0	<.010	--	--	36	<.020	<.010	<.020
JUN													
11...	67.0	14.0	<.010	.28	.31	46.0	<.010	--	--	46	<.020	.010	<.020
JUL													
09...	59.0	14.0	<.010	<.20	<.20	35.0	<.010	--	--	--	<.020	<.010	<.020
AUG													
14...	59.0	16.0	.030	.48	.62	30.0	<.010	.45	.59	31	.020	.020	.050

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000			
27...	2.3	10	77.0
DEC			
12...	2.6	M	54.0
FEB 2001			
06...	1.0	M	58.0
27...	2.0	M	77.0
APR			
02...	2.9	M	73.0
MAY			
03...	1.6	M	53.0
JUN			
11...	2.4	M	64.0
JUL			
09...	2.5	M	47.0
AUG			
14...	3.3	M	56.0

353110077330901 TILE DRAIN (MS4-T1) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'09.6", long 77°33'08.9", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.25 mi east of State Road 1345 and 1.1 mi west-northwest of Willow Green.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 2000													
28...	1345	4.0	8.0	91	4.2	143	21.4	39	11.0	2.70	2.90	5.1	12.0
DEC													
11...	1630	1.4	9.8	89	4.5	155	11.0	42	12.0	3.00	2.20	5.3	12.0
JAN 2001													
17...	0800	.20	11.2	95	4.4	150	8.6	45	13.0	3.00	1.80	4.9	11.0
FEB													
06...	1440	.25	10.8	94	4.7	152	9.6	45	13.0	3.10	1.80	4.9	10.0
26...	1620	4.9	10.1	90	4.2	161	10.2	45	13.0	3.00	2.20	5.5	12.0
APR													
03...	1140	6.8	9.4	87	4.3	168	12.0	46	13.0	3.20	2.40	5.2	11.0
JUN													
11...	1310	.42	8.4	95	4.4	162	21.3	45	13.0	3.10	2.40	5.0	11.0
14...	1545	1.8	7.8	88	4.3	169	20.6	46	13.0	3.30	3.20	4.6	10.0
JUL													
10...	1025	1.8	7.5	87	4.0	164	22.5	42	12.0	2.90	2.80	5.4	12.0
AUG													
15...	0745	16.8	6.1	72	4.1	186	23.6	46	13.0	3.30	4.10	4.6	9.7

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000													
28...	19.0	<.010	<.20	<.20	6.40	<.010	--	<.020	<.010	<.020	1.4	M	19.0
DEC													
11...	18.0	<.010	<.20	<.20	6.80	<.010	--	<.020	<.010	<.020	1.1	<2	18.0
JAN 2001													
17...	20.0	<.010	<.20	<.20	7.00	<.010	--	<.020	<.010	<.020	.80	<2	16.0
FEB													
06...	19.0	.011	<.20	<.20	7.00	<.010	--	<.020	<.010	<.020	1.9	M	16.0
26...	21.0	<.010	<.20	.21	6.80	<.010	7.0	<.020	<.010	<.020	2.0	<2	21.0
APR													
03...	21.0	.013	<.20	<.20	7.70	<.010	--	<.020	<.010	<.020	1.5	M	22.0
JUN													
11...	17.0	.013	<.20	<.20	8.50	<.010	--	<.020	<.010	<.020	2.2	<2	17.0
14...	17.0	<.010	.23	.20	9.50	<.010	9.7	<.020	<.010	<.020	1.9	<2	21.0
JUL													
10...	16.0	.018	<.20	<.20	8.10	<.010	--	<.020	<.010	<.020	.80	<2	18.0
AUG													
15...	17.0	<.010	.20	.22	11.0	<.010	11	<.020	<.010	<.020	1.7	M	25.0

353111077330501 SOUTH DRAINAGE DITCH (MS4-D1) NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'10.5", long 77°33'05.1", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.3 mi east of State Road 1345 and 1.1 mi west-northwest of Willow Green.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 2000													
28...	1220	5.8	4.9	51	5.7	192	17.5	53	62	19.0	3.60	4.20	6.2
DEC													
11...	1655	E4.5	8.0	65	5.8	190	6.8	45	60	18.0	3.70	7.40	5.7
FEB 2001													
06...	1515	E.72	10.0	88	5.9	130	9.7	27	40	12.0	2.40	4.30	5.4
26...	1700	6.5	8.0	79	6.0	141	15.2	32	44	13.0	2.80	3.70	5.3
APR													
03...	1210	14.4	9.0	83	5.9	138	11.9	33	44	13.0	2.90	2.70	4.9
JUN													
14...	1450	14.2	4.3	50	6.0	108	22.7	10	44	13.0	2.70	1.90	4.3
JUL													
10...	1110	E4.6	4.5	53	6.1	127	23.6	12	48	14.0	3.20	.80	5.5
AUG													
15...	0845	24.6	4.9	56	5.7	147	22.4	34	48	14.0	3.20	3.70	4.4

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
SEP 2000													
28...	10	12.0	50.0	105	.020	.44	.49	--	.950	<.010	.42	.47	1.4
DEC													
11...	15	20.0	36.0	110	<.010	.33	.32	--	2.40	<.010	--	--	2.7
FEB 2001													
06...	13	12.0	26.0	71	.020	.25	.35	--	.140	<.010	.23	.33	.49
26...	12	12.0	21.0	77	.019	.34	.41	--	2.60	<.010	.32	.39	3.0
APR													
03...	11	11.0	19.0	77	.046	.38	.42	--	3.80	<.010	.33	.37	4.2
JUN													
14...	34	8.3	5.0	57	.022	.96	1.1	--	.090	<.010	.94	1.1	1.2
JUL													
10...	36	10.0	6.7	63	.021	.53	.68	--	.280	<.010	.51	.66	.96
AUG													
15...	14	10.0	14.0	83	.030	.40	.80	5.59	5.60	.010	.37	.77	6.4

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000						
28...	<.020	.010	.050	5.5	70	30.0
DEC						
11...	<.020	<.010	.030	3.2	50	11.0
FEB 2001						
06...	<.020	.030	.040	4.3	120	18.0
26...	<.020	.020	.060	5.3	60	7.2
APR						
03...	<.020	.020	.030	2.6	60	11.0
JUN						
14...	.050	.040	.120	13	550	21.0
JUL						
10...	<.020	<.010	.040	7.5	240	10.0
AUG						
15...	<.020	<.010	<.020	4.2	110	20.0

353125077332501 TILE DRAIN (MS4-T2) MIDDLE SWAMP TRIBUTARY NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'25.2", long 77°33'24.5", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.1 mi west of State Road 1345 and 1.5 mi west-northwest of Willow Green.

DRAINAGE AREA.--Not applicable.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from subsurface tile drains in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
SEP 2000													
28...	1450	15.3	6.2	70	4.0	497	21.4	100	26.0	9.20	19.0	21.0	49.0
DEC													
12...	1000	14.1	9.2	85	4.3	484	12.0	110	28.0	9.50	13.0	20.0	54.0
FEB 2001													
26...	1420	6.7	7.6	70	4.0	463	11.5	110	27.0	9.50	11.0	20.0	52.0
MAR													
05...	1610	15.7	8.2	74	4.1	476	10.4	110	28.0	9.90	11.0	21.0	53.0
APR													
03...	0955	7.3	9.0	81	4.0	446	11.1	100	26.0	9.30	10.0	18.0	49.0
JUN													
14...	1800	44.1	6.9	76	4.0	642	19.6	140	36.0	12.0	28.0	26.0	72.0
JUL													
10...	0915	7.4	5.7	67	3.7	515	22.7	110	27.0	9.60	17.0	22.0	59.0
AUG													
15...	1000	27.0	5.3	61	3.9	558	22.7	110	28.0	9.70	26.0	24.0	65.0

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
SEP 2000													
28...	10.0	.020	.44	.51	33.0	<.010	.42	.49	34	<.020	<.010	<.020	2.4
DEC													
12...	9.4	.030	<.20	.22	30.0	<.010	--	.19	30	<.020	.020	<.020	1.6
FEB 2001													
26...	8.3	.014	.22	.29	29.0	<.010	.21	.28	29	<.020	<.010	.020	1.7
MAR													
05...	9.8	.072	.35	.33	30.0	<.010	.28	.26	30	<.020	<.010	<.020	3.2
APR													
03...	9.2	.012	.26	.37	29.0	<.010	.25	.36	29	<.020	.010	<.020	1.6
JUN													
14...	17.0	.033	.88	1.1	43.0	<.010	.85	1.1	44	.020	.010	.050	4.1
JUL													
10...	10.0	.058	.31	.33	32.0	<.010	.25	.27	32	<.020	.010	<.020	.40
AUG													
15...	12.0	.211	.90	1.0	35.0	<.010	.69	.79	36	<.020	.020	.020	4.0

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP 2000		
28...	M	49.0
DEC		
12...	M	57.0
FEB 2001		
26...	M	57.0
MAR		
05...	M	58.0
APR		
03...	M	57.0
JUN		
14...	10	60.0
JUL		
10...	M	57.0
AUG		
15...	20	51.0

0209172000 SANDY RUN AT SECONDARY ROAD 1301 NEAR CASTORIA, NC

LOCATION.--Lat 35°31'54", long 77°39'10", Greene County, Hydrologic Unit 03020203, at Secondary Road 1301 and 1.4 mi east, southeast of Castoria.

DRAINAGE AREA.--8.8 mi^2

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
15...	1400	--	195	6.0	10.5	764	.1	1	44	11.0	4.00	7.3	19
JAN													
18...	1045	--	131	6.3	8.3	770	--	--	39	10.0	3.30	7.5	26
FEB													
07...	1045	--	125	6.1	5.4	774	2.0	15	35	9.20	2.90	7.4	28
APR													
05...	1215	3.7	120	5.9	10.0	776	3.5	30	33	8.50	2.90	6.3	25
JUL													
10...	1215	--	189	6.1	22.8	760	.1	1	44	12.0	3.40	5.5	19

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
NOV													
15...	.5	18.0	2.2	27.0	.1	8.0	141	108	<.010	<.020	.310	1.2	.79
JAN													
18...	.5	6.90	5.6	21.0	.1	5.1	98	80	<.010	<.020	.080	.80	.51
FEB													
07...	.5	5.80	5.5	19.0	.1	2.6	108	68	<.010	<.020	<.010	--	--
APR													
05...	.5	5.40	8.9	16.0	.1	1.9	87	64	<.010	.670	.052	.73	.61
JUL													
10...	.4	6.50	1.4	15.0	.2	5.9	137	94	<.010	<.020	1.56	1.8	1.0

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV										
15...	1.5	1.1	--	--	.780	.460	.470	6700	190	16
JAN										
18...	.88	.59	--	--	.430	.180	.160	2800	100	9.7
FEB										
07...	.64	.47	--	--	.150	.070	.080	1300	40.0	10
APR										
05...	.78	.66	1.5	1.3	.070	.040	.050	620	17.0	11
JUL										
10...	3.4	2.6	--	--	1.30	.870	.900	12500	190	17

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC

LOCATION.--Lat 35°31'03", long 77°33'52", Greene County, Hydrologic Unit 03020203, at Secondary Road 1335, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.--0.34 mi^2

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
25...	1145	--	--	5.4	13.9	765	3.8	--	69	21.0	4.10	7.4	18
NOV													
14...	1230	--	211	5.5	12.8	--	1.2	--	60	18.0	3.60	6.1	17
DEC													
12...	1030	.17	210	5.3	10.6	767	5.1	46	72	20.0	5.30	10.0	21
JAN													
17...	1330	--	199	5.2	7.9	773	4.2	34	64	19.0	4.00	7.7	20
FEB													
06...	1415	.09	168	5.4	6.7	769	7.1	57	62	18.0	4.10	9.1	23
28...	1045	E.20	146	5.2	9.9	768	6.9	61	56	16.0	4.00	8.7	23
APR													
04...	1730	--	113	5.0	12.6	772	6.7	62	47	13.0	3.50	7.3	24
MAY													
07...	1400	<.10	215	5.4	16.0	776	4.3	42	70	20.0	4.80	7.4	18
JUN													
12...	1100	<.10	221	6.8	21.8	764	2.5	28	71	20.0	5.10	7.1	17
JUL													
11...	1035	<.10	238	5.6	23.5	760	.4	4	64	17.0	5.30	13.0	27
AUG													
15...	1215	--	288	5.0	23.7	766	3.9	46	59	16.0	4.60	11.0	25
SEP													
26...	1020	<.01	250	5.1	18.0	769	2.5	26	79	23.0	5.30	6.6	14

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
25...	.4	4.50	19.0	33.0	.2	11.0	149	122	3.27	.030	3.30	.110	.57
NOV													
14...	.3	5.60	16.0	29.0	.2	9.0	130	106	2.35	.050	2.40	.146	.83
DEC													
12...	.5	7.30	18.0	37.0	.2	8.2	161	147	--	<.010	8.60	.030	.71
JAN													
17...	.4	3.10	21.0	32.0	.3	9.2	146	119	3.79	.010	3.80	.026	.73
FEB													
06...	.5	3.50	19.0	30.0	.2	8.7	160	116	--	<.010	4.40	.025	.29
28...	.5	4.20	17.0	28.0	.2	7.5	143	114	--	<.010	5.60	.044	.65
APR													
04...	.5	3.60	13.0	23.0	.2	6.7	120	97	--	<.010	5.30	.039	.56
MAY													
07...	.4	3.30	15.0	34.0	.3	8.9	146	122	4.69	.010	4.70	.158	.56
JUN													
12...	.4	3.90	11.0	33.0	.3	8.4	166	125	6.78	.020	6.80	.138	.96
JUL													
11...	.7	8.50	11.0	43.0	.2	6.3	177	135	4.58	.020	4.60	.208	.79
AUG													
15...	.6	11.0	14.0	28.0	.2	7.9	202	130	--	<.010	7.00	.030	1.7
SEP													
26...	.3	8.40	15.0	36.0	.3	9.9	182	145	--	<.010	7.30	.070	.63

0209173150 UNNAMED TRIBUTARY TO SANDY RUN AT SECONDARY ROAD 1335 NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT											
25...	.18	.68	.29	4.0	3.6	.150	.030	<.010	460	89.0	2.0
NOV											
14...	.43	.98	.58	3.4	3.0	.280	.120	.100	220	76.0	15
DEC											
12...	.57	.74	.60	9.3	9.2	.040	<.020	.020	120	61.0	4.3
JAN											
17...	--	.76	<.20	4.6	--	.180	<.020	<.010	280	59.0	2.9
FEB											
06...	--	.32	<.20	4.7	--	.050	<.020	<.010	180	49.0	3.0
28...	.38	.69	.42	6.3	6.0	<.020	<.020	<.010	210	45.0	5.5
APR											
04...	.48	.60	.52	5.9	5.8	<.020	<.020	.020	300	37.0	8.3
MAY											
07...	.35	.72	.51	5.4	5.2	.110	<.020	<.010	440	69.0	5.2
JUN											
12...	.44	1.1	.58	7.9	7.4	.070	<.020	<.010	170	54.0	2.8
JUL											
11...	.44	1.0	.65	5.6	5.2	.080	<.020	<.010	220	43.0	7.3
AUG											
15...	1.2	1.7	1.2	8.7	8.2	.080	.020	.020	440	43.0	13
SEP											
26...	.43	.70	.50	8.0	7.8	.070	<.020	<.010	350	65.0	3.8

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'37", long 77°33'46", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.-- Aproximately 0.57 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 48.50 ft above sea level. Satellite telemetry at station.

REMARKS.--Records poor. 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. Beaver activity present throughout most of the year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.41	.02	.04	e.09	e.07	e.29	e.91	e.06	.72	e.48	e.09	.39
2	.37	.02	.06	e.09	e.06	e.29	e.80	e.05	1.7	e.46	e.06	2.6
3	.29	.02	e.05	e.08	e.06	e.32	e.59	e.05	e.80	e.44	e.06	e.80
4	.25	.02	e.04	e.08	e.19	e.91	e.46	e.05	e.59	.45	e.06	e.27
5	.21	.02	e.04	e.08	e.36	e.87	e.40	e.04	e.46	.99	e.06	e.12
6	.20	.02	e.04	e.08	.16	e.53	e.38	e.04	e.36	.69	e.06	e.12
7	.15	e.02	e.04	e.08	.12	e.40	e.34	e.04	e.27	e.46	e.06	e.12
8	.12	e.02	e.04	e.09	e.09	e.36	e.31	e.04	e.18	e.24	e.06	e.12
9	.10	e.02	e.04	e.09	e.07	e.36	e.29	e.04	e.11	e.15	e.06	e.36
10	.10	e.02	e.04	.07	e.06	e.36	e.26	e.02	e.07	.10	e.06	e.16
11	.08	e.02	e.18	.06	e.06	e.36	e.23	e.02	e.05	.10	e.08	e.08
12	.07	e.02	e.16	e.06	e.07	e.36	e.23	.02	e.03	.17	e1.1	e.04
13	.06	e.02	e.14	e.06	e.07	e.46	e.21	e.02	e.03	e.14	e.91	e.03
14	.06	.03	e.12	e.09	e.06	e.46	e.19	e.02	e.46	e.14	e1.1	e.02
15	.05	e.02	e.11	e.12	e.06	e.53	e.18	e.02	10	e.12	e.46	e.02
16	.05	e.02	e.09	e.11	e.06	e.48	e.16	.03	4.0	e.12	e.27	e.02
17	.05	e.02	e.11	e.11	e.32	e.46	e.15	e.02	3.9	e.12	e.16	e.02
18	.03	e.02	e.11	e.11	e.24	e.46	e.12	e.04	e1.5	e.12	.19	e.02
19	.02	e.26	e.11	.13	e.21	e.46	e.09	.01	e.91	e.12	.28	e.02
20	.02	e.05	e.11	.35	e.21	1.2	e.08	.02	e.59	e.11	e.21	e.02
21	.02	e.03	e.11	e.31	e.19	5.6	e.09	.07	e.36	e.11	e.16	e.02
22	.02	e.03	e.11	e.26	e.74	4.0	e.09	.08	e.29	e.11	e.14	e.02
23	.02	.03	e.09	e.23	e.44	e2.8	e.09	e.04	.37	e.11	e.11	e.02
24	.02	.03	e.09	e.18	e.36	e1.8	e.09	e.03	.44	e.16	e.08	e.46
25	.02	.07	e.09	e.15	e.34	e1.1	e.27	e.02	.41	e.14	e.06	e.36
26	.02	.37	e.09	e.14	e.32	e.64	e.19	.05	1.8	e.14	e.04	e.15
27	.02	e.12	e.09	e.12	e.32	e.42	e.16	.26	1.5	e1.1	e.03	e.12
28	.02	e.06	e.09	e.11	e.31	e.36	e.14	e.51	.87	e.74	.33	e.12
29	.01	e.06	e.09	e.11	---	e.80	e.11	e.34	.68	e.91	.28	e.11
30	.01	e.05	e.09	e.18	---	e.74	e.07	e.23	.55	e.74	.35	e.11
31	.02	---	e.09	e.09	---	e.53	---	e.21	---	e.27	.36	---
TOTAL	2.89	1.53	2.70	3.91	5.62	28.71	7.68	2.49	34.00	10.25	7.33	6.84
MEAN	.093	.051	.087	.13	.20	.93	.26	.080	1.13	.33	.24	.23
MAX	.41	.37	.18	.35	.74	5.6	.91	.51	10	1.1	1.1	2.6
MIN	.01	.02	.04	.06	.06	.29	.07	.01	.03	.10	.03	.02
CFSM	.16	.09	.15	.22	.35	1.62	.45	.14	1.99	.58	.41	.40
IN.	.19	.10	.18	.26	.37	1.87	.50	.16	2.22	.67	.48	.45

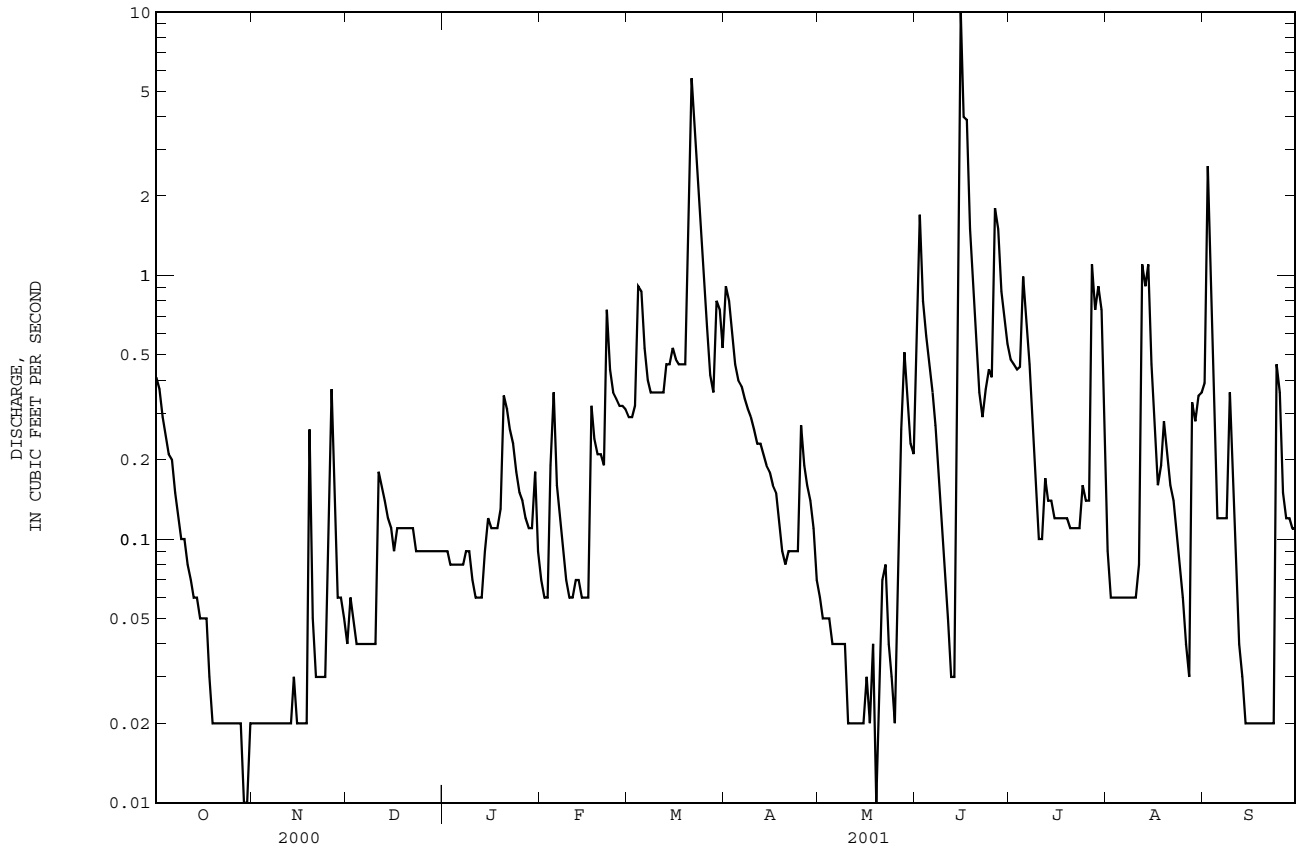
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	1.08	.24	.11	.20	.38	.61	.27	.13	.41	.13	.083	5.41
MAX	2.06	.43	.14	.28	.54	.93	.37	.21	1.13	.33	.24	15.4
(WY)	2000	2000	2000	2000	2000	2001	2000	1999	2001	2001	2001	1999
MIN	.093	.051	.087	.13	.20	.30	.18	.080	.018	.009	.002	.23
(WY)	2001	2001	2001	2001	2001	2000	1999	2001	2000	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	73.55		113.95			
ANNUAL MEAN	.20		.31		.36	
HIGHEST ANNUAL MEAN					.40	2000
LOWEST ANNUAL MEAN					.31	2001
HIGHEST DAILY MEAN	4.1	Sep 23	10	Jun 15	283	Sep 16 1999
LOWEST DAILY MEAN	.00	Jun 15	.01	Oct 29	.00	Jun 10 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jun 15	.02	Oct 24	.00	Jul 30 1999
MAXIMUM PEAK FLOW			37	Jun 15	500	Sep 16 1999
MAXIMUM PEAK STAGE			2.33	Jun 15	5.18	Sep 16 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		.00*	Jun 10 1999
ANNUAL RUNOFF (CFSM)	.35		.55		.63	
ANNUAL RUNOFF (INCHES)	4.80		7.44		8.52	
10 PERCENT EXCEEDS	.49		.66		.75	
50 PERCENT EXCEEDS	.05		.11		.11	
90 PERCENT EXCEEDS	.00		.02		.01	

e Estimated.
* See REMARKS.

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued



0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT													
25...	1045	--	.02	--	6.4	12.5	765	3.2	--	71	22.0	4.00	15.0
NOV													
14...	1130	--	.04	290	6.5	11.6	--	2.5	--	68	21.0	3.80	14.0
DEC													
12...	1115	E.16	--	263	5.8	8.3	767	6.2	52	68	20.0	4.40	11.0
JAN													
17...	1215	E.11	--	230	5.7	7.2	774	3.9	32	59	18.0	3.40	10.0
FEB													
06...	1500	--	.14	213	5.8	7.1	769	7.2	59	60	18.0	3.60	10.0
28...	1145	E.31	--	227	5.6	9.2	768	6.3	55	62	18.0	4.20	11.0
APR													
04...	1630	E.46	--	221	5.4	11.1	773	6.8	61	60	17.0	4.30	10.0
MAY													
07...	1700	E.04	--	200	5.2	14.7	775	4.7	45	46	14.0	2.80	12.0
JUN													
12...	1315	E.03	--	206	5.4	20.7	764	.3	4	48	14.0	3.10	10.0
JUL													
11...	0945	--	.11	226	5.7	22.9	760	.1	0	55	16.0	3.70	12.0
AUG													
15...	1010	E.46	--	184	5.5	23.0	767	3.1	36	43	12.0	3.20	8.4
SEP													
26...	0935	E.15	--	249	5.8	17.4	770	2.1	22	--	--	--	--

DATE	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
25...	28	.8	10.0	11.0	40.0	.2	7.2	179	143	4.70	.100	4.80	6.80
NOV													
14...	27	.7	10.0	9.3	37.0	.2	7.1	166	156	1.70	.200	1.90	6.50
DEC													
12...	24	.6	6.50	16.0	35.0	.2	7.9	165	139	5.26	.040	5.30	1.88
JAN													
17...	25	.6	4.90	15.0	34.0	.2	7.3	147	124	2.32	.080	2.40	2.24
FEB													
06...	25	.6	4.60	15.0	33.0	.2	7.5	161	119	2.53	.070	2.60	1.45
28...	26	.6	5.30	14.0	33.0	.2	6.9	166	125	6.05	.050	6.10	.570
APR													
04...	24	.6	5.60	13.0	30.0	.2	6.5	150	127	7.56	.040	7.60	.667
MAY													
07...	33	.8	4.50	11.0	39.0	.2	7.0	124	103	.090	.010	.100	1.35
JUN													
12...	29	.6	5.30	10.0	35.0	.2	7.3	158	106	.080	.010	.090	1.87
JUL													
11...	29	.7	7.50	8.9	37.0	.2	6.5	147	119	--	<.010	1.70	.100
AUG													
15...	25	.6	9.50	12.0	24.0	.2	6.3	153	104	3.66	.040	3.70	.810
SEP													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
OCT													
25...	1.0	.90	7.8	7.7	13	12	.060	.020	<.010	120	44.0	-26.02	-4.50
NOV													
14...	.40	.30	6.9	6.8	8.8	8.7	.080	.020	.020	340	79.0	-24.96	-4.56
DEC													
12...	.22	.32	2.1	2.2	7.4	7.5	.030	<.020	.020	360	79.0	-27.74	-5.07
JAN													
17...	.36	.16	2.6	2.4	5.0	4.8	.080	<.020	<.010	540	82.0	-27.09	-4.87
FEB													
06...	.15	.15	1.6	1.6	4.2	4.2	.030	<.020	<.010	520	75.0	-25.85	-4.82
28...	.63	.53	1.2	1.1	7.3	7.2	.030	<.020	<.010	380	68.0	-27.59	-4.70
APR													
04...	.63	.53	1.3	1.2	8.9	8.8	.030	<.020	.020	360	65.0	--	--
MAY													
07...	.65	.15	2.0	1.5	2.1	1.6	.110	<.020	<.010	880	130	--	--
JUN													
12...	.83	.63	2.7	2.5	2.8	2.6	.140	.080	.090	3800	150	--	--
JUL													
11...	4.9	.30	5.0	.40	6.7	2.1	.860	<.020	<.010	1730	104	--	--
AUG													
15...	1.3	.99	2.1	1.8	5.8	5.5	.150	.060	.050	870	60.0	--	--
SEP													
26...	--	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	ALA-CHLOR, WATER, DISS, REC, (UG/L) (46342)	ATRA-ZINE, WATER, DISS, REC (UG/L) (39632)	BEN-FLUR-ALIN WAT FLD 0.7 U GF, REC (UG/L) (82673)	BUTYL-ATE, WATER, DISS, REC (UG/L) (04028)	CHLOR-PYRIFOS DIS-SOLVED (UG/L) (38933)	CYANA-ZINE, WATER, DISS, REC (UG/L) (04041)	DCPA WATER FLTRD 0.7 U GF, REC (UG/L) (82682)	P,P' DDE DISSOLV (UG/L) (34653)	DI-AZINON, DIS-SOLVED (UG/L) (39572)	DI-ELDRIN DIS-SOLVED (UG/L) (39381)	2,6-DI-ETHYL ANILINE WAT FLT 0.7 U GF, REC (UG/L) (82660)	DISUL-FOTON WATER FLTRD 0.7 U GF, REC (UG/L) (82677)
OCT													
25...	4.3	<.002	<.007	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
NOV													
14...	6.6	<.002	<.007	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
DEC													
12...	6.0	<.002	E.003	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
JAN													
17...	14	<.002	E.004	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
FEB													
06...	3.5	<.002	<.007	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
28...	5.5	<.002	E.004	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
APR													
04...	7.2	<.002	.011	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
MAY													
07...	6.0	.017	.038	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
JUN													
12...	8.9	.067	.784	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	E.001	<.021
JUL													
11...	10	<.008	.354	<.010	<.002	E.004	<.018	<.003	<.003	<.005	<.005	<.002	<.021
AUG													
15...	13	<.002	.571	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021
SEP													
26...	--	<.002	.063	<.010	<.002	<.005	<.018	<.003	<.003	<.005	<.005	<.002	<.021

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WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	EPTC WATER FLTRD 0.7 U GF, REC (UG/L) (82668)	ETHAL-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82663)	ETHO-PROP WATER FLTRD 0.7 U GF, REC (UG/L) (82672)	FONOFOS WATER DISS REC (UG/L) (04095)	ALPHA BHC DIS-SOLVED (UG/L) (34253)	LINDANE DIS-SOLVED (UG/L) (39341)	LIN-URON WATER FLTRD 0.7 U GF, REC (UG/L) (82666)	MALA-THION, DIS-SOLVED (UG/L) (39532)	METO-LACHLOR WATER DISSOLV (UG/L) (39415)	METRI-BUZIN SENCOR WATER DISSOLV (UG/L) (82630)	MOL-INATE WATER FLTRD 0.7 U GF, REC (UG/L) (82671)	NAPROP-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82684)	PARA-THION, DIS-SOLVED (UG/L) (39542)
OCT													
25...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	<.017	<.006	<.002	<.007	<.007
NOV													
14...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007
DEC													
12...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007
JAN													
17...	<.002	<.009	<.005	<.010	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007
FEB													
06...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	<.013	<.006	<.002	<.007	<.007
28...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	E.002	<.006	<.002	<.007	<.007
APR													
04...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	E.004	<.006	<.004	<.007	<.007
MAY													
07...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	.020	<.006	<.002	<.007	<.007
JUN													
12...	E.001	<.009	<.005	<.003	<.005	<.004	<.035	<.027	1.40	<.006	<.002	<.007	<.007
JUL													
11...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	.511	<.006	<.002	<.007	<.007
AUG													
15...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	.682	<.006	<.002	<.007	<.007
SEP													
26...	<.002	<.009	<.005	<.003	<.005	<.004	<.035	<.027	.076	<.006	<.002	<.007	<.007

DATE	METHYL PARA-THION WAT FLT 0.7 U GF, REC (UG/L) (82667)	PEB-ULATE WATER FILTRD 0.7 U GF, REC (UG/L) (82669)	PENDI-METH-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82683)	PER-METHRIN CIS WAT FLT 0.7 U GF, REC (UG/L) (82687)	PHORATE WATER FLTRD 0.7 U GF, REC (UG/L) (82664)	PRON-AMIDE WATER FLTRD 0.7 U GF, REC (UG/L) (82676)	PRO-METON, WATER, DISS, REC (UG/L) (04037)	PROPA-CHLOR, WATER, DISS, REC (UG/L) (04024)	PRO-PANIL WATER FLTRD 0.7 U GF, REC (UG/L) (82679)	PRO-PARGITE WATER FLTRD 0.7 U GF, REC (UG/L) (82685)	SI-MAZINE, WATER, DISS, REC (UG/L) (04035)	THIO-BENCARB WATER FLTRD 0.7 U GF, REC (UG/L) (82681)	TEBU-THIURON WATER FLTRD 0.7 U GF, REC (UG/L) (82670)
OCT													
25...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
NOV													
14...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
DEC													
12...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
JAN													
17...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
FEB													
06...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
28...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
APR													
04...	<.006	<.002	E.012	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	E.005
MAY													
07...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
JUN													
12...	<.006	<.002	<.010	<.006	<.011	<.004	E.003	<.010	<.011	<.023	<.011	<.005	<.016
JUL													
11...	<.006	<.002	<.010	<.006	<.011	<.004	E.004	<.010	<.011	<.023	<.011	<.005	<.016
AUG													
15...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016
SEP													
26...	<.006	<.002	<.010	<.006	<.011	<.004	<.015	<.010	<.011	<.023	<.011	<.005	<.016

0209173190 UNNAMED TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TER-BUFOS WATER FLTRD 0.7 U GF, REC (UG/L) (82675)	TRIAL-LATE WATER FLTRD 0.7 U GF, REC (UG/L) (82678)	TRI-FLUR-ALIN WAT FLT 0.7 U GF, REC (UG/L) (82661)	DEETHYL ATRA-ZINE, WATER, DISS, REC (UG/L) (04040)	METHYL AZIN-PHOS WAT FLT 0.7 U GF, REC (UG/L) (82686)	CAR-BARYL WATER FLTRD 0.7 U GF, REC (UG/L) (82680)	CARBO-FURAN WATER FLTRD 0.7 U GF, REC (UG/L) (82674)	TER-BACIL WATER FLTRD 0.7 U GF, REC (UG/L) (82665)	ACETO-CHLOR, WATER FLTRD REC (UG/L) (49260)
OCT									
25...	<.017	<.002	<.009	E.005	<.050	<.041	<.020	<.034	<.004
NOV									
14...	.030	<.002	<.009	<.006	<.050	<.041	<.020	<.034	<.004
DEC									
12...	<.017	<.002	<.009	<.006	<.050	<.041	<.020	<.034	<.004
JAN									
17...	<.017	<.002	<.009	<.006	E.023	<.041	<.020	<.034	<.004
FEB									
06...	<.017	<.002	<.009	E.002	<.050	<.041	<.020	<.034	<.004
28...	<.017	<.002	<.009	E.004	<.050	<.041	<.020	<.034	<.004
APR									
04...	<.017	<.002	<.009	E.003	<.050	<.041	<.020	<.034	<.004
MAY									
07...	<.017	<.002	<.009	E.004	<.050	<.041	<.020	<.034	<.004
JUN									
12...	<.017	<.002	<.009	E.079	<.050	<.041	<.020	<.034	<.004
JUL									
11...	<.017	<.002	<.009	E.010	<.050	<.041	<.020	<.034	<.004
AUG									
15...	<.017	<.002	<.009	E.022	<.050	<.041	<.020	<.034	<.004
SEP									
26...	<.017	<.002	<.009	E.007	<.050	<.041	<.020	<.034	<.004

0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'37", long 77°33'46", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

DRAINAGE AREA.-- Approximately 0.02 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum instantaneous discharge for period of record not determined. No flow occurs many days each year.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.01	.00	.00	.00	.00	.00	e.02	.00	.00	e.04	.00	.01
2	.01	.00	.00	.00	.00	.00	e.02	.00	.01	e.04	.00	.10
3	.00	.00	.00	.00	.00	.00	e.04	.00	.00	e.03	.00	e.07
4	.00	.00	.00	.00	.00	.00	.04	.00	.00	e.02	.00	e.04
5	.00	.00	.00	.00	.00	.00	.03	.00	.00	e.10	.00	.02
6	.00	.00	.00	.00	.00	.00	.03	.00	.00	e.04	.00	.01
7	.00	.00	.00	.00	.00	.00	.03	.00	.00	e.02	.00	.00
8	.00	.00	.00	.00	.00	.00	.02	.00	.00	e.02	.00	.00
9	.00	.00	.00	.00	.00	.00	.02	.00	.00	e.02	.00	.01
10	.00	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.01
11	.00	.00	.00	.00	.00	.00	e.01	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	e.01	.00	.00	.00	.02	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.28	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.90	.00	.05	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.56	.00	e.04	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.82	.00	e.03	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	e.24	.00	.02	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	e.15	.00	.03	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	e.08	.00	.02	.00
21	.00	.00	.00	.00	.00	.15	.00	.00	.04	.00	.02	.00
22	.00	.00	.00	.00	.00	e.07	.00	.00	.03	.00	.01	.00
23	.00	.00	.00	.00	.00	e.04	.00	.00	.03	.00	.01	.00
24	.00	.00	.00	.00	.00	e.02	.00	.00	.03	.00	.01	.00
25	.00	.00	.00	.00	.00	e.00	.00	.00	.02	.00	.01	.00
26	.00	.00	.00	.00	.00	e.00	.00	.00	.32	.00	.01	.00
27	.00	.00	.00	.00	.00	e.01	.00	.00	.19	.00	.01	.00
28	.00	.00	.00	.00	.00	e.01	.00	.00	.08	.00	.01	.00
29	.00	.00	.00	.00	---	e.02	.00	.00	.05	.00	.01	.00
30	.00	.00	.00	.00	---	e.02	.00	.00	e.04	.00	.01	.00
31	.00	---	.00	.00	---	e.02	---	.00	---	.00	.01	---
TOTAL	0.02	0.00	0.00	0.00	0.00	0.36	0.28	0.00	3.59	0.33	0.67	0.27
MEAN	.001	.000	.000	.000	.000	.012	.009	.000	.12	.011	.022	.009
MAX	.01	.00	.00	.00	.00	.15	.04	.00	.90	.10	.28	.10
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
CFSM	.03	.00	.00	.00	.00	.58	.47	.00	5.98	.53	1.08	.45
IN.	.04	.00	.00	.00	.00	.67	.52	.00	6.68	.61	1.25	.50

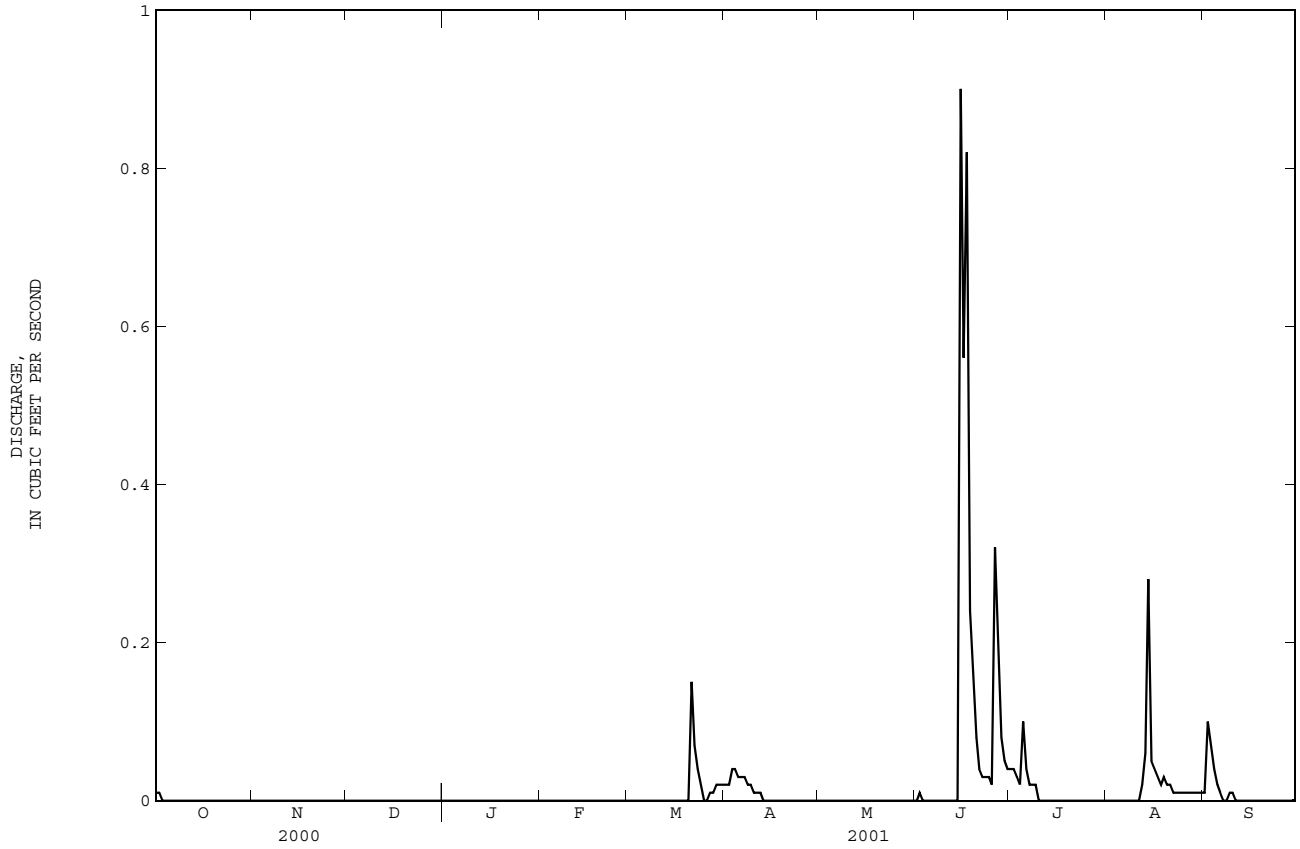
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	.27	.018	.006	.050	.036	.019	.012	.002	.040	.004	.007	.29
MAX	.53	.037	.012	.10	.071	.026	.023	.005	.12	.011	.022	.81
(WY)	2000	2000	2000	2000	2000	2000	2000	1999	2001	2001	2001	1999
MIN	.001	.000	.000	.000	.000	.012	.004	.000	.000	.000	.000	.009
(WY)	2001	2001	2001	2001	2001	2001	1999	2001	2000	1999	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	7.81		5.52			
ANNUAL MEAN	.021		.015		.043	
HIGHEST ANNUAL MEAN					.070	2000
LOWEST ANNUAL MEAN					.015	2001
HIGHEST DAILY MEAN	.60	Jan 25	.90	Jun 15	14	Oct 17 1999
LOWEST DAILY MEAN	.00	Apr 2	.00	Oct 3	.00	Mar 19 1999
ANNUAL SEVEN-DAY MINIMUM	.00	May 7	.00	Oct 3	.00	Mar 29 1999
MAXIMUM PEAK FLOW			4.3	Jun 16	NOT DETERMINED	
MAXIMUM PEAK STAGE			1.40	Jun 16	4.43	Sep 16 1999
INSTANTANEOUS LOW FLOW			.00*	Oct 2	.00*	Apr 1 1999
ANNUAL RUNOFF (CFSM)	1.07		.76		2.14	
ANNUAL RUNOFF (INCHES)	14.53		10.27		29.01	
10 PERCENT EXCEEDS	.05		.03		.06	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

e Estimated.
* See REMARKS.

0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued



0209173192 DRAINAGE DITCH TO TRIBUTARY TO SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
14...	1115	.001	168	7.0	12.2	--	4.6	--	51	13.0	4.40	3.8	12
DEC													
12...	1130	.002	158	5.2	10.7	767	4.6	42	43	11.0	3.80	4.9	17
JAN													
17...	1230	.001	172	5.2	8.1	774	7.1	59	53	14.0	4.50	4.1	13
FEB													
06...	1445	.001	165	5.1	9.3	769	7.5	65	50	13.0	4.30	4.3	14
28...	1130	.00	154	5.3	9.7	768	8.0	70	43	11.0	3.80	5.1	18
APR													
04...	1645	.04	178	5.6	11.8	773	9.0	82	48	11.0	4.90	5.6	17
JUL													
11...	0955	.001	153	5.8	22.1	760	5.2	60	39	9.50	3.60	5.1	19
AUG													
15...	1020	.06	170	5.8	22.7	767	6.8	79	37	8.70	3.80	7.2	21
SEP													
26...	0930	.003	152	5.7	14.8	770	7.3	71	41	10.0	3.90	5.4	19

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
NOV													
14...	.2	8.90	4.1	18.0	.2	10.0	113	96	4.00	.100	4.10	.160	1.2
DEC													
12...	.3	5.70	5.1	23.0	.2	9.4	102	91	--	<.010	5.00	.040	.50
JAN													
17...	.2	5.40	4.0	20.0	.2	11.0	137	110	9.38	.020	9.40	.020	--
FEB													
06...	.3	5.20	4.3	21.0	.2	10.0	131	97	6.99	.010	7.00	.032	.58
28...	.3	5.50	5.6	24.0	.1	7.6	115	89	--	<.010	5.20	.033	1.9
APR													
04...	.4	8.30	10.0	28.0	.1	6.5	115	98	--	<.010	4.00	.028	.39
JUL													
11...	.4	7.20	5.7	26.0	.2	8.2	108	80	.880	.070	.950	1.80	.90
AUG													
15...	.5	16.0	9.0	30.0	.2	7.4	130	97	--	<.010	.950	.070	.93
SEP													
26...	.4	7.80	5.1	28.0	.1	8.5	111	84	--	<.010	1.70	.130	1.1

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV													
14...	.39	1.4	.55	5.5	4.6	.210	.060	.050	80	48.0	-27.12	-5.10	4.2
DEC													
12...	.24	.54	.28	5.5	5.3	.040	<.020	.010	140	60.0	-29.59	-5.25	3.3
JAN													
17...	--	<.20	<.20	--	--	<.020	<.020	<.010	50	73.0	-31.24	-5.30	1.6
FEB													
06...	--	.61	<.20	7.6	--	.020	<.020	<.010	70	61.0	-26.97	-5.24	1.6
28...	--	1.9	<.20	7.1	--	.220	<.020	<.010	50	50.0	-29.31	-5.20	3.0
APR													
04...	.29	.42	.32	4.4	4.3	<.020	<.020	.020	90	40.0	--	--	3.5
JUL													
11...	.70	2.7	2.5	3.7	3.5	.090	.040	.030	260	137	--	--	7.9
AUG													
15...	.83	1.0	.90	1.9	1.9	.120	.060	.050	340	54.0	--	--	8.4
SEP													
26...	.17	1.2	.30	2.9	2.0	.150	<.020	<.010	100	64.0	--	--	3.5

0209173196 WEATHER STATION NEAR LIZZIE, NC

LOCATION.--LOCATION.--Lat 35°31'30", long 77°33'42", Greene County, Hydrologic Unit 03020203, Everet Murphy's farm, approximately 6.0 mi south of Farmville.

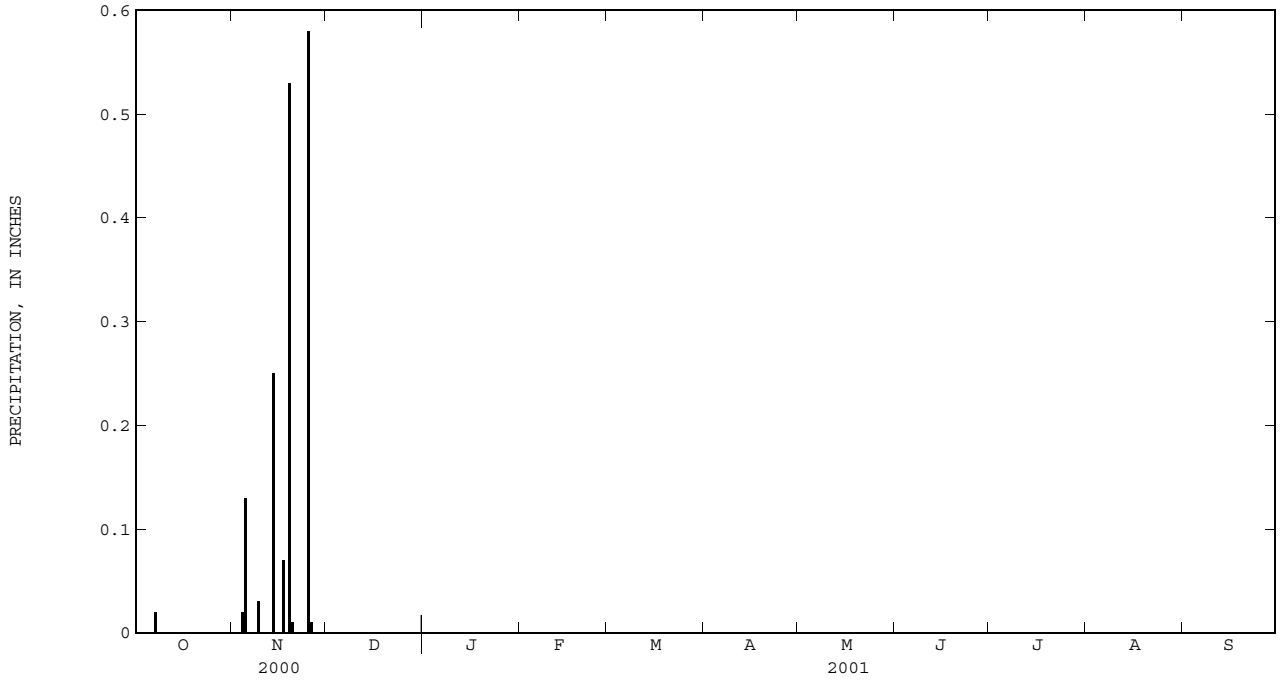
PERIOD OF RECORD.--March 1999 to November 2000 (discontinued).

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipition gage is operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Equipment relocated approximately 0.3 mi northeast of current site, November 28, 2000. Now published as station number 353137077332801.

PRECIPITATION, TOTAL, INCHES, WATER YEAR OCTOBER 2000 TO NOVEMBER 2000
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	---	---	---	---	---	---	---	---	---	---
2	.00	.00	---	---	---	---	---	---	---	---	---	---
3	.00	.00	---	---	---	---	---	---	---	---	---	---
4	.00	.02	---	---	---	---	---	---	---	---	---	---
5	.00	.13	---	---	---	---	---	---	---	---	---	---
6	.00	.00	---	---	---	---	---	---	---	---	---	---
7	.02	.00	---	---	---	---	---	---	---	---	---	---
8	.00	.00	---	---	---	---	---	---	---	---	---	---
9	.00	.03	---	---	---	---	---	---	---	---	---	---
10	.00	.00	---	---	---	---	---	---	---	---	---	---
11	.00	.00	---	---	---	---	---	---	---	---	---	---
12	.00	.00	---	---	---	---	---	---	---	---	---	---
13	.00	.00	---	---	---	---	---	---	---	---	---	---
14	.00	.25	---	---	---	---	---	---	---	---	---	---
15	.00	.00	---	---	---	---	---	---	---	---	---	---
16	.00	.00	---	---	---	---	---	---	---	---	---	---
17	.00	.07	---	---	---	---	---	---	---	---	---	---
18	.00	.00	---	---	---	---	---	---	---	---	---	---
19	.00	.53	---	---	---	---	---	---	---	---	---	---
20	.00	.01	---	---	---	---	---	---	---	---	---	---
21	.00	.00	---	---	---	---	---	---	---	---	---	---
22	.00	.00	---	---	---	---	---	---	---	---	---	---
23	.00	.00	---	---	---	---	---	---	---	---	---	---
24	.00	.00	---	---	---	---	---	---	---	---	---	---
25	.00	.58	---	---	---	---	---	---	---	---	---	---
26	.00	.01	---	---	---	---	---	---	---	---	---	---
27	.00	.00	---	---	---	---	---	---	---	---	---	---
28	.00	.00	---	---	---	---	---	---	---	---	---	---
29	.00	---	---	---	---	---	---	---	---	---	---	---
30	.00	---	---	---	---	---	---	---	---	---	---	---
31	.00	---	---	---	---	---	---	---	---	---	---	---
TOTAL	0.02	---	---	---	---	---	---	---	---	---	---	---



353137077332801 WEATHER STATION #2 NEAR LIZZIE, NC

LOCATION.--Lat 35°31'37", long 77°33'28", Greene County, Hydrologic Unit 03020203, approximately 6.0 mi south of Farmville.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Formerly published as station number, 0209173196. Station moved December 13, 2000.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	ENDING TIME	PRECIP-ITATION TOTAL INCHES (00045)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
DEC 13 2000-FEB 06 2001	1212	1350	1.34	17	5.9	0	.14	.041	.3	55	.2	.03	1.4
FEB 06-27	1355	1640	1.42	17	5.1	0	.11	.061	.5	66	.3	.01	1.6
FEB 27-MAR 07	1700	1000	.67	25	4.3	--	--	--	--	--	--	--	--
MAR 07-APR 04	1015	1815	2.73	12	4.6	0	.10	.073	.6	69	.4	.04	1.2
APR 04-MAY 07	1830	1645	.50	25	5.0	--	--	--	--	--	--	--	--
MAY 07-JUN 12	1700	1300	4.89	--	5.3	0	.10	.008	E.1	--	--	.01	2.0
JUN 12-JUL 11	1315	1150	7.83	7	4.6	--	.04	<.008	.1	--	--	<.01	.9
JUL 11-AUG 15	1200	1330	6.71	10	--	0	.08	.015	.1	41	.1	.03	1.6
AUG 15-SEP 26	1345	1125	4.33	16	3.9	--	--	--	--	--	--	--	--
SEP 26-OCT 30	1145	1005	1.07	6	7.0	--	--	--	--	--	--	--	--

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
DEC 13 2000-FEB 06 2001	.6	M	<.01	.186	.003	.189	.226	<.007
FEB 06-27	1.1	M	<.01	.220	.002	.222	.179	<.007
FEB 27-MAR 07	--	--	--	--	--	--	--	--
MAR 07-APR 04	1.1	<.01	<.01	.169	.002	.171	.242	<.007
APR 04-MAY 07	--	--	--	--	--	--	--	--
MAY 07-JUN 12	.2	<.01	<.01	--	<.001	.288	.358	<.007
JUN 12-JUL 11	.2	M	<.01	.116	.002	.118	.130	<.007
JUL 11-AUG 15	.2	M	<.01	.233	.002	.235	.447	<.007
AUG 15-SEP 26	--	--	--	--	<.001	.226	.316	<.007
SEP 26-OCT 30	--	--	--	--	--	--	--	--

353137077332801 WEATHER STATION #2 NEAR LIZZIE, NC--Continued

PRECIPITATION RECORDS

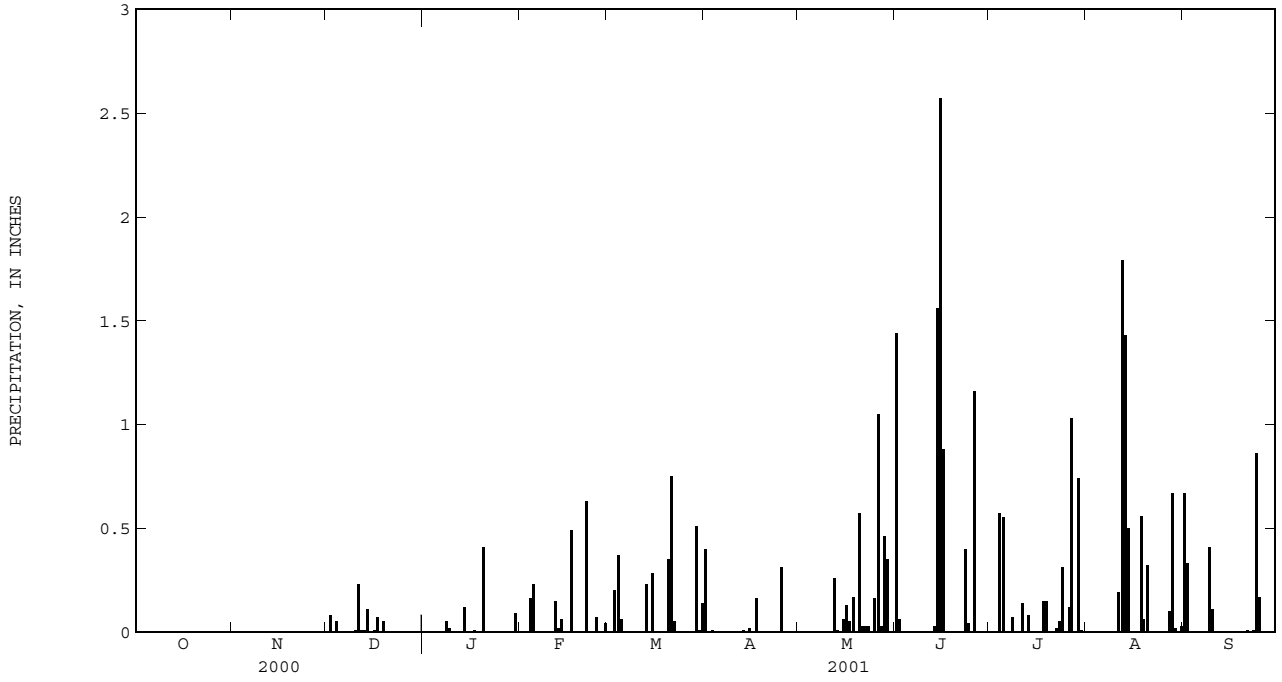
PERIOD OF RECORD.--November 2000 to September 2001.

INSTRUMENTATION.--Tipping-bucket raingage and data collection platform.

REMARKS.--Precipition gage is operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES, WATER YEAR NOVEMBER 2000 TO SEPTEMBER 2001
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	.00	.00	.00	.00	.40	.00	1.44	.00	.00	.67
2	---	---	.08	.00	.00	.00	.00	.00	.06	.00	.00	.33
3	---	---	.00	.00	.00	.20	.01	.00	.00	.00	.00	.00
4	---	---	.05	.00	.16	.37	.00	.00	.00	.57	.00	.00
5	---	---	.00	.00	.23	.06	.00	.00	.00	.55	.00	.00
6	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
7	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	---	---	.00	.05	.00	.00	.00	.00	.00	.07	.00	.00
9	---	---	.00	.02	.00	.00	.00	.00	.00	.00	.00	.41
10	---	---	.01	.00	.00	.00	.00	.00	.00	.00	.00	.11
11	---	---	.23	.00	.00	.00	.00	.00	.00	.14	.19	.00
12	---	---	.01	.00	.15	.00	.00	.26	.00	.00	1.79	.00
13	---	---	.01	.00	.02	.23	.01	.01	.03	.08	1.43	.00
14	---	---	.11	.12	.06	.00	.00	.00	1.56	.00	.50	.00
15	---	---	.00	.00	.00	.28	.02	.06	2.57	.00	.00	.00
16	---	---	.01	.00	.00	.00	.00	.13	.88	.00	.00	.00
17	---	---	.07	.01	.49	.00	.16	.05	.00	.00	.00	.00
18	---	---	.00	.00	.00	.00	.00	.17	.00	.15	.56	.00
19	---	---	.05	.00	.00	.00	.00	.00	.00	.15	.06	.00
20	---	---	.00	.41	.00	.35	.00	.57	.00	.00	.32	.00
21	---	---	.00	.00	.00	.75	.00	.03	.00	.00	.00	.01
22	---	---	.00	.00	.63	.05	.00	.03	.00	.02	.00	.00
23	---	---	.00	.00	.00	.00	.00	.03	.40	.05	.00	.01
24	---	---	.00	.00	.00	.00	.00	.00	.04	.31	.00	.86
25	---	---	.00	.00	.07	.00	.31	.16	.00	.00	.00	.17
26	---	---	.00	.00	.00	.00	.00	1.05	1.16	.12	.00	.00
27	---	---	.00	.00	.00	.00	.00	.03	.00	1.03	.10	.00
28	---	---	.00	.00	.04	.00	.00	.46	.00	.00	.67	.00
29	---	.00	.00	.00	---	.51	.00	.35	.00	.74	.02	.00
30	---	.00	.00	.09	---	.01	.00	.00	.00	.01	.00	.00
31	---	---	.00	.00	---	.14	---	.00	---	.00	.03	---
TOTAL	---	---	0.63	0.70	1.85	2.95	0.91	3.39	8.14	3.99	5.67	2.57



0209173200 SANDY RUN NEAR LIZZIE, NC

LOCATION.--Lat 35°31'53", long 77°33'32", Greene County, Hydrologic Unit 03020203, at bridge on Secondary Road 1345, 0.2 mi above mouth and 4.0 mi northeast of Lizzie.

DRAINAGE AREA.--Approximately 29.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 36.44 ft above sea level.

REMARKS.--Records fair above 10 ft^3/s except those for estimated daily discharges and discharges below 10 ft^3/s, which are poor. Maximum gage height for period probably occurred on Sept. 17, 1999. Maximum gage height for period from floodmarks. Minimum instantaneous flow for period is not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.7	.98	1.7	e1.3	1.8	6.6	42	.65	8.2	4.6	e3.0	2.6
2	5.3	1.1	1.3	1.3	1.3	3.9	66	e.60	42	4.1	e2.5	6.0
3	4.5	.99	1.5	1.4	1.6	2.1	66	e.60	47	1.6	e1.5	e4.0
4	4.5	.97	1.8	e1.4	1.3	17	50	.47	27	1.8	1.2	e3.5
5	4.7	1.3	1.8	e1.4	1.8	42	36	.57	15	4.1	.74	3.5
6	4.9	1.1	1.9	e1.3	2.1	e47	27	e.70	7.6	7.2	.43	3.4
7	4.4	1.0	1.8	1.2	2.0	e32	e21	.38	e4.0	4.8	.34	2.9
8	3.4	.79	1.9	1.3	2.2	14	e20	.33	e3.0	3.7	.36	2.5
9	3.8	1.4	2.0	1.4	2.4	10	e16	.35	3.5	3.7	.41	e2.5
10	3.5	2.2	2.1	1.1	2.5	6.8	e14	.40	3.4	e3.0	.45	e3.0
11	3.3	1.4	2.0	1.2	1.8	5.7	e12	e.40	3.0	e2.5	.44	e2.5
12	3.1	1.1	2.1	1.4	1.5	4.0	e10	e.40	1.8	e2.5	5.4	e2.0
13	e3.2	1.2	2.1	1.3	1.7	4.3	9.7	e.40	1.6	e2.0	4.2	e1.8
14	e2.8	1.3	1.9	1.5	1.8	3.9	6.3	e.35	7.5	e1.5	20	e1.4
15	e2.2	1.2	2.6	3.2	2.4	2.2	4.8	.29	69	e1.5	30	e1.1
16	e2.0	1.2	4.5	2.1	3.2	6.4	4.8	.17	129	1.2	20	e.80
17	e1.8	1.0	2.0	1.6	9.9	7.0	2.0	.19	153	.95	18	e.60
18	e1.7	1.0	2.6	1.4	16	5.0	3.4	e.25	115	.66	12	e.50
19	e1.7	1.2	3.2	1.3	8.5	4.2	2.9	e.30	71	.39	11	e.40
20	e1.6	1.4	2.5	3.3	5.0	1.9	4.2	e.40	44	.65	15	e.40
21	1.5	1.7	1.9	2.4	3.0	87	2.6	e.50	21	.44	16	e.30
22	1.4	1.6	1.7	1.8	8.3	160	e3.0	e.40	10	.38	11	e.30
23	1.4	1.3	1.9	1.5	28	92	e2.0	e.40	4.5	.29	4.3	e.30
24	e1.5	1.5	2.2	1.5	25	66	e1.9	.32	3.0	.34	3.5	e.40
25	1.4	1.9	1.7	1.4	14	46	2.0	e.30	4.5	e.50	e3.5	e.70
26	e1.6	3.2	1.6	1.4	14	34	e3.0	e.40	9.0	e.50	3.5	e.60
27	e1.6	4.5	1.5	1.5	12	24	e3.0	.43	7.2	e.60	e2.5	e.50
28	1.4	15	1.5	1.5	6.8	18	e3.0	1.7	8.0	e1.0	2.8	e.50
29	1.3	12	1.5	1.5	---	19	e2.0	13	6.7	e.80	e3.5	e.45
30	1.2	3.6	1.4	1.6	---	33	1.4	16	5.5	3.3	2.5	.40
31	e1.2	---	e1.3	1.6	---	39	---	12	---	e3.0	2.4	---
TOTAL	84.6	70.13	61.5	49.1	181.9	844.0	442.0	53.65	835.0	63.60	202.47	49.85
MEAN	2.73	2.34	1.98	1.58	6.50	27.2	14.7	1.73	27.8	2.05	6.53	1.66
MAX	6.7	15	4.5	3.3	28	160	66	16	153	7.2	30	6.0
MIN	1.2	.79	1.3	1.1	1.3	1.9	1.4	.17	1.6	.29	.34	.30
CFSM	.10	.08	.07	.06	.23	.95	.52	.06	.97	.07	.23	.06
IN.	.11	.09	.08	.06	.24	1.10	.57	.07	1.09	.08	.26	.06

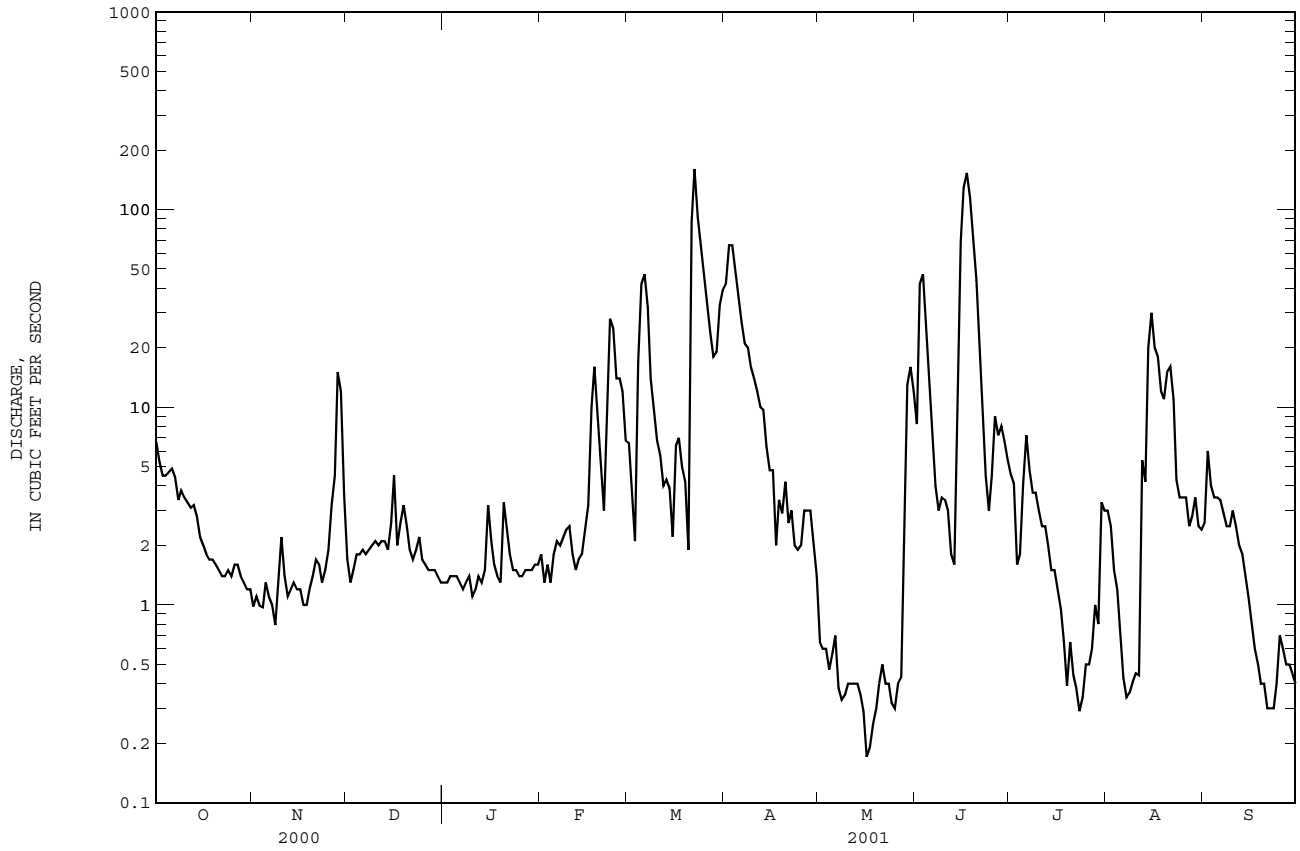
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	50.4	13.2	5.54	28.0	32.7	25.0	17.4	10.5	13.1	1.87	3.32	107
MAX	98.0	24.1	9.10	54.4	57.9	27.2	24.5	22.1	27.8	2.47	6.53	274
(WY)	2000	2000	2000	2000	2000	2001	2000	1999	2001	1999	2001	1999
MIN	2.73	2.34	1.98	1.58	6.50	22.7	12.8	1.73	1.03	1.09	.11	1.66
(WY)	2001	2001	2001	2001	2001	2000	1999	2001	2000	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	6815.75		2937.80			
ANNUAL MEAN	18.6		8.05		18.6	
HIGHEST ANNUAL MEAN					29.1	2000
LOWEST ANNUAL MEAN					8.05	2001
HIGHEST DAILY MEAN	262	Sep 24	160	Mar 22	1760	Sep 17 1999
LOWEST DAILY MEAN	.10	Jun 17	.17	May 16	.03	Aug 28 1999
ANNUAL SEVEN-DAY MINIMUM	.11	Jun 16	.28	May 13	.05	Aug 23 1999
MAXIMUM PEAK FLOW			207	Mar 22	e3960	Sep 17 1999
MAXIMUM PEAK STAGE			6.49	Jun 17	16.32*	Sep 17 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED		NOT DETERMINED	
ANNUAL RUNOFF (CFSM)	.65		.28		.65	
ANNUAL RUNOFF (INCHES)	8.87		3.82		8.83	
10 PERCENT EXCEEDS	60		18		55	
50 PERCENT EXCEEDS	3.3		2.0		3.8	
90 PERCENT EXCEEDS	.50		.44		.39	

e Estimated.
* See REMARKS.

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued



0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: April 1999 to current year.

WATER TEMPERATURE: 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 U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). The water-quality monitor was inundated by floodwaters from Hurricane Floyd on September 16, 1999.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	216, December 3, 2000	29, September 15, 1999
WATER TEMPERATURE, °C	28.3, July 10, 11, 1999, August 11, 2001	0.1, January 28, 29, 2000

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SPECIFIC CONDUCTANCE, microsiemens	216, December 3	61, June 15
WATER TEMPERATURE, °C	28.3, August 11	0.5, December 24

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT													
25...	1245	--	1.7	160	6.4	15.1	765	1.4	13	43	12.0	3.20	8.4
NOV													
14...	1300	--	1.3	187	6.2	12.6	--	1.6	--	53	15.0	3.70	8.8
DEC													
12...	1000	--	2.0	167	6.4	8.8	767	7.3	62	40	11.0	3.10	7.8
JAN													
17...	1415	--	1.4	163	6.5	8.8	773	6.7	57	46	13.0	3.20	8.1
FEB													
06...	1315	--	2.0	172	6.7	7.0	771	11.4	93	42	12.0	3.00	9.4
28...	1015	--	10	142	6.5	11.6	768	6.8	62	36	10.0	2.70	7.7
APR													
04...	1745	--	45	117	6.5	13.8	773	11.0	105	30	8.30	2.30	6.5
MAY													
07...	1615	--	.31	142	6.3	19.2	766	2.6	28	46	13.0	3.20	8.1
JUN													
12...	1230	--	1.7	160	6.4	23.9	764	.1	1	42	12.0	2.90	6.5
JUL													
11...	1115	E2.5	--	138	6.1	24.7	760	.1	1	42	12.0	2.80	6.4
AUG													
15...	1245	--	29	109	5.8	25.1	767	3.1	37	32	9.50	2.00	5.4
SEP													
26...	1050	E.60	--	127	5.8	19.1	770	2.2	24	40	12.0	2.50	6.8

DATE	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
25...	24	.6	12.0	2.9	23.0	.2	1.7	125	88	--	<.010	.040	.060
NOV													
14...	21	.5	14.0	2.4	25.0	.2	3.7	138	103	--	<.010	.040	.188
DEC													
12...	24	.5	10.0	9.1	24.0	.1	6.4	107	88	--	<.010	.320	.090
JAN													
17...	24	.5	8.30	7.7	24.0	.1	1.4	121	84	--	<.010	.120	<.010
FEB													
06...	27	.6	11.0	5.7	26.0	.1	1.3	133	92	.260	.020	.280	.873
28...	27	.6	7.70	7.6	20.0	.1	1.4	107	74	.560	.030	.590	.190
APR													
04...	27	.5	6.00	7.6	16.0	.1	1.3	91	60	--	<.010	.500	.016
MAY													
07...	25	.5	5.20	2.3	17.0	.2	.6	110	73	--	<.010	<.020	.028
JUN													
12...	23	.4	3.80	2.7	12.0	.2	3.3	101	67	--	<.010	.070	.084
JUL													
11...	24	.4	2.70	2.2	13.0	.2	2.7	93	64	--	<.010	.040	.058
AUG													
15...	23	.4	5.20	5.9	12.0	.2	4.4	100	60	--	<.010	.100	.030
SEP													
26...	25	.5	3.40	3.7	14.0	.2	4.8	84	69	--	<.010	<.020	.130

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)
OCT													
25...	1.0	.92	1.1	.98	1.1	1.0	.370	.240	.230	1900	91.0	-21.81	-3.80
NOV													
14...	1.2	1.0	1.4	1.2	1.4	1.2	.660	.390	.400	3700	400	-18.48	-3.38
DEC													
12...	.69	.71	.78	.80	1.1	1.1	.160	.100	.120	920	49.0	-27.69	-4.85
JAN													
17...	--	--	.72	.55	.84	.67	.200	.060	.040	830	150	-24.52	-4.42
FEB													
06...	1.1	.93	2.0	1.8	2.3	2.1	.230	.120	.130	1600	71.0	-21.14	-4.04
28...	.78	.72	.97	.91	1.6	1.5	.210	.120	.110	1100	54.0	-21.94	-4.13
APR													
04...	.84	.77	.86	.79	1.4	1.3	.140	.090	.100	680	13.0	--	--
MAY													
07...	1.1	.70	1.1	.73	--	--	.320	.150	.120	940	99.0	--	--
JUN													
12...	1.1	.92	1.2	1.0	1.3	1.1	.380	.220	.240	1300	87.0	--	--
JUL													
11...	.94	.85	1.0	.91	1.0	.95	.340	.140	.130	720	120	--	--
AUG													
15...	1.3	1.1	1.3	1.1	1.4	1.2	.400	.210	.180	1410	32.0	--	--
SEP													
26...	1.2	.67	1.3	.80	--	--	.490	.130	.120	1210	291	--	--

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT	
25...	17
NOV	
14...	18
DEC	
12...	12
JAN	
17...	9.3
FEB	
06...	13
28...	12
APR	
04...	13
MAY	
07...	18
JUN	
12...	17
JUL	
11...	16
AUG	
15...	16
SEP	
26...	13

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	118	104	115	169	168	169	170	168	169	174	172	173
2	123	117	120	169	168	169	173	170	172	175	171	173
3	128	122	124	169	168	169	216	163	178	174	171	173
4	134	127	131	169	168	168	165	162	163	179	174	177
5	141	114	132	170	168	169	166	161	163	181	177	179
6	148	140	144	171	168	169	162	160	161	181	172	178
7	154	147	151	170	169	169	161	160	161	173	170	172
8	163	149	158	175	170	172	163	160	161	171	167	169
9	167	162	165	179	173	176	163	161	162	167	164	166
10	168	166	167	186	178	182	167	112	151	165	162	164
11	169	167	168	190	180	187	163	157	162	163	161	162
12	168	166	167	190	183	188	171	161	166	162	161	162
13	167	154	165	190	185	187	170	165	169	163	161	162
14	166	135	159	189	187	188	172	164	169	---	---	---
15	161	130	146	195	189	193	176	171	172	---	---	---
16	161	130	146	194	191	192	171	164	170	164	162	163
17	161	128	151	191	188	189	177	170	174	165	162	163
18	162	128	149	188	187	188	176	170	174	166	163	164
19	162	160	161	188	184	187	170	166	167	166	164	165
20	161	160	161	208	182	188	166	164	165	169	165	166
21	161	160	161	212	203	209	166	163	164	169	161	164
22	161	160	160	203	195	198	167	164	165	161	158	160
23	161	160	160	195	185	188	---	---	---	163	159	161
24	161	157	161	185	182	184	165	162	163	165	163	164
25	163	161	162	183	173	178	166	162	164	168	164	166
26	163	161	162	185	174	181	171	165	169	170	166	168
27	164	162	163	183	181	182	172	169	170	170	135	167
28	168	164	166	184	177	181	172	170	171	172	165	169
29	171	167	169	177	168	172	173	170	172	170	141	167
30	170	168	169	170	167	169	173	171	172	170	167	169
31	170	168	169	---	---	---	173	171	172	173	169	171
MONTH	171	104	154	212	167	181	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	176	145	171	147	140	143	123	117	121	157	148	151
2	173	145	170	150	138	144	124	114	119	152	149	150
3	174	161	171	145	136	141	120	113	116	156	151	152
4	174	168	171	142	134	139	125	116	119	160	152	156
5	170	163	167	140	131	135	125	116	121	162	153	158
6	176	169	172	---	---	---	122	96	120	161	153	158
7	178	174	176	---	---	---	---	---	---	159	144	150
8	181	175	178	136	97	129	---	---	---	148	145	147
9	181	174	176	137	111	134	---	---	---	147	142	144
10	183	175	178	139	134	136	---	---	---	146	139	144
11	181	166	172	140	134	136	---	---	---	146	141	144
12	171	161	166	140	135	138	---	---	---	146	142	144
13	166	161	163	146	137	141	150	127	141	150	145	147
14	166	160	163	161	130	148	151	117	145	150	142	146
15	178	166	169	154	119	143	153	147	149	147	142	144
16	187	175	181	144	141	143	154	147	150	146	140	143
17	187	150	168	144	140	142	157	113	132	144	138	141
18	157	152	153	144	140	142	147	126	139	143	135	140
19	155	148	152	144	139	141	149	128	140	146	109	137
20	149	145	147	141	128	140	153	122	140	147	140	143
21	148	145	147	138	106	117	164	124	147	150	110	142
22	149	139	145	107	100	102	167	123	147	155	121	147
23	152	144	147	112	102	107	172	127	158	158	151	155
24	154	147	151	119	96	113	175	133	169	161	151	156
25	147	143	145	124	115	119	187	156	174	165	150	156
26	147	144	145	128	120	123	159	138	147	157	150	154
27	146	144	145	127	123	125	157	132	150	186	134	154
28	146	139	143	126	99	124	156	139	147	206	134	166
29	---	---	---	127	99	125	161	154	157	137	108	117
30	---	---	---	127	106	124	159	149	153	109	102	106
31	---	---	---	131	100	126	---	---	---	103	101	102
MONTH	187	139	162	---	---	---	---	---	---	206	101	145

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

SPECIFIC CONDUCTANCE (MICROSIEMENS/CM AT 25 DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	108	96	105	---	---	---	123	108	111	148	137	144
2	101	92	98	---	---	---	110	107	109	148	108	115
3	97	90	93	---	---	---	111	108	110	117	110	115
4	97	92	94	---	---	---	113	105	112	121	115	119
5	104	97	99	---	---	---	114	111	113	121	118	120
6	109	101	105	---	---	---	115	105	114	119	117	118
7	124	108	112	---	---	---	116	104	114	124	118	121
8	142	112	123	---	---	---	118	109	117	124	119	121
9	147	110	124	---	---	---	119	116	118	126	120	123
10	156	123	144	---	---	---	119	118	118	127	120	124
11	152	144	148	---	---	---	125	119	120	129	122	126
12	174	145	160	139	132	136	124	93	101	135	119	124
13	192	171	183	136	129	133	105	96	101	130	120	123
14	200	101	178	130	128	130	109	98	103	130	122	125
15	104	61	83	130	129	130	114	107	109	127	120	122
16	91	79	86	131	129	130	125	113	120	122	117	119
17	91	81	88	130	128	129	134	125	129	119	116	117
18	95	90	92	131	129	130	141	134	138	116	115	116
19	107	94	98	133	130	132	140	131	134	116	114	115
20	127	99	106	134	130	133	142	132	138	118	114	116
21	---	---	---	136	129	134	132	125	127	118	116	117
22	---	---	---	137	132	134	138	128	130	122	117	119
23	---	---	---	135	124	133	136	127	131	124	118	121
24	---	---	---	136	132	134	139	129	133	131	117	122
25	---	---	---	137	122	134	137	129	134	131	121	126
26	---	---	---	139	134	136	147	130	134	136	119	126
27	---	---	---	138	123	131	138	132	135	127	125	126
28	---	---	---	125	123	124	148	135	142	127	125	126
29	---	---	---	126	122	125	151	139	147	126	122	124
30	---	---	---	129	116	120	151	135	144	123	121	122
31	---	---	---	127	117	122	147	130	141	---	---	---
MONTH	---	---	---	---	---	---	151	93	123	148	108	122

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	19.0	18.2	18.6	12.7	11.6	12.0	8.5	5.9	7.1	3.4	2.7	3.1
2	20.4	18.1	19.1	11.9	11.1	11.4	7.5	6.2	6.5	3.5	2.6	3.1
3	20.7	18.0	19.3	11.5	11.0	11.2	6.2	1.4	4.0	3.8	3.3	3.7
4	21.5	19.2	20.2	11.5	11.1	11.4	3.5	.9	2.0	4.0	3.7	3.9
5	22.0	19.8	20.7	12.3	11.5	11.9	3.8	.9	2.3	4.1	3.1	3.8
6	22.9	20.9	21.7	12.4	11.9	12.1	3.5	1.4	2.6	3.9	3.1	3.6
7	22.8	20.6	21.7	12.2	12.0	12.1	5.1	2.3	3.6	4.4	3.4	3.8
8	20.6	15.4	17.8	12.6	12.2	12.5	6.3	3.0	4.6	4.8	4.0	4.4
9	15.4	13.4	14.2	13.0	12.6	12.8	6.4	3.9	5.2	5.1	4.3	4.7
10	14.0	11.8	12.5	13.7	13.0	13.3	6.2	5.2	5.7	4.6	3.7	4.1
11	13.2	11.7	12.2	14.4	13.6	14.0	7.3	5.8	6.4	4.8	3.7	4.2
12	12.7	12.0	12.3	14.1	13.1	13.4	11.0	7.3	9.0	7.0	4.8	5.5
13	12.9	12.4	12.7	13.2	12.1	12.5	8.5	5.7	6.8	7.3	6.3	6.9
14	13.3	12.9	13.1	12.7	12.3	12.5	9.4	7.3	8.2	---	---	---
15	13.7	13.3	13.6	12.4	10.6	11.1	9.7	8.2	9.0	---	---	---
16	14.3	13.7	14.1	10.8	9.6	9.9	9.1	7.9	8.4	8.2	7.4	7.8
17	14.8	14.3	14.6	9.9	9.7	9.7	12.3	9.1	10.6	8.7	8.2	8.5
18	15.4	14.8	15.1	9.8	9.0	9.2	9.7	6.5	7.7	9.0	8.5	8.8
19	15.9	15.4	15.7	9.3	8.3	9.0	7.5	5.1	6.3	9.3	9.0	9.2
20	16.0	15.6	15.7	8.6	7.2	7.8	7.0	4.1	5.1	11.2	9.3	9.5
21	15.7	15.0	15.2	8.0	5.8	6.9	4.5	1.9	3.3	11.0	6.9	8.3
22	15.3	15.1	15.2	5.8	3.5	4.7	5.8	3.7	4.5	7.3	4.5	5.9
23	15.6	15.3	15.5	5.6	3.9	4.7	---	---	---	6.5	4.3	5.4
24	15.7	15.1	15.3	6.4	4.5	5.3	3.0	.5	1.8	5.7	4.3	4.8
25	15.3	15.0	15.1	9.7	5.9	7.1	2.3	.8	1.6	6.8	5.1	6.0
26	15.3	14.9	15.1	10.8	9.7	10.4	1.9	.8	1.4	5.7	4.0	4.7
27	16.1	15.1	15.6	11.8	9.2	10.4	3.2	1.6	2.3	6.6	3.8	5.0
28	16.2	16.0	16.1	11.1	8.4	9.8	3.6	2.9	3.2	6.6	4.3	5.1
29	16.3	15.4	15.8	10.4	7.9	9.2	3.3	1.3	2.4	5.5	4.7	5.1
30	15.4	13.5	14.1	10.2	8.4	9.3	3.2	2.5	2.9	5.9	5.3	5.6
31	13.8	12.3	12.8	---	---	---	3.3	2.6	3.1	6.8	5.9	6.4
MONTH	22.9	11.7	15.8	14.4	3.5	10.3	---	---	---	---	---	---

0209173200 SANDY RUN NEAR LIZZIE, NC--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	6.8	7.5	12.4	8.6	10.0	16.7	11.9	14.3	16.5	16.0	16.2
2	8.8	8.3	8.6	12.3	9.4	10.2	16.2	9.5	12.5	17.3	16.5	16.9
3	8.6	6.4	7.1	12.2	11.3	11.6	13.3	12.1	12.7	17.7	17.2	17.4
4	6.8	5.8	6.3	11.3	10.2	10.8	13.7	10.8	12.1	18.2	17.6	17.9
5	9.1	6.3	7.1	11.4	8.7	10.6	17.3	9.8	13.2	19.0	18.1	18.5
6	8.9	5.9	7.3	---	---	---	19.3	12.3	15.5	19.5	18.8	19.1
7	8.5	6.1	7.0	---	---	---	---	---	---	19.9	19.2	19.4
8	8.8	7.1	7.7	11.7	5.5	8.3	---	---	---	19.3	19.2	19.2
9	9.1	7.5	8.5	13.0	7.9	9.9	---	---	---	19.5	19.2	19.3
10	9.1	8.9	9.0	11.6	7.1	9.0	---	---	---	19.6	19.2	19.3
11	10.1	9.1	9.6	10.9	6.8	8.0	---	---	---	19.7	19.2	19.5
12	9.8	7.3	7.8	11.1	9.2	9.8	---	---	---	20.1	19.6	19.8
13	7.5	6.8	7.1	10.6	9.8	10.1	21.7	20.6	21.2	20.8	20.0	20.4
14	9.2	7.5	8.7	13.1	10.6	12.2	21.8	19.8	20.3	21.1	20.7	20.9
15	9.4	9.0	9.2	13.6	12.4	13.2	20.3	19.2	19.5	21.0	20.6	20.7
16	10.4	9.4	9.9	15.0	12.1	12.8	19.6	18.1	18.5	20.6	20.1	20.3
17	15.4	10.4	12.6	15.0	12.0	12.7	18.4	13.8	16.6	20.1	19.3	19.8
18	11.5	7.9	9.5	15.0	11.8	12.8	13.8	10.5	11.3	19.3	18.7	18.9
19	9.7	5.4	7.4	12.6	9.1	10.2	11.5	9.8	10.4	19.1	18.8	19.0
20	11.7	6.0	8.0	11.7	9.4	10.1	11.4	10.5	10.9	19.9	19.1	19.5
21	12.3	10.1	10.8	13.4	9.9	11.8	12.0	11.4	11.7	20.4	19.8	20.1
22	11.8	5.7	8.0	15.2	11.4	13.1	13.0	12.0	12.4	20.9	20.2	20.6
23	9.6	4.7	6.7	16.5	11.0	13.6	13.8	12.9	13.4	21.3	20.7	21.0
24	11.3	5.7	8.3	17.6	11.4	14.4	14.4	13.8	14.1	22.1	21.2	21.7
25	12.6	8.2	10.2	14.9	11.2	13.2	16.1	14.4	14.9	22.5	21.9	22.3
26	16.3	11.8	13.6	13.8	9.7	11.2	16.1	13.8	14.5	22.7	22.4	22.5
27	14.9	10.2	12.5	13.4	7.5	10.2	14.5	14.2	14.3	22.6	21.1	21.6
28	13.0	10.1	11.6	14.0	7.1	10.4	14.9	14.5	14.6	21.6	21.0	21.1
29	---	---	---	13.1	9.8	11.2	15.3	14.8	15.0	21.8	20.1	20.8
30	---	---	---	18.7	13.1	15.5	16.0	15.3	15.7	23.7	19.1	20.6
31	---	---	---	19.2	14.3	16.5	---	---	---	23.1	20.6	21.3
MONTH	16.3	4.7	8.8	---	---	---	---	---	---	23.7	16.0	19.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	22.7	21.2	21.5	---	---	---	23.5	21.6	22.3	23.9	23.7	23.8
2	24.6	21.1	22.6	---	---	---	23.2	21.9	22.4	24.1	23.1	23.6
3	26.1	21.4	23.7	---	---	---	23.0	22.4	22.7	24.0	22.6	23.0
4	26.2	22.2	24.1	---	---	---	23.8	23.0	23.4	23.4	22.8	23.0
5	25.4	23.8	24.3	---	---	---	24.5	23.8	24.1	23.6	22.6	23.0
6	26.5	24.5	25.1	---	---	---	25.1	24.5	24.8	23.8	22.3	22.8
7	25.3	24.7	25.0	---	---	---	25.9	25.0	25.5	23.2	21.1	21.7
8	25.1	24.7	24.9	---	---	---	26.5	25.9	26.2	21.9	21.2	21.5
9	24.8	23.7	24.0	---	---	---	27.1	26.5	26.7	22.1	21.5	21.8
10	23.7	23.2	23.4	---	---	---	27.7	27.0	27.3	22.2	22.0	22.1
11	23.2	23.1	23.2	---	---	---	28.3	27.6	27.8	22.9	22.2	22.5
12	23.2	23.1	23.2	25.6	25.1	25.4	28.2	24.0	25.1	22.9	21.3	22.0
13	23.2	23.1	23.2	25.7	23.4	24.9	26.7	24.7	25.8	21.8	20.9	21.3
14	24.6	23.1	23.4	23.4	21.2	21.9	26.1	24.4	25.1	21.3	20.7	21.0
15	23.8	22.6	23.2	22.8	21.9	22.4	26.5	23.9	25.2	21.2	19.8	20.3
16	25.5	22.8	24.0	23.5	22.8	23.2	26.6	24.0	25.3	20.2	18.5	19.2
17	25.2	23.7	24.4	24.2	23.5	23.8	26.8	23.9	25.3	19.0	18.4	18.7
18	26.3	23.4	24.8	24.6	24.2	24.4	26.2	24.8	25.6	18.8	18.5	18.7
19	25.9	23.4	24.8	25.1	24.6	24.8	26.1	24.0	24.8	19.0	18.7	18.8
20	26.1	23.7	24.9	25.1	24.6	24.9	26.8	24.7	25.6	19.5	19.0	19.2
21	---	---	---	25.0	24.0	24.4	26.4	24.1	25.1	20.0	19.5	19.8
22	---	---	---	24.8	24.2	24.5	25.8	23.7	24.6	20.5	20.0	20.3
23	---	---	---	25.3	24.7	25.0	24.9	23.3	23.8	21.2	20.5	20.8
24	---	---	---	26.0	25.3	25.6	24.7	24.1	24.3	21.9	21.1	21.3
25	---	---	---	26.6	25.9	26.2	24.7	22.9	23.4	21.7	21.5	21.6
26	---	---	---	26.5	26.2	26.4	23.6	21.8	22.5	21.6	18.9	19.7
27	---	---	---	26.3	23.5	25.1	22.6	22.2	22.4	19.2	17.6	18.2
28	---	---	---	23.5	21.8	22.3	23.1	22.4	22.8	17.9	17.5	17.7
29	---	---	---	22.8	22.3	22.6	23.8	23.1	23.4	17.8	16.8	17.2
30	---	---	---	23.2	22.3	22.6	23.6	23.5	23.5	17.2	16.2	16.6
31	---	---	---	22.9	21.6	22.2	23.7	23.5	23.6	---	---	---
MONTH	---	---	---	---	---	---	28.3	21.6	24.5	24.1	16.2	20.7

02091734 NORTH DRAINAGE DITCH (MS4-D2) NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'28.9, long 77°33'05.4", North American Datum of 1983, Greene County, Hydrologic Unit 03020203, approximately 0.2 mi east of State Road 1345 and 1.3 mi west-northwest of Willow Green.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--August 2000 to August 2001.

REMARKS.--Station operated in cooperation with the North Carolina Department of Environment and Natural Resources as part of a project to examine nutrient loadings from drainage ditches in the Neuse River Basin.

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	TIME	FLOW RATE (G/M) (00059)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS NONCARB DISSOLV LAB AS CACO3 (MG/L) (00905)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
AUG 2000													
28...	1915	E4.5	6.5	73	6.2	111	21.1	16	26	7.10	2.10	3.50	7.1
SEP													
28...	1545	27.4	8.2	90	4.7	337	19.9	76	78	20.0	6.80	13.0	15.0
OCT													
24...	1640	E4.5	8.1	80	5.9	115	15.6	22	29	8.00	2.30	2.00	7.2
NOV													
13...	1415	E2.8	7.7	75	6.0	118	13.9	22	30	8.10	2.30	2.10	7.2
DEC													
12...	1050	12.5	10	90	5.2	352	10.9	89	91	24.0	7.60	9.70	15.0
JAN 2001													
18...	1645	E2.9	6.5	56	5.9	140	9.2	15	31	5.50	4.20	11.0	6.8
FEB													
06...	1600	E1.0	7.4	64	5.7	116	9.0	23	32	8.70	2.60	2.00	6.4
26...	1535	16.1	8.4	83	5.3	271	14.9	69	73	19.0	6.10	6.90	12.0
MAR													
05...	1655	18.3	10.6	97	5.0	311	10.7	82	84	22.0	7.10	7.80	14.0
APR													
03...	1100	27.1	10.2	92	5.0	245	11.0	63	66	17.0	5.70	5.70	11.0
MAY													
04...	0900	E4.0	8.3	84	5.8	111	16.3	21	30	7.90	2.50	1.40	6.6
JUN													
11...	1530	E3.9	6.8	82	6.0	110	24.0	17	28	7.60	2.30	1.80	6.7
14...	1630	117	7.0	82	5.9	64	22.4	6	15	3.60	1.50	5.60	2.8
JUL													
10...	0950	21.4	8.0	91	4.8	237	21.0	57	59	15.0	5.30	7.20	11.0
AUG													
15...	1050	37.9	7.8	90	4.5	387	22.4	85	87	22.0	7.70	18.0	17.0

DATE	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
AUG 2000													
28...	10	14.0	4.1	59	.020	.24	.30	--	3.50	<.010	.22	.28	3.8
SEP													
28...	2	37.0	12.0	198	.070	.47	.65	21.0	21.0	.010	.40	.58	22
OCT													
24...	8	14.0	4.3	65	.080	<.20	.35	5.09	5.10	.010	--	.27	5.4
NOV													
13...	8	13.0	5.0	67	.060	<.20	.29	5.59	5.60	.010	--	.23	5.9
DEC													
12...	2	43.0	9.7	199	.026	.28	.34	--	20.0	<.010	.25	.31	20
JAN 2001													
18...	16	14.0	5.9	81	<.010	.79	1.1	5.29	5.30	.010	--	--	6.4
FEB													
06...	9	13.0	5.4	66	.024	<.20	<.20	5.08	5.10	.020	--	--	--
26...	3	33.0	9.6	151	.011	<.20	.44	14.0	14.0	.010	--	.43	14
MAR													
05...	3	37.0	12.0	177	.052	.37	.37	--	17.0	<.010	.32	.32	17
APR													
03...	2	31.0	11.0	141	.022	.27	.33	--	13.0	<.010	.25	.31	13
MAY													
04...	9	13.0	5.3	62	.083	.28	.31	--	4.40	<.010	.20	.23	4.7
JUN													
11...	11	13.0	4.3	60	.240	.44	1.0	3.88	3.90	.020	.20	.76	4.9
14...	9	7.9	4.4	36	.112	.86	3.1	--	.850	<.010	.75	3.0	4.0
JUL													
10...	3	30.0	10.0	133	.090	.43	.40	--	12.0	<.010	.34	.31	12
AUG													
15...	2	48.0	13.0	220	.130	.60	1.0	--	21.0	<.010	.47	.87	22

02091734 NORTH DRAINAGE DITCH (MS4-D2) NEAR WILLOW GREEN, NC--Continued

WATER-QUALITY DATA, FOR PERIOD AUGUST 2000 TO AUGUST 2001

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
AUG 2000						
28...	<.020	.010	.040	2.4	30	4.3
SEP						
28...	<.020	<.010	.040	2.3	160	51.0
OCT						
24...	<.020	<.010	.040	1.0	20	19.0
NOV						
13...	<.020	<.010	.040	1.5	20	20.0
DEC						
12...	<.020	<.010	<.020	1.8	50	59.0
JAN 2001						
18...	.240	.180	.360	9.5	80	56.0
FEB						
06...	<.020	<.010	.020	1.9	30	19.0
26...	<.020	<.010	<.020	1.9	50	64.0
MAR						
05...	<.020	<.010	<.020	3.5	60	63.0
APR						
03...	<.020	<.010	<.020	2.7	130	47.0
MAY						
04...	<.020	<.010	<.020	3.3	20	18.0
JUN						
11...	<.020	.010	.170	2.6	200	33.0
14...	.050	.040	.640	9.2	350	15.0
JUL						
10...	<.020	<.010	<.020	1.8	80	38.0
AUG						
15...	<.020	<.010	.060	3.2	220	50.0

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC

LOCATION.--Lat 35°32'00", long 77°32'40", 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 current year.

GAGE.--Water-stage recorder. Elevation of gage is 45 ft above sea level, from topographic map. Satellite telemetry at station.

REMARKS.--Records fair. Maximum gage height for period or record probably occurred on Sept. 17, 1999, discharge not determined. Maximum gage height from floodmarks. Minimum instantaneous discharge for current water year also occurred on May 25. Minimum instantaneous discharge for period of record also occurred on June 10, 1999.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	37	1.5	13	9.1	6.3	24	84	1.6	8.6	6.0	5.1	4.4
2	24	1.2	8.0	8.8	5.8	19	126	1.3	55	4.0	3.4	14
3	17	1.1	8.9	8.5	5.2	16	127	1.1	81	2.6	2.1	8.4
4	14	1.2	15	8.4	5.3	39	98	.98	33	2.0	1.5	7.5
5	11	1.6	18	8.6	12	86	74	.87	14	40	1.2	7.6
6	10	1.8	20	8.9	19	78	53	.99	7.4	65	.86	6.4
7	11	1.7	21	8.8	17	52	35	.85	5.0	23	.75	4.4
8	9.5	1.7	21	9.9	14	35	27	.74	4.1	12	.63	3.0
9	7.8	1.8	23	11	11	27	22	.72	4.1	8.7	.52	3.0
10	6.7	2.2	24	9.5	12	22	17	.60	4.7	6.4	.52	3.4
11	5.0	2.5	24	8.9	9.3	19	13	.52	4.9	4.6	.51	3.1
12	3.9	2.7	25	8.4	7.9	16	11	.50	3.2	3.9	23	2.7
13	3.3	2.6	22	7.9	9.8	15	10	.55	2.4	3.1	32	2.2
14	2.8	3.5	21	6.9	10	13	8.9	.45	9.1	2.7	51	1.8
15	2.4	3.2	20	7.8	14	15	7.4	.37	137	2.1	67	1.4
16	2.2	2.7	27	8.0	12	22	6.7	.32	222	1.5	44	1.1
17	2.0	3.0	20	7.8	23	23	5.1	.32	242	1.2	24	.84
18	2.0	2.6	21	7.3	47	19	5.2	.36	187	.97	16	.62
19	1.9	3.4	25	7.1	34	16	5.5	.38	134	.92	15	.59
20	1.8	7.0	24	12	25	15	5.1	.49	81	.86	20	.52
21	1.8	8.2	20	17	20	128	4.3	.68	35	.77	24	.47
22	1.8	13	18	16	26	201	3.3	.52	17	.69	30	.45
23	1.8	8.9	16	13	75	143	2.6	.45	9.8	.61	20	.42
24	1.8	8.3	19	11	64	108	2.1	.38	16	.58	12	.57
25	1.7	16	15	9.2	42	83	2.2	.32	12	.63	7.9	1.3
26	1.7	23	12	8.3	36	63	2.8	.87	17	.59	4.6	1.1
27	1.7	32	12	12	30	44	2.9	2.7	49	1.3	2.8	.87
28	2.0	38	12	8.4	26	35	3.0	4.9	27	1.9	4.6	.71
29	1.6	34	11	6.6	---	36	2.4	13	16	1.6	6.6	.64
30	1.4	23	10	6.5	---	67	1.8	16	9.6	5.6	6.5	.60
31	1.3	---	9.5	6.5	---	79	---	11	---	4.8	5.7	---
TOTAL	193.9	253.4	555.4	288.1	618.6	1558	768.3	64.83	1447.9	210.62	433.79	84.10
MEAN	6.25	8.45	17.9	9.29	22.1	50.3	25.6	2.09	48.3	6.79	14.0	2.80
MAX	37	38	27	17	75	201	127	16	242	65	67	14
MIN	1.3	1.1	8.0	6.5	5.2	13	1.8	.32	2.4	.58	.51	.42
CFSM	.12	.17	.35	.18	.43	.99	.50	.04	.95	.13	.27	.05
IN.	.14	.18	.41	.21	.45	1.14	.56	.05	1.06	.15	.32	.06

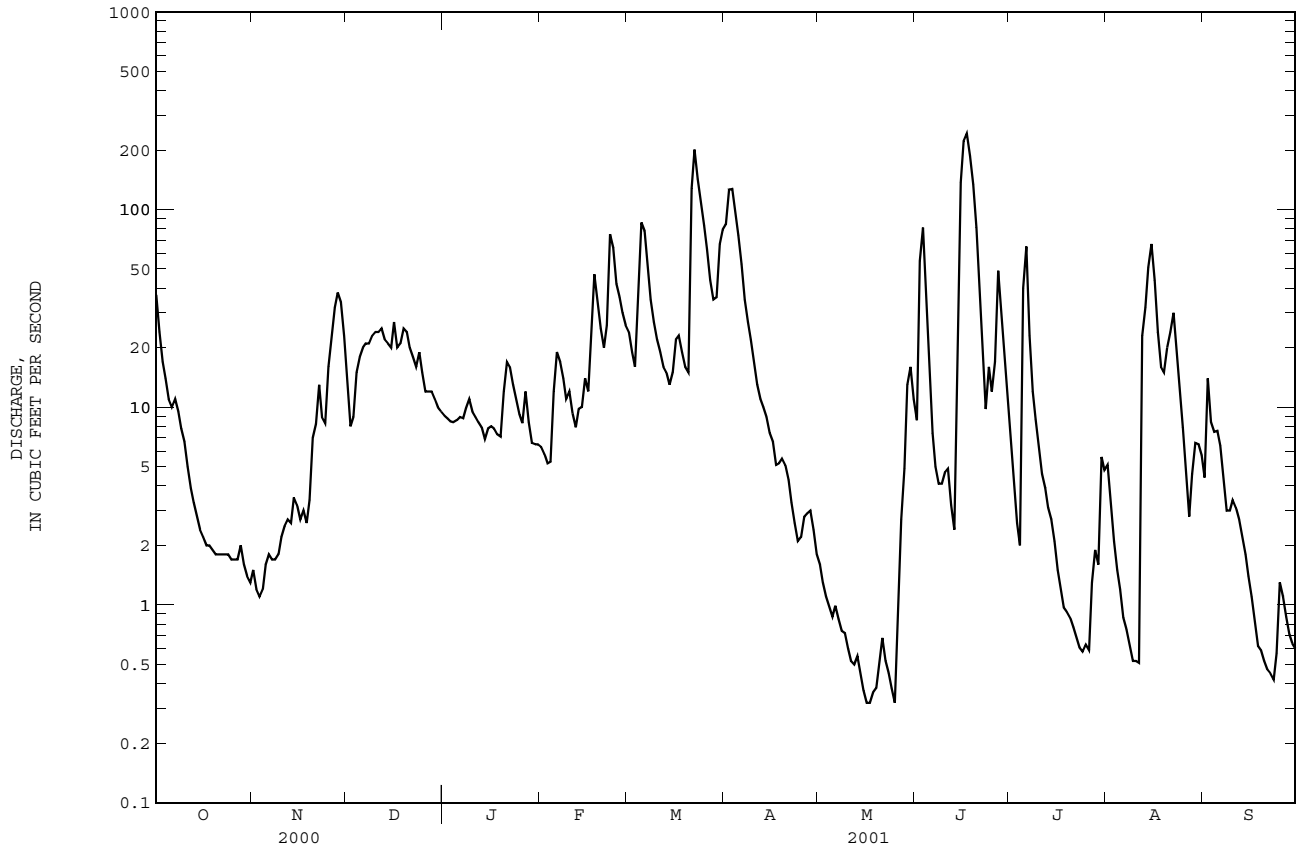
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	86.3	24.5	16.9	50.2	60.9	43.9	29.1	14.0	21.4	3.91	6.60	176
MAX	166	40.5	17.9	91.1	98.3	50.3	41.5	26.8	48.3	6.79	14.0	462
(WY)	2000	2000	2001	2000	2000	2001	2000	1999	2001	2001	2001	1999
MIN	6.25	8.45	15.9	9.29	22.1	39.6	20.1	2.09	1.78	1.77	.16	2.80
(WY)	2001	2001	2000	2001	2001	2000	1999	2001	2000	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	11708.79		6476.94			
ANNUAL MEAN	32.0		17.7		43.6	
HIGHEST ANNUAL MEAN					81.7	1999
LOWEST ANNUAL MEAN					17.7	2001
HIGHEST DAILY MEAN	303	Jan 31	242	Jun 17	3000	Sep 17 1999
LOWEST DAILY MEAN	.17	Jun 21	.32	May 16	.08	Aug 25 1999
ANNUAL SEVEN-DAY MINIMUM	.21	Jul 18	.38	May 14	.09	Aug 23 1999
MAXIMUM PEAK FLOW			253	Jun 17	NOT DETERMINED*	
MAXIMUM PEAK STAGE			8.19	Jun 17	19.03*	Sep 17 1999
INSTANTANEOUS LOW FLOW			.30*	May 16	.00*	Jun 9 1999
ANNUAL RUNOFF (CFSM)	.63		.35		.85	
ANNUAL RUNOFF (INCHES)	8.54		4.72		11.60	
10 PERCENT EXCEEDS	98		39		87	
50 PERCENT EXCEEDS	9.3		8.0		10	
90 PERCENT EXCEEDS	.89		.73		.56	

* See REMARKS.

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued



02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
25...	1330	1.6	142	6.4	15.2	765	2.7	27	42	12.0	3.00	7.4	23
NOV													
14...	1330	4.2	162	6.2	15.2	--	2.9	--	46	13.0	3.40	7.8	22
DEC													
12...	0930	25	159	6.5	8.3	766	8.0	67	37	9.70	3.00	7.8	25
JAN													
17...	1500	7.8	151	6.6	9.5	773	7.2	63	43	12.0	3.10	8.0	25
FEB													
06...	1245	20	148	6.6	7.7	771	10.2	84	39	11.0	2.80	8.7	27
28...	0935	26	132	6.4	12.0	768	5.4	50	35	9.60	2.60	7.6	27
APR													
05...	1100	74	112	6.4	11.3	777	9.2	82	31	8.40	2.40	6.2	26
MAY													
07...	1515	.80	131	6.3	18.5	766	2.8	30	40	11.0	3.10	7.7	27
JUN													
12...	1200	3.1	110	6.4	26.1	764	3.8	46	39	11.0	2.70	5.8	23
JUL													
11...	1210	4.5	108	6.2	28.5	760	2.7	35	38	11.0	2.50	4.9	21
AUG													
15...	1400	70	100	5.8	26.2	767	2.9	36	31	9.10	2.00	4.9	23
SEP													
26...	1150	1.0	105	6.0	19.0	770	3.8	41	37	11.0	2.30	5.6	23

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
25...	.5	8.40	3.0	19.0	.1	2.5	109	77	--	<.010	<.020	.070	.84
NOV													
14...	.5	11.0	2.4	21.0	.2	3.4	123	88	--	<.010	.040	.074	1.0
DEC													
12...	.6	11.0	9.1	23.0	.1	5.6	102	85	--	<.010	.240	.040	.70
JAN													
17...	.5	8.30	7.3	22.0	.2	.7	111	80	--	<.010	.070	<.010	--
FEB													
06...	.6	8.70	5.2	22.0	.1	1.2	119	79	.200	.010	.210	.114	1.4
28...	.6	7.00	7.3	18.0	.1	1.2	104	69	.380	.020	.400	.052	.77
APR													
05...	.5	5.40	7.8	15.0	.1	1.0	88	59	--	<.010	.400	<.010	--
MAY													
07...	.5	4.50	2.2	15.0	.2	.9	104	68	--	<.010	.040	.066	.75
JUN													
12...	.4	2.10	1.8	9.3	.2	1.8	90	58	--	<.010	<.020	.037	1.1
JUL													
11...	.3	2.70	2.2	10.0	.2	3.4	82	58	--	<.010	.040	.036	.90
AUG													
15...	.4	4.40	6.0	10.0	.2	4.6	90	57	--	<.010	.120	.030	1.2
SEP													
26...	.4	2.30	3.0	9.9	.2	3.8	77	58	--	<.010	<.020	.070	1.0

02091736 MIDDLE SWAMP NEAR FARMVILLE, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT													
25...	.71	.91	.78	--	--	.300	.160	.140	1300	170	-23.00	-3.78	14
NOV													
14...	.83	1.1	.90	1.1	.94	.360	.170	.170	2000	390	-20.33	-3.30	5.5
DEC													
12...	.53	.74	.57	.98	.81	.120	.070	.100	790	17.0	-27.31	-4.84	11
JAN													
17...	--	.65	.44	.72	.51	.210	.090	.050	820	64.0	-26.66	-4.40	10
FEB													
06...	.72	1.5	.83	1.7	1.0	.210	.110	.140	1600	56.0	-23.36	-4.03	9.9
28...	.63	.82	.68	1.2	1.1	.170	.080	.090	1000	47.0	-23.17	-4.08	11
APR													
05...	--	.85	.72	1.2	1.1	.120	.070	.080	660	12.0	--	--	12
MAY													
07...	.75	.82	.82	.86	.86	.300	.170	.150	1300	46.0	--	--	17
JUN													
12...	.84	1.1	.88	--	--	.440	.220	.240	1600	69.0	--	--	14
JUL													
11...	.71	.94	.75	.98	.79	.390	.190	.200	1100	86.0	--	--	14
AUG													
15...	.97	1.2	1.0	1.3	1.1	.390	.180	.170	1450	47.0	--	--	15
SEP													
26...	.63	1.1	.70	--	--	.360	.080	.070	690	249	--	--	11

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC

LOCATION.--Lat 35°31'30", long 77°31'15", Greene County, Hydrologic Unit 03020203, at bridge on Secondary Road 1343, 0.3 mi downstream from Middle Swamp, and 0.7 mi northeast of Willow Green.

DRAINAGE AREA.--145 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1999 to current year.

GAGE.--Water-stage recorder. Datum of gage is 45 ft above sea level, from topographic map.

REMARKS.--Records poor. Maximum gage height for period probably occurred on Sept. 17, 1999. Maximum gage height from floodmarks. Minimum instantaneous discharge for the current year was not determined.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	127	e4.5	48	e28	24	71	197	9.6	40	38	30	26
2	76	e3.6	43	e27	22	65	281	8.8	93	28	27	30
3	53	e3.3	42	e26	21	60	384	8.7	152	23	25	28
4	40	e3.6	48	e26	22	75	321	9.0	141	20	23	26
5	33	e5.1	54	e26	27	158	227	9.1	81	80	22	26
6	28	e5.4	59	e27	46	199	168	9.2	46	407	21	25
7	26	e5.0	60	e26	69	163	131	8.7	35	265	19	24
8	24	e5.4	61	e30	62	121	111	8.1	29	101	19	22
9	21	e5.7	65	e33	49	90	81	7.7	28	51	19	22
10	21	e7.0	66	e28	41	70	64	8.0	27	38	18	26
11	e15	e8.0	62	e27	37	58	50	8.4	30	30	18	26
12	e12	e8.4	66	e25	31	48	42	8.8	27	25	39	26
13	e10	e8.4	61	e24	29	47	38	9.3	24	21	76	26
14	e8.0	e11	60	e21	30	43	33	9.5	35	20	136	26
15	e7.0	e10	57	e23	38	43	28	9.6	214	18	138	e22
16	e6.6	e9.0	61	e24	38	54	24	9.9	741	17	105	e18
17	e6.0	e10	59	e23	45	65	21	10	972	15	58	e16
18	e6.0	e9.0	58	e22	92	60	20	11	836	13	40	e14
19	e5.7	e11	61	e21	110	50	21	12	615	13	40	e14
20	e5.4	e22	59	42	87	43	20	13	411	13	41	e11
21	e5.4	e25	55	48	67	146	18	19	198	14	85	e10
22	e5.4	e39	53	52	63	503	15	22	94	14	128	8.8
23	e5.4	e27	50	44	124	496	12	23	56	15	77	8.7
24	e5.4	e25	49	38	162	360	9.9	27	55	16	44	9.0
25	e5.1	46	48	34	134	218	9.2	28	88	19	33	11
26	e5.4	54	e39	29	111	150	11	31	66	20	26	9.5
27	e5.4	68	e36	30	97	112	13	39	121	24	23	8.4
28	e6.0	72	e36	32	82	84	14	37	172	33	26	9.1
29	e4.8	68	e36	26	---	76	13	47	112	42	30	8.0
30	e4.2	58	e33	24	---	112	11	50	58	39	30	7.4
31	e4.2	---	e29	24	---	166	---	44	---	34	28	---
TOTAL	587.4	637.4	1614	910	1760	4006	2388.1	555.4	5597	1506	1444	543.9
MEAN	18.9	21.2	52.1	29.4	62.9	129	79.6	17.9	187	48.6	46.6	18.1
MAX	127	72	66	52	162	503	384	50	972	407	138	30
MIN	4.2	3.3	29	21	21	43	9.2	7.7	24	13	18	7.4
CFSM	.13	.15	.36	.20	.43	.89	.55	.12	1.29	.34	.32	.13
IN.	.15	.16	.41	.23	.45	1.03	.61	.14	1.44	.39	.37	.14

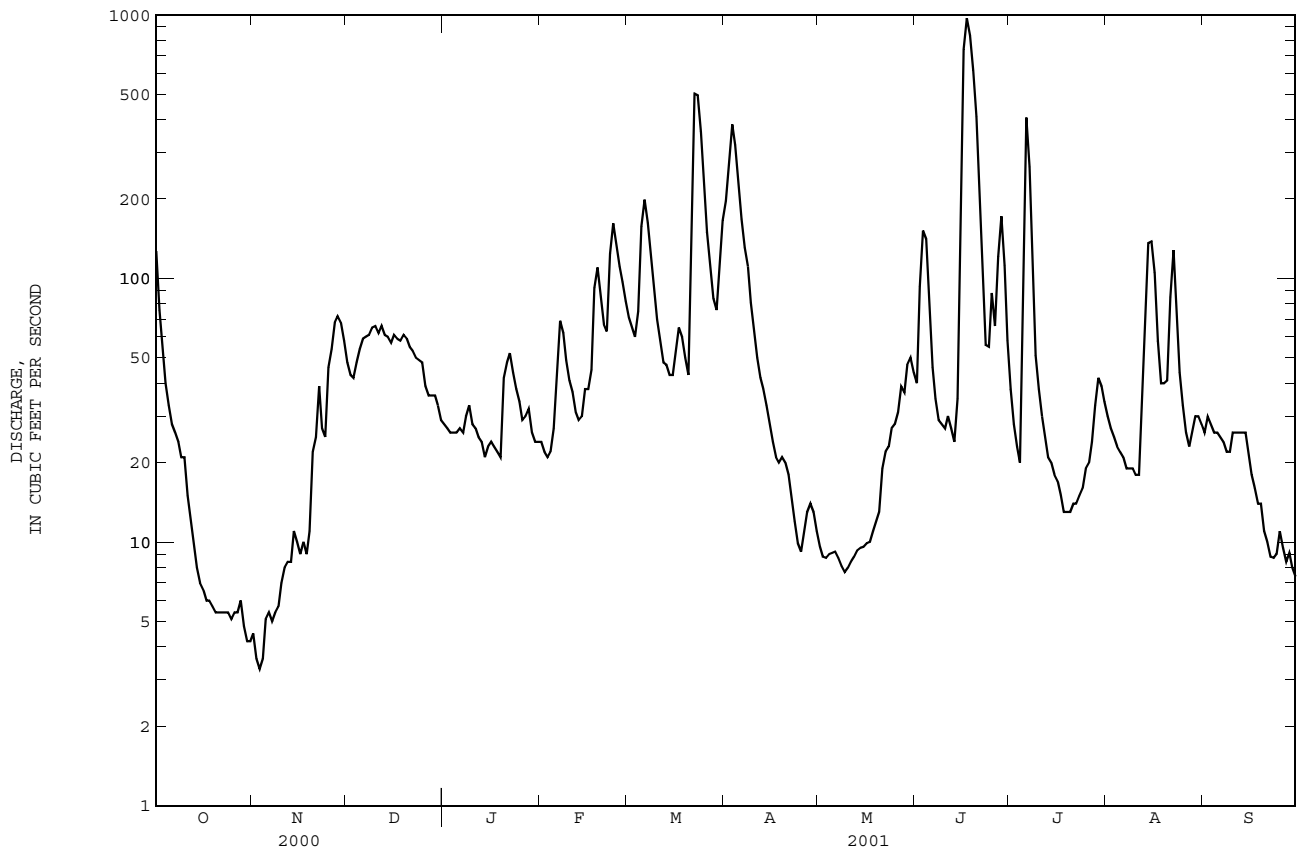
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2001, BY WATER YEAR (WY)

MEAN	370	63.5	52.2	142	187	122	94.2	40.4	86.0	29.2	36.0	559
MAX	721	106	52.3	254	307	129	115	67.0	187	48.6	46.6	1493
(WY)	2000	2000	2000	2000	2000	2001	2000	1999	2001	2001	2001	1999
MIN	18.9	21.2	52.1	29.4	62.9	115	79.6	17.9	17.0	18.9	30.3	18.1
(WY)	2001	2001	2001	2001	2001	2000	2001	2001	2000	2000	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1999 - 2001	
ANNUAL TOTAL	34813.3		21549.2			
ANNUAL MEAN	95.1		59.0		110	
HIGHEST ANNUAL MEAN					162	2000
LOWEST ANNUAL MEAN					59.0	2001
HIGHEST DAILY MEAN	1050	Jan 26	972	Jun 17	6300	Sep 17 1999
LOWEST DAILY MEAN	3.3	Nov 3	e3.3	Nov 3	e3.3	Nov 3 2000
ANNUAL SEVEN-DAY MINIMUM	4.0	Oct 29	4.0	Oct 29	4.0	Oct 29 2000
MAXIMUM PEAK FLOW			984	Jun 17	6650*	Sep 17 1999
MAXIMUM PEAK STAGE			11.45	Jun 17	22.78*	Sep 17 1999
INSTANTANEOUS LOW FLOW			NOT DETERMINED*		9.0*	Jul 11 1999
ANNUAL RUNOFF (CFSM)	.66		.41		.76	
ANNUAL RUNOFF (INCHES)	8.93		5.53		10.34	
10 PERCENT EXCEEDS	255		122		274	
50 PERCENT EXCEEDS	40		29		42	
90 PERCENT EXCEEDS	8.0		8.4		11	

e Estimated.
* See REMARKS.

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC--Continued



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, IN CUBIC FEET PER SECOND (00060)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT													
25...	1430	E5.1	--	146	6.7	15.2	764	4.0	40	39	11.0	2.70	12.0
NOV													
14...	1400	E11	--	163	6.3	12.8	--	3.1	--	39	11.0	2.90	14.0
DEC													
12...	0845	--	67	157	6.6	7.1	766	9.1	74	32	8.60	2.60	11.0
JAN													
17...	1530	E23	--	157	6.9	9.7	773	12.7	110	35	9.80	2.60	13.0
FEB													
06...	1200	--	46	146	6.8	6.7	771	10.6	86	35	10.0	2.50	12.0
28...	0830	--	84	120	6.6	12.3	767	8.1	75	29	8.10	2.20	9.0
APR													
05...	1125	--	228	101	6.2	11.3	777	8.4	75	27	7.30	2.10	6.6
MAY													
07...	1445	--	8.6	195	6.6	17.1	767	4.3	44	39	11.0	2.70	13.0
JUN													
12...	1130	--	27	134	6.4	24.9	764	4.0	48	38	11.0	2.50	12.0
JUL													
11...	1245	--	30	97	6.3	26.9	760	3.9	49	29	8.30	2.00	6.1
AUG													
15...	1445	--	140	95	6.1	25.7	767	4.6	56	25	7.20	1.60	7.2
SEP													
26...	1215	--	9.3	139	6.3	20.5	769	5.3	59	34	9.90	2.30	14.0

DATE	SODIUM PERCENT (00932)	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)
OCT													
25...	36	.8	5.90	5.1	16.0	.1	5.2	108	83	<.010	.030	.060	.75
NOV													
14...	39	1.0	7.10	3.3	18.0	.2	4.3	112	90	<.010	<.020	.077	.83
DEC													
12...	36	.8	8.60	9.6	22.0	.1	5.4	101	83	<.010	.140	<.010	--
JAN													
17...	42	1.0	3.60	8.8	20.0	.1	.2	107	78	<.010	<.020	<.010	--
FEB													
06...	38	.9	6.20	7.4	19.0	.1	.8	125	77	<.010	.090	<.010	--
28...	36	.7	4.80	8.4	16.0	.1	.9	88	63	<.010	.140	.017	.60
APR													
05...	31	.6	4.00	8.2	13.0	.1	2.2	79	55	<.010	.330	.012	.69
MAY													
07...	39	.9	4.00	4.1	15.0	.2	2.8	113	79	<.010	.030	.020	.93
JUN													
12...	38	.8	3.30	2.2	12.0	.2	4.8	109	76	<.010	.160	.059	1.0
JUL													
11...	29	.5	3.20	4.1	9.6	.2	5.4	81	56	<.010	.170	.062	.80
AUG													
15...	35	.6	3.70	6.6	8.7	.2	4.7	79	56	<.010	.120	.040	.96
SEP													
26...	44	1	3.50	3.4	12.0	.2	5.5	97	78	<.010	.020	.030	.77

02091737 LITTLE CONTENTNEA CREEK NEAR WILLOW GREEN, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT													
25...	.60	.81	.66	.84	.69	.240	.140	.130	1300	100	-23.59	-3.73	13
NOV													
14...	.63	.91	.71	--	--	.270	.140	.140	1400	180	-16.87	-3.27	13
DEC													
12...	--	.69	.52	.83	.66	.080	.040	.060	630	9.0	-24.49	-4.70	10
JAN													
17...	--	.41	.36	--	--	.090	.040	.030	500	17.0	-25.28	-4.38	8.2
FEB													
06...	--	.54	.74	.63	.83	.120	.100	.090	1000	29.0	-23.46	-4.19	9.1
28...	.56	.62	.58	.76	.72	.120	.080	.080	750	21.0	-22.50	-4.18	10
APR													
05...	.63	.70	.64	1.0	.97	.100	.050	.070	550	15.0	--	--	12
MAY													
07...	.85	.95	.87	.98	.90	.200	.130	.110	830	63.0	--	--	14
JUN													
12...	.88	1.1	.94	1.3	1.1	.470	.340	.340	2200	56.0	--	--	15
JUL													
11...	.62	.86	.68	1.0	.85	.340	.200	.190	1100	79.0	--	--	14
AUG													
15...	.76	1.0	.80	1.1	.92	.320	.140	.130	910	31.0	--	--	12
SEP													
26...	.77	.80	.80	.82	.82	.330	.140	.130	560	202	--	--	11

02091740 LITTLE CONTENTNEA CREEK AT SCUFFLETON, NC

LOCATION.--Lat 35°27'20", long 77°29'10", Greene County, Hydrologic Unit 03020203, at bridge on State Highway 102, at Scuffleton.

DRAINAGE AREA.--172 mi^2

PERIOD OF RECORD.--Water years 2000 to current year.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
NOV													
15...	1300	13	173	6.7	11.6	764	5.6	51	56	18.0	2.60	10.0	26
JAN													
18...	1000	47	158	6.9	7.8	773	--	--	41	12.0	2.60	11.0	33
FEB													
07...	1000	94	151	6.8	6.9	776	10.1	81	40	12.0	2.50	12.0	35
APR													
04...	1030	560	102	6.4	--	774	--	--	27	7.40	2.00	6.5	31
JUL													
10...	1045	108	92	6.2	24.9	763	4.4	54	29	8.50	1.80	5.2	26

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)
NOV													
15...	.6	4.70	7.1	14.0	.2	6.9	114	97	<.010	.050	.020	.57	.52
JAN													
18...	.8	6.00	10.0	19.0	.1	.6	102	83	<.010	<.020	<.010	--	--
FEB													
07...	.8	5.90	7.7	18.0	.1	1.0	114	82	<.010	.110	<.010	--	--
APR													
04...	.5	4.10	7.9	13.0	.1	2.0	78	54	<.010	.290	.019	.72	.62
JUL													
10...	.4	3.30	6.0	8.8	.2	5.2	72	55	<.010	.200	.036	.87	.73

DATE	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
NOV										
15...	.59	.54	.64	.59	.190	.110	.090	470	21.0	8.0
JAN										
18...	.55	.36	--	--	.120	.040	.020	380	14.0	6.8
FEB										
07...	.55	.44	.66	.55	.100	.060	.080	770	14.0	8.7
APR										
04...	.74	.64	1.0	.93	.140	.060	.080	570	13.0	11
JUL										
10...	.91	.77	1.1	.97	.280	.170	.160	1100	54.0	11

Gaging station at Cashie River near Windsor, North Carolina.

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'40", long 77°18'20", 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.

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at sea level. Satellite telemetry at station.

REMARKS.--Records good, except those for period Oct. 28 to Nov. 16, which are poor. 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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7350	696	3650	1800	1610	3490	9390	4890	2410	2740	5530	2490
2	7770	660	3320	1760	1570	3300	9030	4150	2820	2350	5710	2550
3	8360	641	2990	1690	1580	3100	8770	3090	3270	1990	5800	3050
4	8550	664	2720	1670	1600	3050	8690	2420	3870	1970	5640	3340
5	8500	600	2510	1700	1720	3360	8860	2050	4510	1830	5170	3110
6	8330	627	2330	1730	1790	3540	9210	1630	4700	1790	4180	2770
7	6560	638	2300	1720	1830	3920	9510	1290	4810	1920	3090	2450
8	5330	642	2340	1710	1930	4590	9690	1280	4850	2810	2310	2180
9	4470	674	2270	1660	2150	5090	9770	1190	4400	3810	1920	1960
10	3560	796	2270	1590	2180	5220	9800	1170	3430	4260	1700	1930
11	2750	741	2230	1590	1960	5150	9710	1130	2460	4420	1500	1880
12	2190	637	2190	1590	1930	4740	9230	1120	1960	4350	1440	1970
13	1880	672	2040	1590	1940	4350	8720	1110	1540	3700	1710	2180
14	1720	751	2120	1620	1950	3960	7710	1050	1480	3240	3060	2340
15	1610	764	2020	1680	1960	3530	6110	950	3440	3360	4130	2160
16	1490	862	2070	1680	2030	3170	6100	881	5320	3600	4940	2030
17	1350	997	2110	1670	2230	3030	6210	876	6080	3070	5330	1910
18	1240	1090	2070	1650	2530	2990	6190	967	6360	2170	5670	1730
19	1180	1330	2090	1670	2780	3180	6220	1150	6410	1590	5940	1470
20	1140	1570	2510	1730	3130	3240	6120	1370	6430	1130	5800	1360
21	1120	1650	3280	1730	3740	4090	6150	1550	6390	944	5420	1280
22	1050	1630	3630	1700	3920	5130	6080	1570	6380	884	7120	1200
23	893	1670	e3350	1790	4070	5940	6010	1490	6310	853	7040	1070
24	963	1790	e2950	2250	3950	5830	5950	1490	6330	873	6320	1030
25	885	1800	e2650	2410	3890	5470	5630	1490	6390	937	6140	1210
26	839	2000	e2400	2290	3880	5930	4960	1530	5710	965	5040	1280
27	828	2170	e2200	2180	3800	7730	4610	1710	5050	856	3980	1570
28	825	2410	e2150	2000	3640	8810	4620	2050	4570	841	3310	2040
29	776	2990	2070	1910	---	9250	4750	2600	3960	1370	2870	2310
30	770	3540	2010	1840	---	9570	4870	2870	3320	3480	2620	1980
31	725	---	1910	1750	---	9560	---	2580	---	5070	2530	---
TOTAL	95004	37702	76750	55350	71290	153310	218670	54694	134960	73173	132960	59830
MEAN	3065	1257	2476	1785	2546	4945	7289	1764	4499	2360	4289	1994
MAX	8550	3540	3650	2410	4070	9570	9800	4890	6430	5070	7120	3340
MIN	725	600	1910	1590	1570	2990	4610	876	1480	841	1440	1030

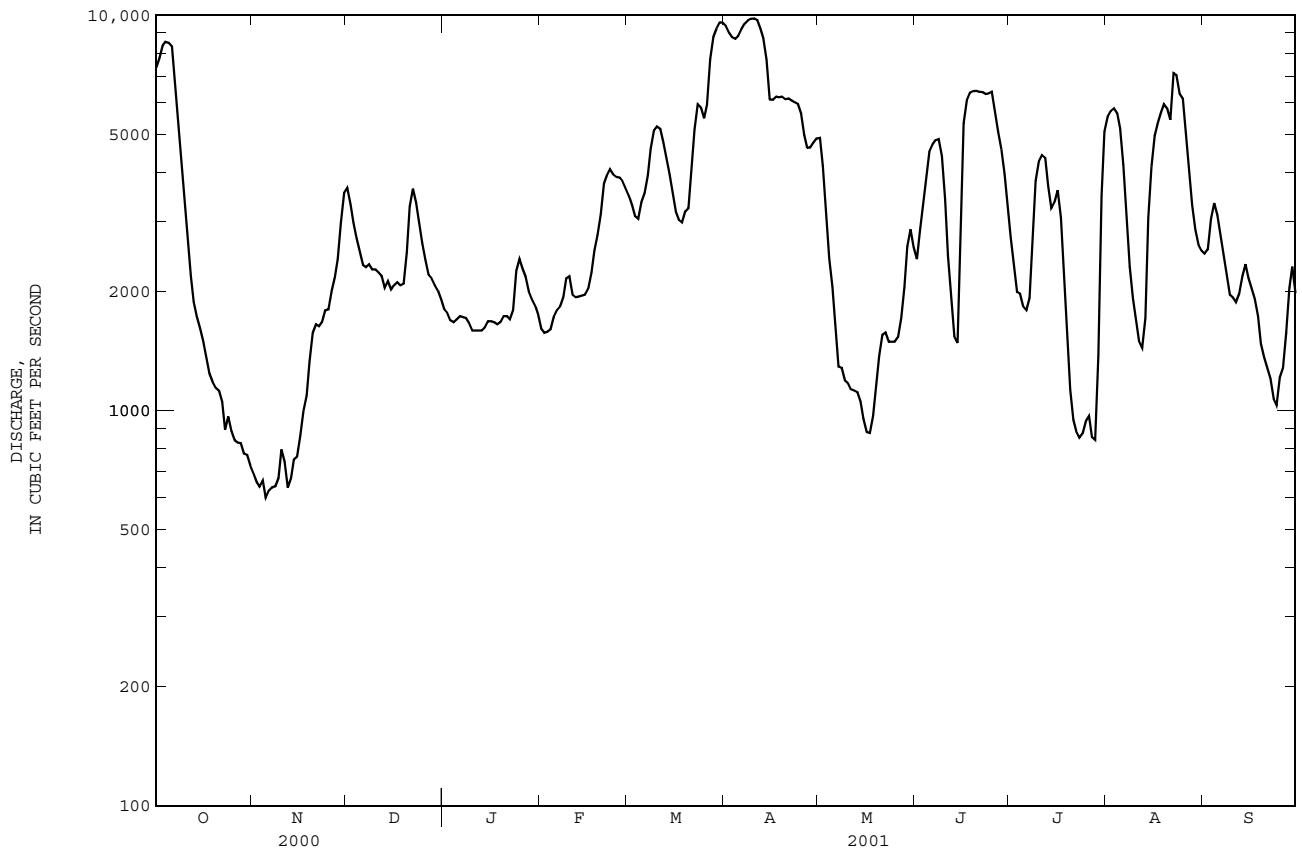
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	7601	2949	3374	5855	8865	6862	5838	2987	2106	1566	2508	7338
MAX	23040	6630	6969	8707	19110	15340	11760	5023	4499	2360	4482	26590
(WY)	2000	2000	1997	1998	1998	1998	1998	1997	2001	2001	2000	1999
MIN	1060	968	1764	1785	2546	3191	2739	1764	988	1126	840	1041
(WY)	1999	1999	1999	2001	2001	1999	1999	2001	1999	1999	1999	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1997 - 2001	
ANNUAL TOTAL	1367753		1163693			
ANNUAL MEAN	3737		3188		4793	
HIGHEST ANNUAL MEAN					5902	1998
LOWEST ANNUAL MEAN					3188	2001
HIGHEST DAILY MEAN	11200	Feb 3	9800	Apr 10	57000	Sep 20 1999
LOWEST DAILY MEAN	600	Nov 5	600	Nov 5	382	Jun 11 1999
ANNUAL SEVEN-DAY MINIMUM	639	Nov 2	639	Nov 2	534	Jun 9 1999
MAXIMUM PEAK FLOW			10400	Apr 10	e57200	Sep 20 1999
MAXIMUM PEAK STAGE			10.26	Apr 10	22.75*	Sep 20 1999
INSTANTANEOUS LOW FLOW			285	Jul 27	41	Jul 11 1999
10 PERCENT EXCEEDS	8340		6310		9880	
50 PERCENT EXCEEDS	2750		2310		2800	
90 PERCENT EXCEEDS	995		966		937	

e Estimated.
* See REMARKS.

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued



02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954 - 60, 1999 to current year.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: September 1954 to September 1960.

WATER TEMPERATURE: September 1954 to September 1960.

REMARKS.--Station operated in cooperation with the U.S. Environmental Protection Agency and the North Carolina Department of Environment and Natural Resources as part of a long-term project to develop a multimedia integrated modeling system (MIMS). Daily records of specific conductance for September 1954 to September 1960 are available in the files of the District Office in Raleigh, NC. Sample in September 1999 collected during flooding from Hurricane Floyd.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum daily, 673 microsiemens, Aug. 21, 1955; minimum daily, 39 microsiemens, Nov. 2, 1959.

WATER TEMPERATURE: Maximum daily, 35.0°C, June 28, 29, 1959; minimum daily, 0.0°C Jan. 13, 1955, Dec. 11, 1958.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)
OCT													
26...	1015	744	155	7.0	17.2	766	8.0	83	33	8.80	2.70	15.0	46
NOV													
14...	1530	740	169	6.7	14.6	--	8.2	--	33	8.70	2.80	17.0	49
DEC													
11...	1530	1940	141	6.8	6.5	770	10.8	87	30	7.70	2.60	12.0	41
JAN													
18...	0830	1620	132	6.9	8.8	773	--	--	28	7.50	2.30	11.0	42
FEB													
07...	0845	1880	127	7.0	8.0	775	11.3	94	30	7.90	2.40	12.0	43
27...	1345	3710	108	6.7	11.8	773	9.8	89	25	6.40	2.10	9.2	41
APR													
05...	0845	8690	79	6.3	12.9	777	7.7	72	20	5.00	1.80	6.0	36
JUL													
12...	1055	4390	74	6.2	27.4	767	5.3	66	17	4.50	1.50	5.6	36

DATE	SODIUM AD-SORP-TION RATIO (00931)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT													
26...	1	4.10	12.0	15.0	.2	9.2	97	90	--	--	<.010	.740	.070
NOV													
14...	1	4.60	13.0	17.0	.2	7.2	105	94	--	--	<.010	.650	.080
DEC													
11...	1.0	5.40	11.0	17.0	.1	7.9	88	81	--	--	<.010	.780	.030
JAN													
18...	.9	3.90	11.0	15.0	.1	6.0	87	75	.750	--	.010	.760	<.010
FEB													
07...	1.0	4.00	10.0	13.0	.1	5.1	99	74	--	--	<.010	.720	<.010
27...	.8	3.50	9.1	12.0	.1	5.4	77	63	--	<.01	<.010	.610	.015
APR													
05...	.6	2.90	7.4	8.0	<.1	4.7	67	47	--	--	<.010	.320	<.010
JUL													
12...	.6	3.00	6.8	6.3	.1	6.1	57	45	--	--	<.010	.280	.050

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT												
26...	.36	.28	.43	.35	1.2	1.1	.080	.030	.020	160	30.0	4.1
NOV												
14...	.58	.43	.66	.51	1.3	1.2	.060	.030	.030	270	26.0	4.0
DEC												
11...	.43	.38	.46	.41	1.2	1.2	.030	<.020	.030	350	16.0	5.5
JAN												
18...	--	--	.34	.22	1.1	.98	.050	.020	<.010	340	15.0	3.6
FEB												
07...	--	--	.47	.37	1.2	1.1	.040	.020	.030	420	17.0	4.1
27...	.55	.39	.57	.41	1.2	1.0	.080	.040	.050	470	18.0	7.8
APR												
05...	--	--	.58	.53	.90	.85	.050	<.020	.030	320	17.0	9.7
JUL												
12...	.57	.44	.62	.49	.90	.77	.110	.060	.030	180	17.0	8.9

0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC

LOCATION.--Lat 35°13'56", long 77°06'52", 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 sea level. Prior to Oct. 1999 datum reported as 10 ft below sea level. Satellite telemetry at station.

REMARKS.--Records are poor. Maximum gage height for period of record, from flood mark. 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. The published 24.0 hour 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	878	6.1	33	e20	12	217	529	81	315	58	391	91
2	499	-51	-174	33	69	172	378	47	400	1.6	583	-76
3	684	-21	169	16	-1.7	84	409	47	355	-6.2	199	210
4	223	44	175	15	60	175	64	47	222	66	129	82
5	138	-66	77	22	50	278	550	50	160	29	60	-70
6	174	73	73	17	109	437	492	-406	186	-28	58	94
7	4.5	-15	51	30	76	169	204	487	70	158	71	197
8	-14	-15	60	15	76	262	244	99	56	125	8.2	37
9	376	18	-32	-5.4	85	179	192	126	e100	8.9	81	66
10	152	1.5	167	e-20	-5.4	115	-123	92	e100	54	80	63
11	96	-52	70	14	30	245	501	91	70	114	48	34
12	4.7	-32	99	-19	171	124	256	63	e80	-57	34	-38
13	55	71	-11	-33	62	145	62	-129	40	155	86	95
14	13	45	319	31	112	74	173	89	224	3.0	150	-16
15	-4.6	-58	66	20	75	202	196	140	1110	80	555	-530
16	-6.3	31	136	20	131	158	-23	-123	1130	61	769	349
17	-50	25	229	-6.8	51	205	274	e150	1310	58	710	407
18	4.9	-27	90	30	186	68	167	e50	1390	58	493	114
19	-13	-88	164	28	252	-17	109	e-10	1700	-26	242	-81
20	e30	184	48	136	159	97	105	e70	1520	-34	184	116
21	e10	46	84	78	108	961	91	e170	e1000	56	234	10
22	e-50	-20	80	e60	223	1040	79	115	e600	210	277	8.1
23	e50	-32	9.5	e160	239	1240	67	-85	285	83	561	55
24	216	-48	e40	e100	217	1340	92	75	147	86	252	46
25	74	-98	16	79	372	698	48	172	e175	43	-16	-15
26	35	143	e30	51	95	768	89	37	267	-1.5	282	34
27	-78	29	48	37	365	379	239	e100	167	-229	242	38
28	-26	12	15	77	235	319	-172	e50	152	284	81	-31
29	128	14	-9.1	38	---	229	267	e50	111	179	37	-64
30	-31	11	87	65	---	402	101	e100	68	57	122	15
31	-46	---	e10	56	---	450	---	91	---	542	111	---
TOTAL	3526.2	130.6	2219.4	1163.8	3612.9	11215	5660	1936	13510	2187.8	7114.2	1240.1
MEAN	114	4.35	71.6	37.5	129	362	189	62.5	450	70.6	229	41.3
MAX	878	184	319	160	372	1340	550	487	1700	542	769	407
MIN	-78	-98	-174	-33	-5.4	-17	-172	-406	40	-229	-16	-530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

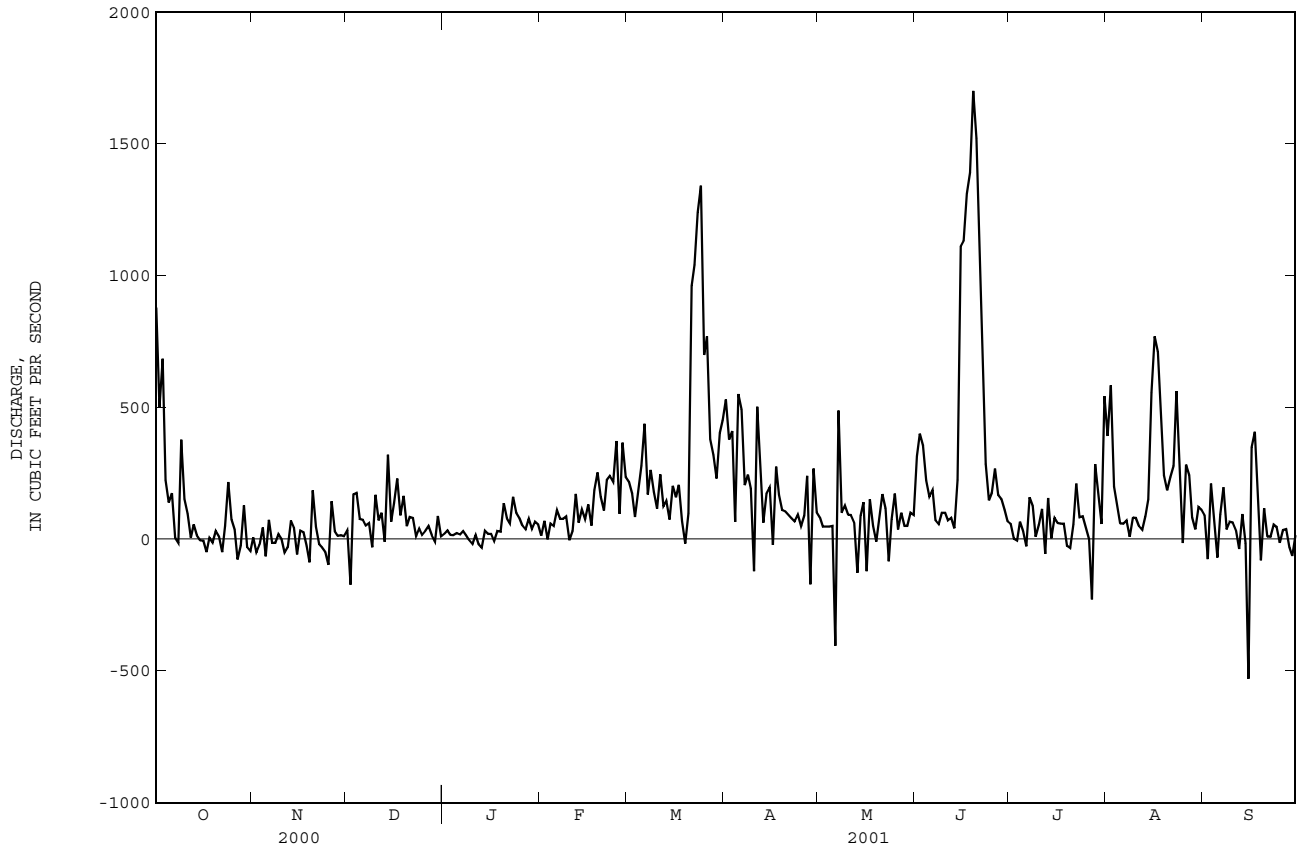
MEAN	493	100	182	431	617	374	239	203	182	222	167	1147
MAX	1657	253	276	912	1715	558	394	450	450	594	303	3943
(WY)	2000	2000	1998	1998	1998	1998	1998	1998	2001	1996	1998	1999
MIN	-61.1	-2.99	71.6	37.5	129	259	90.8	62.5	30.1	62.9	-19.2	41.3
(WY)	1999	1999	2001	2001	2001	1999	1997	2001	1997	1997	1999	2001

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	118498.05		53516.0			
ANNUAL MEAN	324		147		349	
HIGHEST ANNUAL MEAN					477	2000
LOWEST ANNUAL MEAN					147	2001
HIGHEST DAILY MEAN	2740	Sep 8	1700	Jun 19	e10600	Sep 21 1999
LOWEST DAILY MEAN	-226	May 30	-530	Sep 15	-1970	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	-24	Oct 30	-47	Sep 9	-321	Aug 29 1999
MAXIMUM PEAK FLOW			2620	Mar 21	10900	Sep 21 1999
MAXIMUM PEAK STAGE			3.43	Mar 21	12.28*	Sep 21 1999
INSTANTANEOUS LOW FLOW			-1600	Mar 21	-5140	Aug 30 1999
10 PERCENT EXCEEDS	982		384		890	
50 PERCENT EXCEEDS	156		77		140	
90 PERCENT EXCEEDS	-.39		-26		-16	

e Estimated.
* See REMARKS.

Note. -- Negative values indicate reverse flow.

0209205053 SWIFT CREEK AT NC HIGHWAY 43 NEAR STREETS FERRY, NC--Continued



02092162 NEUSE RIVER AT NEW BERN, NC

LOCATION.--Lat 35°06'33", long 77°01'59", 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. 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported only as <10%. Daily records of salinity and water temperature for October 1956 to September 1967 are available in the files of the District Office in Raleigh, NC.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	21.1, August 15, 2001	<0.1, on many days during the period
SALINITY (BOTOM), ppt	19.2, August 15, 2000	<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), °C	33.4, August 1, 1999	1.0, January 29, 2000
WATER TEMPERATURE (BOTTOM), °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	21.1, August 15	<0.1, on many days during the year
SALINITY (BOTTOM), ppt	18.0, August 16	<0.1, on many days during the year
pH (TOP), standard units	8.9, May 6, July 31	6.1, October 3
pH (BOTTOM), standard units	8.4, May 7	6.0, October 5, 6, March 28, 31
WATER TEMPERATURE (TOP), °C	32.7, June 27	4.6, January 11
WATER TEMPERATURE (BOTTOM), °C	31.2, August 10	3.1, December 31, January 1
DISSOLVED OXYGEN (TOP), mg/L	16.9, January 15	<1.0, on several days during the year
DISSOLVED OXYGEN (BOTTOM), mg/L	12.5, January 11	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	155, July 31	<10, on several days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	116, May 7	<10, on many days during the year

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.81	.34	.52	4.2	2.8	3.3	3.8	.98	1.7	---	---	---
2	.86	.27	.58	4.0	2.4	2.8	4.4	.45	1.2	---	---	---
3	1.1	.20	.48	---	---	---	4.1	1.0	2.8	---	---	---
4	.26	.05	.12	6.1	3.2	5.0	2.3	1.0	1.8	---	---	---
5	.08	.04	.05	5.6	2.2	3.8	2.7	.84	1.4	---	---	---
6	.05	.04	.04	6.4	3.5	4.9	---	---	---	---	---	---
7	.20	.04	.12	6.0	4.3	5.1	---	---	---	---	---	---
8	.88	.16	.44	5.8	3.2	4.0	---	---	---	---	---	---
9	1.3	.33	.72	5.3	.87	3.6	---	---	---	---	---	---
10	1.0	.33	.63	4.3	.75	2.1	---	---	---	---	---	---
11	.60	.16	.33	4.8	.87	3.3	---	---	---	---	---	---
12	3.0	.14	.32	3.7	2.7	3.0	---	---	---	4.4	1.3	2.2
13	6.7	.19	1.8	6.0	2.4	3.9	---	---	---	4.5	2.3	3.0
14	6.4	1.9	4.4	4.1	2.3	2.9	---	---	---	6.5	2.5	4.0
15	6.6	.71	3.8	4.0	2.5	3.3	---	---	---	6.7	1.6	3.1
16	6.7	1.1	5.6	5.5	2.6	3.7	---	---	---	6.2	1.8	2.3
17	6.6	1.8	5.6	5.4	2.2	3.1	---	---	---	6.5	2.0	2.5
18	6.9	2.8	4.5	7.2	2.9	4.4	---	---	---	6.6	2.1	2.7
19	6.7	3.2	4.2	5.7	3.1	3.9	---	---	---	7.3	2.2	3.9
20	7.7	4.8	6.3	6.5	3.0	5.0	---	---	---	3.8	2.6	3.2
21	7.6	3.3	6.2	5.3	2.7	4.0	---	---	---	3.8	1.0	2.5
22	8.2	1.9	4.1	5.6	4.0	4.7	---	---	---	2.0	.84	1.0
23	8.9	1.6	5.3	6.6	2.2	3.5	---	---	---	3.6	1.1	2.5
24	6.6	4.2	5.3	8.4	1.2	3.2	---	---	---	4.1	2.7	3.4
25	6.7	2.8	4.8	8.3	1.3	4.4	---	---	---	---	---	---
26	5.6	3.6	4.2	5.6	2.3	3.7	---	---	---	---	---	---
27	5.3	3.4	3.9	7.0	1.7	3.2	---	---	---	3.7	2.1	2.7
28	5.5	4.3	4.9	7.2	1.5	2.8	---	---	---	2.2	1.0	1.4
29	5.4	4.8	5.0	5.2	1.3	3.3	---	---	---	2.1	.76	1.4
30	5.1	4.0	4.7	2.9	.90	2.0	---	---	---	2.0	.73	1.3
31	4.9	4.0	4.5	---	---	---	---	---	---	1.7	1.2	1.5
MONTH	8.9	.04	3.0	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	.48	.96	.26	.07	.14	.04	.04	.04	.08	.05	.06
2	1.7	.39	.78	.21	.06	.09	.05	.04	.04	.06	.05	.06
3	2.3	1.4	1.9	.14	.08	.11	.05	.04	.04	.07	.05	.06
4	2.1	1.7	1.9	1.8	.10	.43	.04	.04	.04	.07	.06	.06
5	3.5	1.3	2.5	2.4	.44	1.1	.04	.04	.04	.08	.06	.07
6	3.1	1.3	2.1	2.5	.36	1.4	.04	.04	.04	3.2	.07	1.0
7	2.3	.95	1.6	2.5	.64	1.7	.05	.04	.04	2.6	.48	1.2
8	2.9	.82	1.3	.94	.35	.45	.04	.04	.04	1.6	.33	.61
9	1.8	.55	.94	.70	.36	.50	.04	.03	.04	1.7	.41	.74
10	1.2	.61	.82	.91	.34	.55	.04	.04	.04	1.8	.54	.80
11	1.3	.48	.82	.44	.19	.31	.04	.04	.04	1.1	.56	.82
12	.78	.28	.53	.34	.16	.25	.04	.04	.04	1.2	.43	.78
13	1.9	.34	1.1	.47	.18	.33	.05	.04	.04	1.6	.53	1.1
14	2.6	.50	1.5	.31	.09	.21	.04	.04	.04	2.9	.42	.95
15	2.0	.62	1.0	.25	.06	.15	.05	.04	.04	2.9	.88	1.3
16	1.4	.53	.84	.36	.08	.17	2.7	.05	.43	5.0	.67	1.3
17	2.8	.56	1.5	.30	.06	.10	3.0	.20	.66	2.6	1.2	1.6
18	2.3	.76	1.2	.80	.24	.48	.48	.06	.16	2.2	.80	1.3
19	2.3	.47	.79	.45	.22	.33	.32	.05	.12	2.1	.74	1.2
20	.77	.36	.53	2.6	.36	1.2	.07	.05	.06	3.0	1.0	1.5
21	.72	.28	.46	2.9	.10	.98	.05	.05	.05	1.8	1.2	1.4
22	2.7	.54	1.4	.17	.08	.11	.06	.05	.05	1.6	.73	1.2
23	1.9	.28	.86	.25	.07	.14	.06	.05	.05	2.3	.78	1.5
24	.71	.23	.39	.08	.04	.06	.06	.05	.05	2.4	.70	1.1
25	.53	.16	.33	.18	.04	.06	.14	.05	.06	1.5	.60	1.1
26	1.0	.10	.34	.07	.04	.05	.06	.05	.05	1.6	.58	.98
27	.48	.08	.18	.06	.04	.04	.06	.05	.05	1.6	.18	.70
28	.71	.06	.20	.04	.04	.04	.86	.05	.19	.57	.18	.35
29	---	---	---	.04	.04	.04	.44	.06	.09	.59	.11	.33
30	---	---	---	.05	.04	.04	.09	.06	.07	4.9	.20	.63
31	---	---	---	.04	.04	.04	---	---	---	6.8	1.4	2.2
MONTH	3.5	.06	1.0	2.9	.04	.37	3.0	.03	.09	6.8	.05	.90

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1.4	.55	1.1	.39	.14	.29	9.1	.74	2.6	15.1	1.3	6.8
2	.90	.38	.67	3.4	.12	1.0	3.8	.83	1.8	15.3	9.2	12.8
3	.48	.14	.34	---	---	---	2.8	.47	.97	---	---	---
4	.74	.16	.37	---	---	---	.71	.11	.32	9.6	2.6	7.1
5	.59	.15	.35	---	---	---	.28	.06	.13	13.6	1.7	7.2
6	.75	.14	.30	4.4	.41	.98	.10	.06	.07	12.2	2.2	7.1
7	.44	.15	.28	1.8	.68	.94	.11	.05	.07	9.3	3.1	5.6
8	.63	.18	.37	1.3	.26	.53	.09	.06	.07	5.1	3.4	3.8
9	3.1	.41	1.0	1.6	.20	.38	.38	.07	.17	---	---	---
10	2.2	.35	.74	1.6	.26	.71	.17	.07	.09	3.8	1.9	2.5
11	.64	.31	.42	.46	.28	.38	.26	.07	.16	3.6	1.0	1.5
12	.60	.27	.45	4.0	.28	.99	.29	.09	.17	---	---	---
13	.74	.42	.56	1.0	.52	.68	.46	.08	.25	9.0	2.4	5.8
14	2.4	.73	1.5	1.2	.63	.86	.44	.11	.24	7.3	1.8	4.3
15	1.4	.19	.61	3.2	.67	1.2	21.1	.21	4.8	7.2	4.8	5.8
16	.32	.07	.17	2.1	.72	1.1	17.3	2.7	7.9	7.6	6.4	7.0
17	.28	.10	.18	1.2	.82	.94	3.7	1.1	1.7	6.8	4.0	6.1
18	.33	.10	.19	1.3	.57	.89	1.3	.70	.95	7.5	5.9	6.6
19	.78	.15	.33	---	---	---	1.2	.61	.84	7.7	4.8	6.1
20	.29	.09	.17	---	---	---	.78	.31	.51	6.2	3.9	4.5
21	.19	.05	.09	---	---	---	.47	.11	.27	5.0	2.9	3.8
22	.08	.04	.05	---	---	---	2.7	.14	.57	6.6	2.5	4.0
23	.06	.04	.05	---	---	---	1.9	.44	.84	8.3	2.5	5.1
24	.05	.04	.05	---	---	---	.83	.22	.48	5.0	2.3	3.4
25	.06	.04	.04	---	---	---	16.7	.23	5.0	3.7	2.5	3.0
26	.10	.04	.05	---	---	---	17.3	1.9	8.2	5.1	2.6	3.6
27	.05	.04	.04	5.1	1.6	2.9	9.6	1.8	4.4	---	---	---
28	.06	.04	.05	3.9	2.1	2.8	2.4	.88	1.6	7.7	3.3	4.9
29	.36	.05	.08	5.5	1.9	3.3	1.9	.82	1.1	6.6	5.5	6.0
30	.46	.09	.18	2.9	1.1	2.2	---	---	---	7.2	5.7	6.6
31	---	---	---	6.7	.90	2.1	---	---	---	---	---	---
MONTH	3.1	.04	.36	---	---	---	---	---	---	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.2	7.8	9.5	5.0	4.5	4.8	7.0	6.1	6.5	7.5	3.1	6.3
2	9.8	.93	6.1	5.8	4.8	5.1	7.0	5.9	6.5	7.8	5.8	7.3
3	7.0	.41	2.0	---	---	---	6.8	2.1	4.4	7.6	5.6	7.1
4	.69	.09	.27	6.4	5.9	6.1	3.8	1.7	2.7	7.2	6.0	6.6
5	.14	.04	.07	6.6	5.9	6.3	4.1	2.9	3.5	7.2	2.9	6.0
6	.28	.04	.05	6.6	6.2	6.4	---	---	---	8.0	4.6	6.1
7	5.6	.06	2.9	6.5	5.4	6.2	---	---	---	9.3	6.8	8.4
8	5.9	.61	3.2	6.5	5.8	6.2	---	---	---	10.3	8.9	9.7
9	5.3	.60	1.4	6.4	4.0	5.7	---	---	---	11.8	10.0	11.0
10	1.9	.75	1.2	4.8	3.3	4.1	---	---	---	11.7	8.5	10.5
11	6.2	.50	3.1	5.1	4.3	4.8	---	---	---	10.6	8.1	9.5
12	6.9	5.7	6.5	6.6	3.7	5.4	---	---	---	11.1	9.2	10.4
13	7.0	6.7	6.8	7.2	4.4	6.3	---	---	---	12.2	10.2	11.5
14	6.8	6.7	6.8	7.5	5.3	6.4	---	---	---	---	---	---
15	6.7	6.7	6.7	9.8	6.6	8.6	---	---	---	11.2	9.7	10.7
16	6.7	6.6	6.7	9.7	8.1	9.0	---	---	---	11.8	9.7	11.1
17	6.7	6.5	6.6	9.0	6.6	8.2	---	---	---	11.8	11.3	11.6
18	7.9	3.5	6.8	9.0	6.0	7.9	---	---	---	11.7	11.0	11.4
19	9.2	7.7	8.4	9.1	7.4	8.3	---	---	---	11.5	4.4	9.7
20	9.2	8.3	8.9	9.1	5.7	7.0	---	---	---	5.7	3.1	4.1
21	9.3	8.7	9.2	7.6	4.9	6.4	---	---	---	7.4	2.7	5.0
22	9.6	8.6	9.1	7.9	5.6	6.6	6.0	2.7	4.7	9.3	6.9	8.3
23	9.4	6.1	8.3	8.7	6.3	7.5	3.7	1.5	3.2	10.0	7.9	9.5
24	9.0	7.6	8.6	8.8	8.2	8.5	4.2	3.6	4.0	9.8	7.0	9.1
25	8.9	7.2	8.2	8.8	4.2	7.9	4.5	1.6	2.6	---	---	---
26	8.6	6.8	7.9	7.4	5.3	6.4	4.1	.97	2.3	---	---	---
27	8.0	4.7	6.4	7.5	6.4	7.1	5.9	3.8	5.1	7.5	3.9	5.5
28	6.9	5.0	6.1	7.5	6.6	7.2	7.3	4.4	6.3	8.7	7.5	8.1
29	5.4	4.8	5.1	7.4	4.7	6.9	7.4	5.3	6.7	10.1	8.5	9.4
30	5.3	4.7	5.0	7.1	4.7	6.2	7.2	5.9	6.9	9.9	1.2	5.1
31	5.1	4.2	4.8	---	---	---	7.1	3.1	5.5	5.0	1.3	2.5
MONTH	10.2	.04	5.6	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.2	3.8	6.2	3.3	.14	1.1	.04	.03	.04	.10	.05	.06
2	9.1	7.5	8.3	4.6	1.4	3.0	.05	.03	.04	.10	.05	.06
3	9.6	8.8	9.3	5.7	4.1	5.1	.05	.03	.04	.20	.05	.07
4	9.4	8.5	9.2	6.2	4.7	5.7	.04	.03	.04	.14	.06	.07
5	9.3	7.2	8.5	5.4	1.8	3.5	.04	.03	.04	.37	.06	.08
6	8.8	7.1	8.3	2.9	.87	2.0	.04	.03	.04	4.3	.10	2.0
7	8.7	5.9	7.9	5.8	1.8	3.8	.05	.03	.04	3.8	.54	1.6
8	8.1	3.5	6.3	5.9	3.4	5.3	.04	.03	.04	4.1	.92	2.6
9	7.2	1.5	4.2	5.2	1.7	3.5	.03	.03	.03	4.0	1.3	2.4
10	3.4	.85	1.6	5.1	2.3	4.5	.04	.03	.03	5.2	1.6	2.9
11	5.9	1.8	4.0	5.1	4.2	4.7	.04	.03	.03	3.0	.66	1.8
12	6.5	3.8	5.6	7.5	2.2	5.8	.04	.03	.04	1.3	.50	.99
13	7.2	3.9	5.9	4.8	.21	.47	.05	.04	.04	2.6	.68	1.4
14	7.1	3.9	6.0	1.5	.23	.68	.04	.04	.04	4.8	.96	2.6
15	7.6	3.4	5.7	1.6	.06	.60	.04	.04	.04	4.8	1.6	3.2
16	8.0	2.9	6.5	.76	.10	.33	5.0	.04	1.6	5.9	4.1	5.2
17	4.9	1.1	3.3	3.0	.09	.87	4.5	.28	1.0	5.7	4.1	5.1
18	6.3	2.4	4.7	3.3	.48	1.5	.63	.05	.24	5.9	2.6	5.1
19	7.0	3.2	5.3	5.1	2.1	3.9	.43	.06	.17	5.3	3.4	4.1
20	5.6	2.5	4.4	---	---	---	.07	.05	.05	5.5	2.0	4.6
21	8.1	2.5	5.7	---	---	---	.05	.05	.05	4.5	1.3	2.6
22	8.1	2.1	5.9	---	---	---	.06	.05	.05	2.0	.91	1.6
23	4.0	2.2	3.2	---	---	---	.06	.05	.05	2.5	1.1	1.8
24	5.0	3.6	4.2	---	---	---	.05	.05	.05	3.6	1.6	2.8
25	4.4	.24	2.1	---	---	---	.14	.05	.06	2.7	1.2	1.9
26	1.3	.21	.85	---	---	---	.06	.05	.05	1.9	1.1	1.5
27	1.5	.08	.54	---	---	---	.06	.05	.05	2.1	.19	1.2
28	1.7	.12	.56	.04	.03	.04	5.1	.05	.90	1.1	.18	.76
29	---	---	---	.04	.03	.03	2.7	.08	.45	3.7	.59	1.9
30	---	---	---	.04	.03	.04	.12	.06	.08	7.5	2.8	4.8
31	---	---	---	.04	.03	.04	---	---	---	8.6	5.8	7.7
MONTH	9.6	.08	5.2	---	---	---	5.1	.03	.18	8.6	.05	2.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	.85	4.4	3.8	.32	1.4	10.0	8.3	9.5	15.3	14.1	14.9
2	2.6	.67	1.6	8.3	.30	3.6	9.3	5.4	8.2	15.4	14.9	15.2
3	5.8	.40	2.4	---	---	---	7.7	1.8	5.8	15.1	14.7	14.8
4	7.4	.73	5.2	---	---	---	4.3	.18	2.6	14.8	14.1	14.6
5	3.6	.33	1.3	---	---	---	4.0	.07	.79	15.7	14.4	15.1
6	4.8	.40	2.1	7.1	1.5	4.5	3.6	.07	.39	15.7	13.5	14.5
7	6.5	2.0	4.1	7.1	3.8	5.6	3.3	.06	.53	14.7	10.6	13.6
8	8.0	6.2	7.3	5.2	1.3	3.7	5.6	.06	.66	13.8	9.5	12.1
9	9.9	8.0	9.2	8.5	3.9	7.1	3.6	.07	.55	---	---	---
10	10.2	7.5	9.5	8.4	3.5	7.0	.24	.08	.13	7.6	3.4	6.0
11	9.0	.90	6.3	7.4	1.9	5.1	.57	.08	.20	11.3	5.0	8.7
12	7.4	.53	2.8	7.7	5.9	7.2	.32	.09	.22	---	---	---
13	9.1	.44	4.7	7.6	6.0	7.1	.61	.08	.37	10.8	9.7	10.4
14	2.4	.72	1.7	8.2	5.9	7.7	12.3	.17	5.4	10.9	6.8	9.5
15	1.7	.39	.76	8.1	6.1	7.5	17.6	12.3	15.1	8.3	5.6	7.4
16	4.4	.32	1.9	7.6	6.6	7.3	18.0	15.3	17.4	7.5	6.5	7.0
17	6.8	3.0	5.5	7.5	3.0	6.5	16.9	10.5	15.8	7.0	6.1	6.6
18	9.9	6.8	8.6	6.8	1.0	5.4	15.7	1.2	8.3	8.4	7.0	7.5
19	9.9	4.0	8.5	---	---	---	12.2	1.9	7.6	9.5	5.6	8.4
20	7.7	.25	3.1	---	---	---	1.9	.41	.98	8.8	5.9	7.6
21	1.3	.06	.22	---	---	---	16.5	.64	11.7	8.5	5.8	7.3
22	.11	.04	.06	---	---	---	17.4	15.3	16.7	10.2	7.0	9.1
23	.05	.04	.04	---	---	---	16.8	9.0	14.6	10.4	8.8	9.7
24	.05	.04	.05	---	---	---	16.9	2.9	11.2	9.9	4.1	7.7
25	.07	.04	.05	---	---	---	17.5	16.5	17.0	9.6	5.4	7.4
26	.12	.04	.05	---	---	---	17.6	16.9	17.2	11.3	9.6	10.5
27	.08	.04	.05	5.7	2.4	3.9	17.2	10.9	16.4	---	---	---
28	.84	.04	.22	6.8	3.2	5.3	16.3	5.9	14.0	14.9	12.8	14.0
29	8.5	.09	5.1	8.3	3.5	6.2	15.1	7.6	13.4	14.9	14.1	14.6
30	9.0	2.2	7.3	9.1	3.2	6.2	---	---	---	14.8	10.7	12.0
31	---	---	---	9.7	8.1	9.1	15.3	12.7	14.5	---	---	---
MONTH	10.2	.04	3.5	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.6	6.3	6.4	7.9	7.4	7.7	7.5	7.1	7.3	---	---	---
2	6.6	6.3	6.4	7.7	7.1	7.5	7.5	6.8	7.0	---	---	---
3	6.4	6.1	6.3	---	---	---	7.5	7.2	7.4	---	---	---
4	6.3	6.2	6.2	7.5	6.9	7.1	7.5	7.1	7.3	---	---	---
5	6.4	6.3	6.3	7.6	6.9	7.3	7.3	7.1	7.2	---	---	---
6	6.4	6.3	6.4	7.5	7.1	7.3	---	---	---	---	---	---
7	6.5	6.4	6.4	7.4	6.9	7.1	---	---	---	---	---	---
8	6.7	6.4	6.5	7.6	6.9	7.3	---	---	---	---	---	---
9	6.7	6.4	6.6	7.6	6.7	7.0	---	---	---	---	---	---
10	6.8	6.6	6.7	7.3	6.8	7.1	---	---	---	---	---	---
11	6.9	6.6	6.7	7.4	7.1	7.2	---	---	---	---	---	---
12	6.8	6.6	6.7	7.3	7.2	7.2	---	---	---	---	---	---
13	6.8	6.6	6.8	7.3	7.0	7.2	---	---	---	---	---	---
14	6.9	6.7	6.8	7.2	7.0	7.1	---	---	---	---	---	---
15	6.9	6.7	6.8	7.2	7.1	7.1	---	---	---	---	---	---
16	7.0	6.7	6.8	7.5	7.0	7.1	---	---	---	---	---	---
17	7.0	6.7	6.8	7.4	7.1	7.2	---	---	---	---	---	---
18	7.1	6.8	7.0	7.4	7.1	7.3	---	---	---	---	---	---
19	7.1	6.9	7.0	7.5	7.2	7.4	---	---	---	---	---	---
20	7.1	6.8	6.9	7.7	7.3	7.4	---	---	---	---	---	---
21	7.2	6.8	7.0	7.7	7.4	7.5	---	---	---	---	---	---
22	7.4	6.9	7.2	7.7	7.5	7.7	---	---	---	---	---	---
23	7.5	6.9	7.2	7.9	7.5	7.6	---	---	---	---	---	---
24	7.4	7.1	7.2	7.6	7.3	7.5	---	---	---	---	---	---
25	7.9	7.1	7.2	7.8	7.3	7.5	---	---	---	---	---	---
26	7.4	7.1	7.3	7.7	7.4	7.6	---	---	---	---	---	---
27	7.4	7.0	7.2	7.7	7.3	7.5	---	---	---	---	---	---
28	7.7	7.1	7.4	7.7	7.2	7.4	---	---	---	---	---	---
29	8.0	7.3	7.6	7.7	7.2	7.4	---	---	---	---	---	---
30	8.1	7.3	7.7	7.5	7.1	7.3	---	---	---	---	---	---
31	8.0	7.4	7.7	---	---	---	---	---	---	---	---	---
MONTH	8.1	6.1	6.9	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	7.1	6.9	7.0	6.8	6.6	6.6	7.1	7.0	7.0
2	---	---	---	7.0	6.9	6.9	6.9	6.7	6.8	7.2	7.0	7.1
3	---	---	---	7.0	6.9	6.9	6.8	6.7	6.7	7.4	7.0	7.1
4	---	---	---	7.1	6.9	7.0	6.8	6.6	6.7	8.6	6.8	7.2
5	---	---	---	7.1	6.9	7.0	6.8	6.7	6.7	8.5	6.9	7.4
6	---	---	---	7.4	7.1	7.3	6.8	6.7	6.8	8.9	7.1	7.8
7	---	---	---	7.5	7.3	7.4	6.9	6.6	6.8	8.8	7.5	7.9
8	---	---	---	7.4	7.1	7.2	6.7	6.6	6.6	7.9	7.1	7.4
9	---	---	---	7.2	7.0	7.1	6.6	6.5	6.6	7.9	6.8	7.2
10	---	---	---	7.1	6.9	7.1	6.7	6.5	6.6	7.2	6.7	6.9
11	---	---	---	7.1	6.9	7.0	6.7	6.6	6.6	7.3	6.7	6.9
12	7.4	7.2	7.3	7.0	6.9	7.0	6.6	6.5	6.6	7.1	6.7	6.8
13	7.3	7.1	7.2	7.2	6.9	7.1	6.8	6.6	6.7	7.6	6.8	7.2
14	7.2	7.1	7.2	7.2	7.1	7.2	6.7	6.6	6.6	8.0	6.9	7.3
15	7.2	7.1	7.2	7.2	7.0	7.1	6.7	6.6	6.6	7.5	6.9	7.2
16	7.3	7.1	7.2	7.2	7.0	7.1	6.9	6.7	6.8	7.4	6.6	7.0
17	7.3	7.1	7.3	7.2	7.0	7.1	6.9	6.7	6.8	7.3	6.9	7.1
18	7.4	7.2	7.3	7.2	7.1	7.1	7.0	6.8	6.9	7.0	6.8	6.9
19	7.3	7.2	7.2	7.2	7.1	7.1	7.1	6.8	6.9	7.3	6.9	7.1
20	7.2	7.1	7.1	---	---	---	7.0	6.8	6.9	7.9	6.9	7.3
21	7.2	7.1	7.2	---	---	---	7.0	6.9	6.9	7.1	6.8	7.0
22	7.3	7.1	7.2	---	---	---	7.0	6.8	6.9	7.3	6.9	7.0
23	7.3	7.0	7.1	---	---	---	7.0	6.9	6.9	7.3	6.8	7.0
24	7.1	6.9	7.0	---	---	---	7.1	6.9	7.0	7.4	6.7	7.1
25	7.1	6.9	7.0	---	---	---	7.2	7.0	7.1	7.3	6.8	7.0
26	7.2	7.0	7.1	---	---	---	7.2	7.0	7.1	7.1	7.0	7.0
27	7.1	7.0	7.0	---	---	---	7.2	6.8	7.0	7.2	6.7	7.0
28	7.1	6.9	7.0	6.7	6.5	6.6	7.5	6.9	7.1	7.2	7.0	7.1
29	---	---	---	6.7	6.5	6.6	7.4	7.1	7.1	7.3	7.0	7.1
30	---	---	---	6.9	6.6	6.7	7.2	7.0	7.1	7.2	6.5	7.1
31	---	---	---	6.7	6.5	6.6	---	---	---	7.3	6.4	7.0
MONTH	---	---	---	---	---	---	7.5	6.5	6.8	8.9	6.4	7.1

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.2	7.1	7.1	7.4	6.8	7.0	8.0	6.7	7.2	7.5	6.8	7.1
2	7.3	7.0	7.1	7.2	6.9	7.1	7.9	6.8	7.1	7.6	7.1	7.3
3	7.1	6.9	7.0	---	---	---	7.5	6.8	7.0	---	---	---
4	7.4	7.0	7.2	---	---	---	7.4	6.7	6.9	7.3	7.0	7.1
5	7.3	6.9	7.1	---	---	---	7.0	6.8	6.9	7.5	7.0	7.2
6	7.1	6.9	7.0	7.8	6.7	7.2	7.1	6.7	6.9	7.3	6.5	6.9
7	7.2	6.9	7.0	8.4	7.0	7.5	6.8	6.6	6.7	7.0	6.6	6.8
8	7.1	6.8	6.9	7.7	7.0	7.2	7.1	6.6	6.8	7.3	6.7	7.0
9	6.9	6.5	6.7	7.2	6.8	7.1	7.1	6.7	6.9	---	---	---
10	6.8	6.5	6.7	7.4	6.8	7.1	7.5	6.8	7.0	7.2	6.8	7.0
11	7.0	6.7	6.8	7.8	7.1	7.3	7.7	6.8	7.2	7.6	6.9	7.2
12	7.0	6.6	6.8	7.3	6.7	7.1	7.7	6.8	7.2	---	---	---
13	7.2	6.7	7.0	7.3	6.8	7.0	7.3	6.9	7.1	7.4	6.6	6.9
14	7.4	7.0	7.1	7.1	6.8	6.9	7.2	6.9	7.0	7.3	6.6	6.9
15	7.2	6.7	6.9	7.2	6.8	6.9	7.1	6.8	6.9	7.4	6.9	7.2
16	6.9	6.7	6.8	7.2	6.8	7.0	6.9	6.6	6.7	7.8	7.0	7.3
17	6.9	6.6	6.8	8.0	7.0	7.3	6.9	6.6	6.7	7.2	6.8	6.9
18	6.8	6.5	6.7	8.3	7.0	7.3	6.8	6.6	6.7	7.0	6.6	6.8
19	6.8	6.4	6.6	---	---	---	6.8	6.6	6.7	7.1	6.6	6.7
20	6.6	6.4	6.5	---	---	---	6.8	6.6	6.6	7.6	6.6	6.9
21	6.7	6.5	6.6	---	---	---	6.7	6.6	6.6	7.5	6.6	6.8
22	6.7	6.5	6.6	---	---	---	6.7	6.4	6.5	6.9	6.6	6.7
23	6.7	6.6	6.6	---	---	---	6.5	6.2	6.4	6.9	6.7	6.8
24	6.7	6.6	6.6	---	---	---	6.4	6.2	6.3	7.9	6.8	7.1
25	6.8	6.6	6.7	---	---	---	7.1	6.3	6.6	7.7	7.0	7.3
26	6.9	6.6	6.8	---	---	---	7.3	6.6	6.9	7.4	7.1	7.2
27	6.8	6.5	6.6	8.1	7.0	7.5	6.8	6.3	6.5	---	---	---
28	6.8	6.6	6.7	8.6	7.2	7.8	6.8	6.6	6.7	7.6	7.2	7.4
29	6.9	6.6	6.7	8.4	6.8	7.3	6.8	6.6	6.7	8.0	7.3	7.6
30	6.9	6.7	6.8	7.9	7.1	7.5	---	---	---	8.6	7.7	8.0
31	---	---	---	8.9	6.8	7.5	---	---	---	---	---	---
MONTH	7.4	6.4	6.8	---	---	---	---	---	---	---	---	---

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.8	6.7	6.8	7.4	7.1	7.3	7.3	7.2	7.3	7.5	7.3	7.4
2	6.8	6.5	6.7	7.4	7.0	7.2	7.5	7.2	7.3	7.6	7.2	7.4
3	6.6	6.3	6.5	---	---	---	7.5	7.1	7.3	7.5	7.3	7.4
4	6.4	6.1	6.3	7.1	6.8	7.0	7.2	7.0	7.1	7.6	7.3	7.4
5	6.2	6.0	6.1	7.3	6.9	7.2	7.2	7.1	7.1	7.6	7.3	7.4
6	6.2	6.0	6.0	7.1	6.8	7.0	---	---	---	7.4	7.3	7.3
7	6.8	6.1	6.5	6.9	6.7	6.8	---	---	---	7.4	7.2	7.3
8	6.8	6.5	6.6	6.7	6.6	6.7	---	---	---	7.2	7.1	7.2
9	6.8	6.5	6.7	6.7	6.6	6.6	---	---	---	7.3	7.1	7.2
10	6.8	6.6	6.7	7.1	6.7	6.9	---	---	---	7.4	7.2	7.3
11	6.7	6.5	6.6	7.3	6.9	7.1	---	---	---	7.4	7.0	7.2
12	6.7	6.6	6.7	7.2	6.8	7.0	---	---	---	7.2	7.0	7.1
13	6.8	6.7	6.7	6.9	6.8	6.8	---	---	---	7.2	7.1	7.1
14	6.7	6.7	6.7	6.9	6.7	6.8	---	---	---	7.2	7.1	7.1
15	6.7	6.5	6.6	6.9	6.7	6.8	---	---	---	7.6	7.1	7.2
16	6.5	6.5	6.5	7.0	6.6	6.8	---	---	---	7.4	7.0	7.1
17	6.5	6.4	6.5	7.1	6.9	7.0	---	---	---	7.2	7.0	7.1
18	6.5	6.4	6.5	7.2	6.9	7.1	---	---	---	7.3	7.0	7.1
19	6.5	6.5	6.5	7.2	7.1	7.1	---	---	---	7.9	7.1	7.3
20	6.5	6.4	6.5	7.4	7.1	7.2	---	---	---	8.1	7.2	7.6
21	6.4	6.4	6.4	7.4	7.1	7.2	---	---	---	7.8	7.1	7.4
22	6.5	6.4	6.4	7.4	7.2	7.3	7.5	7.3	7.4	7.5	7.0	7.2
23	6.8	6.3	6.5	7.3	7.2	7.2	7.6	7.5	7.6	7.5	7.2	7.4
24	6.5	6.3	6.4	7.4	7.2	7.3	7.6	7.3	7.4	7.4	7.1	7.2
25	6.6	6.3	6.5	7.5	7.2	7.3	7.5	7.3	7.4	---	---	---
26	6.7	6.5	6.6	7.5	7.2	7.4	7.4	7.3	7.4	---	---	---
27	7.1	6.5	6.7	7.5	7.2	7.3	7.6	7.4	7.5	8.0	7.2	7.5
28	7.4	6.5	6.8	7.5	7.2	7.3	7.7	7.3	7.5	7.6	7.3	7.5
29	7.7	7.0	7.3	7.4	7.1	7.3	7.6	7.5	7.5	7.5	7.1	7.3
30	7.8	6.9	7.3	7.4	7.1	7.3	7.6	7.4	7.5	7.9	7.0	7.3
31	7.7	7.1	7.4	---	---	---	7.6	7.4	7.4	8.1	7.0	7.5
MONTH	7.8	6.0	6.6	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.4	6.9	7.0	7.1	6.7	7.0	6.3	6.1	6.1	6.9	6.8	6.9
2	7.0	6.9	6.9	7.1	7.0	7.0	6.4	6.2	6.3	7.2	6.9	6.9
3	7.3	6.9	7.2	7.2	7.0	7.1	6.4	6.2	6.2	7.0	6.8	6.9
4	7.2	7.0	7.1	7.2	7.0	7.1	6.4	6.2	6.3	7.2	6.7	6.9
5	7.2	7.0	7.0	7.2	7.0	7.1	6.3	6.2	6.3	7.1	6.8	6.9
6	7.0	6.8	6.9	7.4	7.2	7.3	6.4	6.2	6.3	7.9	6.7	7.2
7	7.1	6.8	6.9	7.5	7.4	7.4	6.4	6.2	6.3	8.4	6.9	7.6
8	7.2	6.8	6.9	7.4	7.3	7.4	6.3	6.1	6.2	7.7	6.8	7.0
9	7.1	6.8	7.0	7.4	7.2	7.3	6.2	6.1	6.1	7.2	6.6	6.9
10	7.9	7.0	7.4	7.4	7.3	7.4	6.4	6.1	6.2	6.8	6.6	6.7
11	7.4	7.0	7.2	7.4	7.3	7.3	6.4	6.2	6.3	7.5	6.6	6.9
12	7.2	7.1	7.1	7.3	7.0	7.3	6.4	6.2	6.3	7.3	6.8	7.1
13	7.3	7.1	7.2	7.1	6.7	6.7	6.6	6.4	6.5	7.8	6.8	7.2
14	7.3	7.1	7.2	7.1	6.7	6.9	6.6	6.4	6.5	7.4	6.7	6.9
15	7.3	7.1	7.2	7.1	6.4	6.7	6.6	6.4	6.5	7.4	6.6	6.8
16	7.3	7.1	7.2	7.0	6.6	6.8	7.2	6.6	6.9	6.7	6.4	6.5
17	7.5	7.1	7.4	7.2	6.5	6.9	7.2	6.9	7.1	6.6	6.4	6.5
18	7.5	7.3	7.4	7.2	6.9	7.1	7.3	6.9	7.1	6.7	6.4	6.5
19	7.4	7.1	7.3	7.2	7.1	7.2	7.2	6.8	7.0	6.6	6.4	6.5
20	7.3	7.2	7.2	---	---	---	6.9	6.7	6.8	6.8	6.3	6.4
21	7.2	7.1	7.1	---	---	---	6.8	6.8	6.8	7.2	6.4	6.7
22	7.4	7.2	7.2	---	---	---	6.8	6.7	6.8	7.4	6.8	7.1
23	7.4	7.3	7.4	---	---	---	6.8	6.7	6.7	7.3	6.9	7.1
24	7.4	7.2	7.3	---	---	---	6.9	6.7	6.8	7.1	6.6	6.8
25	7.2	6.9	7.1	---	---	---	7.2	6.8	7.0	7.3	6.6	7.0
26	7.2	6.9	7.1	---	---	---	7.2	6.9	7.0	7.2	6.8	7.1
27	7.2	6.7	7.0	---	---	---	7.1	6.7	6.8	7.2	6.7	6.9
28	7.2	6.7	7.0	6.2	6.0	6.1	7.2	6.7	6.8	7.2	6.9	7.0
29	---	---	---	6.3	6.1	6.2	7.2	6.8	7.0	7.1	6.5	6.8
30	---	---	---	6.3	6.1	6.2	7.0	6.8	6.9	6.6	6.5	6.5
31	---	---	---	6.2	6.0	6.1	---	---	---	6.6	6.4	6.6
MONTH	7.9	6.7	7.1	---	---	---	7.3	6.1	6.6	8.4	6.3	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	6.5	6.8	6.8	6.3	6.5	6.8	6.7	6.8	7.1	7.1	7.1
2	7.2	6.8	7.0	6.9	6.5	6.6	6.8	6.7	6.8	7.3	7.1	7.2
3	7.2	6.8	6.9	---	---	---	6.8	6.7	6.7	7.3	7.2	7.2
4	7.4	6.7	6.9	---	---	---	6.9	6.6	6.7	7.3	7.2	7.3
5	7.5	6.7	7.1	---	---	---	6.9	6.6	6.8	7.3	7.2	7.2
6	7.2	6.6	6.8	7.1	6.6	6.7	6.9	6.3	6.7	7.2	7.1	7.2
7	6.9	6.6	6.7	6.9	6.6	6.7	6.8	6.3	6.5	7.2	6.9	7.1
8	6.7	6.6	6.6	6.8	6.6	6.7	6.8	6.2	6.5	7.3	6.9	7.1
9	6.8	6.7	6.8	6.8	6.6	6.7	6.8	6.2	6.5	---	---	---
10	6.9	6.7	6.8	6.8	6.7	6.7	7.2	6.5	6.8	7.1	6.9	7.0
11	6.8	6.7	6.7	6.8	6.6	6.7	7.7	6.7	6.9	7.3	6.9	7.1
12	7.0	6.6	6.8	6.8	6.5	6.7	7.6	6.7	7.1	---	---	---
13	7.3	6.7	6.9	6.8	6.6	6.7	7.2	6.9	7.1	7.4	6.9	7.2
14	7.3	6.8	7.1	6.9	6.7	6.8	7.3	6.8	7.1	7.5	6.9	7.1
15	7.1	6.6	6.8	6.8	6.7	6.7	7.4	7.1	7.3	7.7	7.0	7.4
16	6.7	6.5	6.6	6.8	6.7	6.7	7.2	7.2	7.2	8.0	7.2	7.5
17	6.7	6.5	6.6	6.8	6.6	6.7	7.2	6.9	7.2	7.4	7.1	7.2
18	6.7	6.5	6.6	7.6	6.6	6.7	7.2	6.7	6.9	7.1	6.9	7.0
19	6.8	6.5	6.6	---	---	---	7.0	6.7	6.8	6.9	6.8	6.9
20	6.6	6.5	6.6	---	---	---	6.8	6.7	6.7	7.0	6.8	6.9
21	6.7	6.4	6.6	---	---	---	7.6	6.7	7.1	7.0	6.8	6.9
22	6.8	6.6	6.7	---	---	---	7.6	7.4	7.5	7.1	6.9	7.0
23	6.8	6.7	6.8	---	---	---	7.4	6.8	7.2	7.2	6.9	7.1
24	6.8	6.7	6.8	---	---	---	7.2	6.5	6.9	7.4	6.8	7.2
25	6.8	6.7	6.8	---	---	---	7.2	7.1	7.1	7.1	6.8	7.0
26	6.8	6.2	6.6	---	---	---	7.1	7.0	7.1	7.4	7.0	7.2
27	6.4	6.3	6.3	7.7	6.8	7.1	7.3	6.9	7.2	---	---	---
28	6.4	6.2	6.3	7.5	6.7	7.0	7.2	6.8	7.1	7.6	7.1	7.3
29	6.6	6.2	6.4	7.0	6.7	6.7	7.2	6.8	7.1	7.4	6.9	7.3
30	6.6	6.4	6.5	7.1	6.7	6.8	---	---	---	7.4	6.9	7.2
31	---	---	---	6.8	6.7	6.8	7.1	7.0	7.1	---	---	---
MONTH	7.5	6.2	6.7	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	20.4	19.9	20.1	16.2	14.9	15.7	9.9	8.7	9.2	---	---	---
2	21.4	19.6	20.4	16.1	14.9	15.6	9.9	8.3	8.8	---	---	---
3	21.2	19.9	20.4	---	---	---	8.6	6.6	7.8	---	---	---
4	21.0	20.0	20.3	16.5	15.9	16.2	6.6	6.1	6.3	---	---	---
5	22.1	20.5	21.0	16.8	16.0	16.4	6.8	5.5	6.3	---	---	---
6	22.7	21.2	21.9	16.5	14.6	15.8	---	---	---	---	---	---
7	22.5	21.5	21.9	16.3	15.8	16.2	---	---	---	---	---	---
8	21.6	18.5	20.0	16.2	15.6	15.9	---	---	---	---	---	---
9	18.8	16.9	17.7	17.4	15.9	16.4	---	---	---	---	---	---
10	17.0	15.8	16.6	18.4	17.2	17.8	---	---	---	---	---	---
11	18.3	15.4	16.6	17.3	15.7	16.5	---	---	---	---	---	---
12	17.8	15.6	16.8	15.8	15.1	15.4	---	---	---	5.8	4.7	5.3
13	18.8	15.7	17.3	16.0	14.1	15.3	---	---	---	6.9	5.2	6.0
14	18.0	16.5	17.6	15.6	14.6	15.2	---	---	---	7.8	5.7	6.3
15	18.1	17.1	17.7	14.6	13.4	13.9	---	---	---	8.7	6.3	7.3
16	18.4	17.1	18.0	14.9	12.4	13.8	---	---	---	9.0	6.8	8.1
17	18.6	17.7	18.2	14.8	13.2	13.9	---	---	---	8.3	6.8	7.6
18	19.5	18.2	18.8	14.7	12.3	13.2	---	---	---	8.3	7.4	7.8
19	19.7	18.1	18.9	13.8	11.0	12.1	---	---	---	10.5	7.3	8.9
20	19.7	18.8	19.2	12.7	11.0	11.9	---	---	---	11.5	10.5	11.2
21	19.6	19.0	19.3	11.5	10.1	10.8	---	---	---	10.9	8.0	9.5
22	20.3	18.9	19.6	10.4	8.2	9.0	---	---	---	9.0	6.9	7.9
23	19.7	18.2	19.1	9.8	7.4	8.3	---	---	---	8.8	7.6	8.1
24	19.9	18.1	18.7	10.2	7.4	8.5	---	---	---	8.9	7.1	7.9
25	19.7	17.6	18.5	10.2	8.2	9.3	---	---	---	---	---	---
26	18.9	17.8	18.4	11.0	10.0	10.5	---	---	---	---	---	---
27	19.0	18.1	18.6	10.9	9.4	10.4	---	---	---	7.4	5.8	6.6
28	19.5	18.6	19.1	10.8	9.3	10.2	---	---	---	8.2	6.0	7.1
29	19.0	17.9	18.4	10.6	9.9	10.4	---	---	---	8.0	5.8	7.3
30	17.9	16.5	17.4	10.4	9.1	9.9	---	---	---	9.7	7.5	8.6
31	17.2	15.9	16.5	---	---	---	---	---	---	10.4	9.3	9.8
MONTH	22.7	15.4	18.8	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.8	9.6	10.0	12.4	10.9	11.6	14.8	13.4	14.3	20.5	18.7	19.5
2	9.9	8.8	9.2	13.4	11.5	12.3	14.2	12.8	13.5	21.5	19.3	20.3
3	9.1	7.7	8.3	12.9	11.9	12.3	14.1	13.3	13.7	22.6	20.0	21.2
4	7.8	7.0	7.4	12.6	11.6	12.0	13.8	13.2	13.5	24.1	20.9	22.1
5	9.3	7.8	8.6	12.5	11.4	12.1	15.1	12.8	13.8	23.9	21.9	22.8
6	9.7	7.4	8.8	11.5	8.4	9.9	16.0	13.5	14.6	23.1	21.2	22.3
7	10.5	8.4	9.4	9.2	7.8	8.6	20.0	14.8	16.6	21.3	20.2	20.8
8	11.1	8.7	9.7	11.3	8.5	9.7	19.7	16.8	18.0	22.2	20.3	21.1
9	11.6	9.3	10.6	10.2	9.4	9.9	20.5	18.1	19.1	23.2	20.6	21.8
10	12.6	11.4	11.9	11.0	8.6	9.7	22.6	19.3	20.5	24.5	21.5	22.7
11	12.0	10.2	11.1	11.3	9.2	10.3	21.8	20.3	21.1	23.7	22.0	22.8
12	10.2	9.2	9.6	11.5	10.5	11.1	22.5	20.6	21.5	23.8	22.2	22.9
13	10.2	9.5	9.9	14.0	11.3	12.9	22.4	21.1	21.7	23.9	22.5	23.1
14	11.4	9.9	10.5	14.6	13.3	13.9	23.2	21.2	22.0	23.7	21.9	22.7
15	13.6	11.3	12.3	14.1	13.6	13.8	21.8	20.7	21.1	22.7	21.7	22.0
16	15.1	12.4	13.6	14.8	13.6	14.2	20.8	19.4	20.2	22.6	21.1	21.8
17	14.4	12.4	13.4	16.8	14.0	15.1	19.6	17.3	18.7	21.5	20.4	20.7
18	12.4	10.7	11.2	15.0	13.6	14.1	17.3	15.6	16.2	22.5	20.1	20.8
19	11.6	9.8	10.6	13.6	12.7	13.2	17.1	14.7	15.7	24.8	21.7	23.3
20	12.8	10.5	11.8	12.9	12.0	12.3	16.3	15.1	15.8	27.1	23.8	24.8
21	13.9	12.4	13.0	13.4	12.2	12.7	17.5	15.5	16.5	25.4	24.3	24.7
22	12.6	10.1	11.1	13.3	12.4	12.8	18.7	16.8	17.6	25.7	24.0	24.9
23	11.4	9.0	10.2	13.8	12.4	13.1	19.9	17.9	18.9	25.5	24.6	25.0
24	11.1	9.1	10.2	14.4	12.7	13.6	21.1	18.9	20.0	25.5	24.1	24.7
25	11.8	10.2	10.9	13.8	12.6	13.2	20.7	18.0	19.6	26.2	24.5	25.5
26	13.3	11.4	12.3	12.6	11.9	12.4	18.0	16.9	17.5	25.9	25.1	25.4
27	13.3	12.1	12.6	12.3	10.8	11.7	19.2	17.0	17.9	26.0	24.7	25.3
28	12.9	11.2	12.1	12.4	10.7	11.6	20.0	17.4	18.7	25.0	24.3	24.7
29	---	---	---	12.7	11.0	11.8	19.7	18.3	19.0	25.1	24.0	24.3
30	---	---	---	15.1	12.3	13.6	21.3	18.0	19.1	26.0	23.6	24.8
31	---	---	---	15.6	13.9	14.8	---	---	---	25.1	23.3	24.3
MONTH	15.1	7.0	10.7	16.8	7.8	12.3	23.2	12.8	17.9	27.1	18.7	23.0

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	23.8	24.5	29.9	27.7	28.8	27.0	25.0	26.3	27.3	26.5	27.0
2	25.7	24.0	24.6	29.0	27.5	28.3	26.9	25.0	26.0	27.5	26.9	27.2
3	25.9	24.1	25.0	---	---	---	26.8	25.0	25.9	---	---	---
4	26.5	24.8	25.6	---	---	---	26.4	25.1	25.8	27.6	26.2	27.3
5	28.8	25.0	26.5	---	---	---	27.6	25.8	26.4	27.3	25.5	26.7
6	27.2	25.3	26.4	28.9	27.6	28.1	28.5	26.7	27.5	27.3	26.2	26.9
7	27.9	26.5	27.1	29.1	26.6	27.6	28.0	27.2	27.5	27.5	25.7	26.5
8	27.1	26.3	26.8	27.8	26.8	27.2	30.0	27.3	28.3	27.7	26.2	26.9
9	27.7	25.5	26.3	30.9	26.6	28.0	30.4	29.5	29.7	---	---	---
10	28.0	25.5	26.4	29.9	27.6	28.6	31.4	29.2	30.1	27.8	26.2	26.9
11	28.2	26.4	27.1	31.0	28.3	29.4	30.8	30.0	30.3	28.2	27.0	27.4
12	28.9	27.0	27.8	30.1	27.9	29.0	30.4	29.1	29.8	---	---	---
13	28.7	27.4	28.0	29.0	26.6	27.8	30.2	29.3	29.6	27.1	25.0	26.4
14	28.0	26.7	27.2	28.4	25.5	27.0	29.4	28.4	28.9	26.9	25.5	26.4
15	26.7	26.0	26.4	30.1	26.4	27.7	28.9	27.3	28.1	26.2	23.2	24.4
16	27.9	25.6	26.5	28.4	26.1	27.1	29.0	27.5	28.2	24.1	22.8	23.1
17	26.5	25.3	25.7	27.9	26.5	27.2	29.1	27.7	28.5	23.1	22.3	22.7
18	27.7	24.7	26.0	29.1	26.7	27.5	28.9	27.8	28.3	23.4	22.6	22.9
19	28.6	24.9	26.3	---	---	---	28.6	27.0	27.7	23.6	23.0	23.3
20	27.0	25.4	26.0	---	---	---	28.3	27.1	27.5	24.3	23.3	23.5
21	28.2	25.8	26.7	---	---	---	29.1	26.6	27.3	24.2	23.3	23.8
22	27.3	25.9	26.6	---	---	---	28.6	26.5	27.2	24.9	23.9	24.3
23	27.0	26.0	26.5	---	---	---	27.2	26.0	26.6	25.2	24.0	24.5
24	26.9	25.9	26.3	---	---	---	27.2	25.7	26.3	26.6	25.1	25.8
25	27.7	25.6	26.6	---	---	---	27.2	25.0	26.0	26.3	24.5	25.5
26	27.7	25.8	26.8	---	---	---	27.3	24.5	26.0	24.5	22.4	23.2
27	32.7	26.3	27.8	27.9	26.5	27.4	27.1	25.2	26.2	---	---	---
28	30.8	26.8	28.5	27.3	26.1	26.6	27.9	25.8	26.9	24.2	22.5	23.2
29	31.1	27.0	28.3	27.3	25.9	26.7	27.7	26.5	26.8	23.0	21.6	22.1
30	29.3	27.1	28.2	27.1	26.0	26.4	---	---	---	21.6	20.5	20.9
31	---	---	---	27.9	25.4	26.4	---	---	---	---	---	---
MONTH	32.7	23.8	26.6	---	---	---	---	---	---	---	---	---

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	23.0	22.2	22.7	16.9	16.0	16.3	10.7	10.4	10.6	5.0	3.1	4.6
2	22.4	19.9	21.2	16.4	16.0	16.2	10.8	9.6	10.4	5.0	4.1	4.5
3	21.5	20.3	20.7	---	---	---	10.1	6.7	8.6	4.6	4.0	4.4
4	20.8	20.0	20.4	16.5	16.2	16.4	7.3	6.1	6.7	4.7	4.1	4.4
5	21.8	20.6	20.8	16.4	16.0	16.1	7.7	6.9	7.3	4.8	4.0	4.5
6	22.5	21.2	21.6	16.3	16.1	16.2	---	---	---	4.8	4.3	4.5
7	22.4	21.6	22.0	16.5	16.2	16.3	---	---	---	4.8	4.3	4.5
8	22.0	19.4	21.0	16.6	16.3	16.5	---	---	---	5.0	4.5	4.8
9	21.3	17.0	18.1	17.0	16.4	16.6	---	---	---	4.8	4.6	4.7
10	17.8	16.5	17.2	17.9	17.0	17.6	---	---	---	4.8	3.9	4.5
11	18.7	15.8	17.7	17.4	16.3	16.7	---	---	---	4.7	4.3	4.5
12	18.7	18.1	18.4	16.4	15.7	16.1	---	---	---	5.0	4.6	4.8
13	18.4	18.0	18.2	16.3	15.9	16.2	---	---	---	4.9	4.7	4.7
14	18.4	17.9	18.1	16.3	15.9	16.2	---	---	---	5.6	4.7	5.1
15	18.4	18.1	18.3	16.2	15.6	16.0	---	---	---	5.9	5.3	5.5
16	18.3	18.1	18.2	16.1	15.6	15.9	---	---	---	5.8	5.2	5.5
17	18.3	18.1	18.2	16.0	15.2	15.7	---	---	---	5.8	5.4	5.6
18	18.6	18.2	18.4	15.8	13.6	14.9	---	---	---	6.0	5.6	5.8
19	18.8	18.6	18.7	14.8	13.9	14.3	---	---	---	9.8	5.9	6.9
20	18.9	18.8	18.8	14.4	12.0	13.0	---	---	---	11.3	9.7	10.7
21	19.0	18.9	18.9	12.9	10.7	12.1	---	---	---	10.9	8.9	9.8
22	19.2	19.0	19.1	11.1	9.6	10.4	9.5	7.6	8.9	9.1	8.7	8.9
23	19.5	18.9	19.2	11.3	10.0	10.8	7.8	5.6	6.5	8.8	8.5	8.7
24	19.3	19.1	19.2	11.1	10.2	10.7	7.6	6.7	7.2	8.7	8.1	8.4
25	19.2	18.7	19.0	10.9	9.8	10.5	7.6	4.4	5.6	---	---	---
26	19.1	18.8	19.0	10.9	10.1	10.5	5.2	3.5	4.4	---	---	---
27	19.0	18.5	18.8	10.8	10.1	10.5	5.7	4.8	5.3	7.2	6.3	6.8
28	19.2	18.9	19.0	10.7	10.1	10.4	6.1	4.5	5.2	6.9	6.6	6.8
29	19.1	18.0	18.4	10.8	10.3	10.5	5.2	4.7	5.0	7.1	6.7	6.8
30	18.4	17.0	17.5	10.9	10.4	10.6	5.2	4.7	5.1	9.6	6.9	8.2
31	17.6	16.3	16.8	---	---	---	5.1	3.1	4.3	10.4	8.7	9.5
MONTH	23.0	15.8	19.1	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.6	8.3	8.9	12.2	11.0	11.7	14.9	13.5	14.3	20.1	18.6	19.1
2	8.6	8.2	8.4	12.2	11.9	12.1	14.1	12.8	13.5	20.9	19.1	19.7
3	8.8	8.5	8.7	12.3	12.2	12.2	14.1	13.3	13.7	21.7	19.7	20.3
4	8.8	8.7	8.8	12.3	12.2	12.3	13.8	13.2	13.5	22.6	20.7	21.2
5	8.9	8.6	8.8	12.3	11.5	12.1	14.9	12.8	13.7	22.6	21.6	21.9
6	9.0	8.8	8.9	11.6	9.1	10.0	16.0	13.4	14.5	22.6	20.2	21.7
7	9.2	8.9	9.0	9.1	8.1	8.6	16.8	14.9	15.6	21.1	20.1	20.7
8	9.6	9.0	9.2	9.0	8.6	8.8	19.4	16.6	17.5	20.7	20.0	20.3
9	11.1	9.3	9.9	9.8	8.9	9.4	20.1	18.1	18.7	21.1	20.0	20.6
10	12.2	10.9	11.8	9.4	9.1	9.2	21.7	19.3	20.1	21.8	20.0	20.6
11	11.9	10.5	11.1	9.4	9.2	9.3	21.7	20.2	21.0	23.5	20.9	21.8
12	11.0	10.5	10.8	10.4	9.3	9.5	22.3	20.7	21.4	23.7	22.1	22.7
13	10.9	10.1	10.6	14.0	9.9	12.8	22.2	21.1	21.6	23.7	22.4	23.0
14	10.7	10.3	10.5	14.4	13.4	13.9	22.5	21.1	21.7	23.0	22.2	22.7
15	10.8	10.1	10.6	14.3	13.5	13.8	21.6	20.7	21.1	22.6	22.0	22.3
16	13.5	10.1	10.8	14.7	13.6	14.0	20.7	18.7	19.8	22.1	21.6	21.8
17	13.7	11.8	12.9	14.9	13.4	14.2	19.5	17.4	18.8	21.9	21.5	21.7
18	12.6	11.1	11.9	14.5	13.6	14.1	17.5	15.7	16.3	21.6	21.2	21.5
19	12.0	11.7	11.9	13.9	13.2	13.6	16.1	14.6	15.3	21.8	21.4	21.6
20	12.0	11.8	11.9	---	---	---	16.3	15.1	15.7	24.9	21.4	22.0
21	12.0	11.3	11.8	---	---	---	17.5	15.5	16.4	24.8	22.2	23.9
22	11.6	10.3	11.2	---	---	---	18.4	16.7	17.3	25.6	24.2	24.8
23	10.6	9.5	10.0	---	---	---	19.8	17.8	18.6	25.3	24.7	24.9
24	10.5	10.1	10.3	---	---	---	21.0	18.9	19.8	24.8	24.3	24.5
25	11.7	10.3	10.8	---	---	---	20.7	18.0	19.6	26.0	24.5	25.1
26	13.1	11.4	12.3	---	---	---	18.1	16.9	17.5	25.9	25.1	25.5
27	12.9	12.1	12.5	---	---	---	18.4	17.0	17.6	25.8	25.0	25.4
28	12.9	11.3	12.1	12.4	10.7	11.5	19.6	17.3	17.9	25.2	24.6	24.8
29	---	---	---	12.7	11.1	11.8	19.5	18.4	18.9	24.8	24.4	24.6
30	---	---	---	14.7	12.3	13.5	19.2	17.9	18.4	24.6	24.0	24.4
31	---	---	---	15.6	13.8	14.7	---	---	---	24.3	23.8	24.0
MONTH	13.7	8.2	10.6	---	---	---	22.5	12.8	17.7	26.0	18.6	22.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.1	24.0	24.4	29.2	27.2	28.0	26.3	25.9	26.2	27.1	27.0	27.0
2	25.0	24.2	24.6	29.0	26.8	27.9	26.6	26.0	26.2	27.0	27.0	27.0
3	24.7	24.0	24.4	---	---	---	26.5	26.1	26.3	27.0	26.9	27.0
4	25.9	24.0	24.5	---	---	---	26.2	25.8	26.0	27.1	26.9	27.0
5	26.0	25.0	25.4	---	---	---	26.9	25.9	26.2	27.0	26.8	26.9
6	26.7	24.7	25.6	28.1	27.0	27.5	28.1	26.5	27.1	27.0	26.9	26.9
7	26.1	24.9	25.5	27.6	27.0	27.3	28.0	27.0	27.4	27.1	26.8	26.9
8	25.0	24.8	24.9	27.6	27.1	27.4	28.3	26.8	27.4	27.0	26.8	26.9
9	25.0	24.6	24.8	27.3	26.7	26.9	30.2	27.5	28.7	---	---	---
10	25.2	24.6	24.8	27.8	26.7	27.0	31.2	28.9	29.8	27.1	26.6	26.9
11	26.6	24.8	25.4	28.2	26.9	27.5	30.6	29.7	30.2	27.5	26.8	26.9
12	27.5	25.3	26.6	27.6	26.8	27.0	30.4	29.1	29.7	---	---	---
13	28.9	25.1	26.6	27.5	26.9	27.1	30.1	29.3	29.6	27.1	26.9	26.9
14	28.0	26.8	27.3	27.4	27.0	27.0	29.3	28.0	28.5	27.1	26.2	26.9
15	26.8	26.0	26.3	27.1	26.9	27.0	28.0	27.0	27.5	26.4	23.7	25.0
16	26.3	25.6	26.1	27.1	26.9	26.9	27.6	27.0	27.1	24.3	22.8	23.2
17	26.3	26.0	26.1	27.2	26.8	27.0	28.0	27.3	27.5	23.2	22.4	22.7
18	26.0	25.6	25.7	27.9	26.8	27.0	28.5	27.4	28.0	23.0	22.6	22.8
19	25.9	25.6	25.7	---	---	---	28.3	27.1	27.6	23.4	22.9	23.0
20	26.3	25.4	25.7	---	---	---	27.7	27.1	27.3	23.4	23.1	23.2
21	27.2	25.7	26.2	---	---	---	27.5	26.9	27.3	23.7	23.3	23.4
22	27.3	25.8	26.4	---	---	---	27.4	27.2	27.3	23.8	23.3	23.4
23	26.9	26.0	26.4	---	---	---	27.5	26.8	27.3	23.9	23.4	23.7
24	26.8	25.9	26.2	---	---	---	27.2	26.3	26.9	25.9	23.8	24.5
25	27.3	25.6	26.3	---	---	---	27.3	27.1	27.2	25.8	24.5	25.2
26	27.0	25.7	26.1	---	---	---	27.2	27.1	27.2	25.1	24.7	24.8
27	27.1	26.2	26.5	28.2	26.9	27.7	27.2	26.7	27.1	---	---	---
28	27.0	26.5	26.8	27.3	26.3	26.8	27.0	26.6	26.9	24.4	23.4	23.8
29	26.9	25.9	26.3	27.2	26.8	26.9	27.3	26.8	27.0	23.4	22.9	23.2
30	27.8	25.9	26.3	27.1	26.4	26.7	---	---	---	23.0	20.9	21.7
31	---	---	---	26.6	26.2	26.4	27.2	26.9	27.1	---	---	---
MONTH	28.9	24.0	25.8	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.9	4.8	5.3	11.8	9.5	10.9	9.7	8.2	9.1	---	---	---
2	5.9	5.0	5.3	11.4	9.0	10.6	9.7	8.6	9.2	---	---	---
3	5.5	4.4	4.8	---	---	---	10.1	8.9	9.5	---	---	---
4	5.4	4.8	5.0	10.6	5.9	7.8	10.2	9.9	10.1	---	---	---
5	5.5	5.0	5.2	11.1	6.1	9.4	10.1	9.5	9.8	---	---	---
6	5.5	5.1	5.2	9.6	7.0	8.6	---	---	---	---	---	---
7	6.0	5.1	5.5	9.4	6.3	7.6	---	---	---	---	---	---
8	6.5	5.4	6.0	10.3	5.1	8.4	---	---	---	---	---	---
9	7.2	5.4	6.5	9.5	4.3	6.4	---	---	---	---	---	---
10	7.3	6.8	7.1	8.1	5.0	7.2	---	---	---	---	---	---
11	7.3	6.4	6.9	7.8	6.3	7.2	---	---	---	---	---	---
12	6.7	5.5	6.5	7.9	6.7	7.4	---	---	---	15.2	12.3	13.0
13	7.0	4.5	6.0	7.6	5.8	6.8	---	---	---	12.8	12.2	12.4
14	6.0	4.4	5.1	7.6	6.4	7.2	---	---	---	15.0	11.9	13.0
15	6.9	4.0	5.1	8.3	7.2	7.8	---	---	---	16.9	11.6	13.1
16	6.7	3.5	4.3	7.7	5.9	7.3	---	---	---	14.5	11.8	12.4
17	6.6	2.3	3.8	8.0	5.8	7.1	---	---	---	16.3	11.7	12.5
18	6.6	1.4	4.6	7.9	4.5	7.0	---	---	---	14.9	11.2	12.3
19	6.6	1.6	5.1	8.2	5.8	7.3	---	---	---	14.4	10.8	12.5
20	6.7	1.6	3.4	8.6	5.9	7.4	---	---	---	11.7	9.7	10.5
21	6.6	.9	3.3	8.6	7.7	8.1	---	---	---	12.5	9.6	10.6
22	8.3	1.4	6.3	9.4	7.9	8.9	---	---	---	12.8	10.7	11.2
23	8.1	.7	6.3	10.2	7.9	9.3	---	---	---	11.3	9.8	10.5
24	7.9	3.4	6.2	9.6	7.3	8.9	---	---	---	15.8	9.7	11.9
25	10.4	3.4	6.4	9.6	6.4	8.7	---	---	---	---	---	---
26	8.8	5.5	7.9	9.9	8.8	9.4	---	---	---	---	---	---
27	8.7	6.3	7.8	10.0	7.7	9.4	---	---	---	13.2	11.5	12.3
28	9.3	6.3	8.2	9.6	8.2	9.2	---	---	---	14.4	10.7	11.5
29	10.5	7.7	9.0	10.2	8.3	8.8	---	---	---	16.5	10.2	12.8
30	11.2	8.2	9.7	9.4	8.7	9.1	---	---	---	13.3	10.4	11.5
31	11.1	8.8	10.0	---	---	---	---	---	---	12.2	10.5	10.9
MONTH	11.2	.7	6.1	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	12.6	10.0	10.7	9.7	9.3	9.5	9.1	8.5	8.7	7.6	6.8	7.2
2	12.3	10.0	10.5	9.9	9.2	9.5	9.4	9.0	9.1	8.3	7.1	7.6
3	11.3	9.4	10.2	9.7	8.9	9.4	9.1	8.5	8.9	9.4	7.5	8.2
4	13.7	10.6	11.9	10.0	7.2	9.2	9.2	8.5	8.8	11.5	7.6	8.9
5	12.3	9.9	11.0	9.2	8.2	8.8	9.3	8.7	9.0	11.0	7.7	9.2
6	13.1	9.8	11.2	10.9	8.8	10.1	9.2	8.7	8.9	9.9	7.5	9.0
7	14.5	10.8	12.2	11.4	10.7	11.1	9.2	8.5	8.8	10.4	7.7	9.0
8	12.9	10.4	11.5	11.3	10.3	10.7	8.7	8.0	8.4	9.6	7.9	8.7
9	11.5	9.8	10.3	11.0	10.3	10.7	8.3	7.4	7.9	9.4	5.4	7.8
10	11.1	9.7	10.2	11.1	10.6	10.8	8.0	7.3	7.5	8.5	5.5	7.4
11	10.9	9.8	10.2	10.9	10.3	10.5	7.7	6.6	7.2	8.6	6.3	7.3
12	10.7	10.0	10.4	10.6	10.2	10.4	7.0	6.5	6.7	8.0	6.0	6.8
13	10.3	9.0	9.5	10.4	10.1	10.3	7.0	6.2	6.7	8.4	6.3	7.2
14	9.4	8.3	9.0	10.4	10.0	10.2	6.7	5.6	6.1	9.0	5.2	7.6
15	9.4	8.8	9.1	10.2	9.6	9.8	6.2	5.5	5.8	8.2	5.2	7.5
16	9.5	8.5	9.1	10.0	9.5	9.7	7.2	5.5	6.6	8.4	2.4	6.8
17	9.4	8.1	8.7	9.6	9.1	9.3	7.5	5.4	7.1	7.8	6.2	7.0
18	9.8	8.6	9.3	9.9	8.9	9.5	8.3	6.9	7.7	7.1	5.0	6.4
19	9.8	8.8	9.4	10.4	9.8	10.0	8.4	7.3	7.8	8.3	6.2	7.3
20	9.6	8.8	9.2	10.7	9.7	10.4	8.2	7.5	7.8	9.3	5.8	8.1
21	9.4	8.8	9.1	10.7	9.1	9.8	8.4	8.0	8.2	7.6	5.8	6.8
22	9.8	8.1	9.3	9.9	9.0	9.5	8.4	7.8	8.0	8.2	6.3	7.0
23	9.9	9.1	9.6	9.9	9.0	9.6	8.0	7.5	7.8	8.1	6.4	7.2
24	9.9	9.4	9.6	9.3	8.7	9.0	7.8	7.5	7.7	8.2	6.0	7.3
25	9.8	9.4	9.6	9.6	8.9	9.3	8.4	7.5	8.0	8.2	6.1	7.0
26	9.8	9.3	9.6	9.4	8.6	9.0	8.7	8.1	8.5	7.6	6.4	6.9
27	10.0	9.2	9.6	9.5	8.3	9.3	8.6	7.0	7.5	7.1	6.3	6.7
28	9.7	9.2	9.5	9.8	9.3	9.6	8.4	7.0	7.3	6.8	6.1	6.5
29	---	---	---	10.2	9.5	9.8	8.2	7.2	7.4	6.8	5.8	6.4
30	---	---	---	10.2	8.8	9.5	7.8	6.8	7.3	7.0	2.8	6.1
31	---	---	---	8.8	8.4	8.7	---	---	---	6.7	1.6	5.6
MONTH	14.5	8.1	10.0	11.4	7.2	9.8	9.4	5.4	7.8	11.5	1.6	7.4

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	5.6	6.4	7.2	5.3	6.2	10.0	.9	5.4	4.9	.1	2.5
2	7.3	5.7	6.6	6.5	4.1	5.7	9.2	2.5	5.6	1.5	.2	.3
3	7.3	5.6	6.5	---	---	---	8.3	3.8	6.2	---	---	---
4	---	---	---	---	---	---	8.4	4.9	5.7	4.7	.3	1.3
5	---	---	---	---	---	---	7.0	4.6	5.5	5.1	.4	1.7
6	6.9	5.6	6.2	7.9	3.2	6.6	8.1	5.4	6.5	6.3	.1	2.4
7	6.9	5.7	6.2	9.3	5.9	7.3	6.3	5.1	5.7	7.1	1.4	4.0
8	6.3	5.3	5.8	7.9	5.9	6.7	8.0	5.0	6.2	7.8	3.8	6.4
9	5.6	2.4	4.7	7.2	4.6	6.5	7.8	5.9	6.9	---	---	---
10	5.4	2.9	4.6	7.4	4.6	6.2	8.3	6.0	7.1	7.1	2.5	5.6
11	6.3	4.8	5.5	8.2	5.8	6.5	8.1	5.8	7.1	8.3	2.8	6.3
12	7.5	5.5	6.4	7.6	2.5	6.3	8.0	5.1	6.8	---	---	---
13	8.5	5.6	7.2	7.9	5.6	6.5	7.2	6.0	6.6	6.8	.0	2.5
14	7.8	6.6	6.9	6.5	5.1	5.7	6.7	5.5	6.1	8.5	.3	4.9
15	7.4	5.0	6.3	7.7	4.3	5.9	6.0	.2	3.2	7.4	3.9	6.3
16	6.5	4.6	5.8	8.4	4.9	6.5	4.2	.1	1.0	8.9	5.5	7.0
17	6.2	4.9	5.6	9.6	6.1	7.4	6.5	4.1	5.1	7.1	4.9	6.0
18	6.2	4.9	5.4	9.1	6.0	7.0	5.8	4.4	5.2	5.9	3.4	4.4
19	5.8	4.3	5.2	---	---	---	5.7	4.4	5.2	7.1	2.1	3.9
20	5.3	4.5	5.0	---	---	---	5.7	4.8	5.2	9.2	1.7	5.9
21	5.8	4.8	5.3	---	---	---	5.3	4.7	5.1	---	---	---
22	5.7	4.8	5.3	---	---	---	5.2	3.7	4.8	---	---	---
23	5.9	5.3	5.5	---	---	---	4.9	3.1	3.9	---	---	---
24	5.6	5.0	5.2	---	---	---	4.4	2.8	3.6	---	---	---
25	5.5	4.9	5.3	---	---	---	5.1	.6	3.1	---	---	---
26	6.0	4.4	5.4	---	---	---	4.3	.7	2.2	---	---	---
27	6.5	4.4	5.5	8.3	4.0	7.2	4.7	.9	2.6	---	---	---
28	6.8	5.0	5.6	11.0	6.0	8.1	6.5	3.1	4.4	---	---	---
29	6.8	4.7	5.4	10.1	1.1	6.1	5.8	3.4	4.6	---	---	---
30	6.3	5.1	5.6	8.4	5.6	7.0	---	---	---	---	---	---
31	---	---	---	12.1	1.5	7.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	1.5	.7	1.0	9.3	8.1	8.7	7.6	6.6	7.2	12.0	8.7	9.7
2	4.8	.8	2.5	9.1	7.4	8.3	9.1	6.6	7.5	11.1	8.6	9.8
3	5.1	1.6	4.0	---	---	---	9.9	8.0	9.0	10.8	9.3	10.0
4	5.4	4.6	5.1	7.2	5.4	6.3	10.4	9.2	9.8	11.2	9.6	10.3
5	5.6	5.0	5.3	8.1	5.7	7.3	9.6	8.9	9.2	12.2	9.1	10.4
6	5.6	5.2	5.4	7.2	5.2	6.3	---	---	---	11.1	9.3	10.1
7	6.1	1.5	3.5	5.8	3.6	4.8	---	---	---	10.0	8.1	9.0
8	6.2	1.2	3.3	4.2	2.3	3.2	---	---	---	8.7	7.2	7.7
9	7.4	1.7	6.2	3.9	1.7	2.5	---	---	---	8.2	7.2	7.7
10	7.6	6.4	7.0	7.5	3.8	6.0	---	---	---	9.7	7.5	8.5
11	7.3	3.2	5.1	8.0	5.7	7.0	---	---	---	12.5	8.3	9.8
12	4.4	3.4	3.9	7.7	5.5	6.6	---	---	---	10.8	8.4	9.5
13	4.4	3.9	4.1	6.1	4.7	5.3	---	---	---	9.8	9.3	9.5
14	4.3	3.7	4.0	5.8	4.1	4.8	---	---	---	9.8	8.8	9.1
15	3.9	3.2	3.6	5.2	2.9	3.7	---	---	---	11.9	8.4	9.6
16	3.4	2.9	3.2	3.1	1.6	2.5	---	---	---	10.9	7.4	8.9
17	3.1	1.8	2.7	3.7	1.1	2.2	---	---	---	9.0	7.8	8.3
18	2.1	.2	.9	5.5	1.9	3.9	---	---	---	9.6	7.3	8.6
19	.5	.1	.2	5.2	3.7	4.5	---	---	---	11.3	7.8	9.5
20	.4	.1	.3	7.3	4.1	5.3	---	---	---	11.3	8.1	9.7
21	.3	.2	.3	7.6	4.7	6.0	---	---	---	10.4	6.9	8.9
22	.3	.3	.3	8.1	5.8	7.4	10.6	8.1	9.2	9.4	6.0	7.8
23	6.7	.2	1.4	7.3	5.8	6.4	11.6	10.1	10.9	9.0	7.7	8.6
24	.2	.2	.2	7.5	5.8	6.6	10.8	9.1	10.1	9.3	6.6	7.7
25	.7	.1	.2	9.2	5.9	7.0	11.8	8.6	11.0	---	---	---
26	3.1	.1	.4	8.9	6.1	7.9	12.0	10.6	11.4	---	---	---
27	7.4	.2	3.4	8.1	6.4	7.3	11.2	9.7	10.6	12.3	7.9	9.8
28	8.8	.3	4.4	8.2	6.7	7.5	11.2	8.7	10.2	9.4	8.1	8.8
29	9.5	6.6	8.0	7.9	7.1	7.5	10.9	9.9	10.4	8.2	5.7	7.5
30	10.4	6.2	8.5	8.5	6.6	7.5	10.9	9.7	10.1	11.3	5.3	8.4
31	10.4	7.4	9.1	---	---	---	11.9	9.6	10.5	11.9	6.2	10.1
MONTH	10.4	.1	3.5	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	3.5	5.9	8.9	6.2	7.9	7.5	7.0	7.2	7.0	6.5	6.8
2	5.5	3.2	3.9	6.8	4.9	5.8	7.6	7.4	7.5	7.3	6.8	7.0
3	7.6	4.2	6.6	6.2	4.8	5.6	7.5	7.0	7.3	7.6	6.7	7.0
4	6.1	4.8	5.5	6.2	4.9	5.7	7.7	7.0	7.2	9.0	6.7	7.3
5	7.0	4.4	5.1	8.2	4.7	6.5	7.7	7.1	7.4	8.7	6.6	7.6
6	6.0	2.6	4.1	10.0	7.7	9.0	7.8	7.2	7.5	9.0	2.2	6.5
7	6.7	2.1	3.3	10.0	8.5	9.4	7.8	7.1	7.4	10.4	5.2	8.4
8	8.3	2.0	3.6	9.2	8.1	8.5	7.4	6.8	7.0	8.7	2.9	5.3
9	8.9	2.1	5.4	9.1	7.3	8.3	6.9	6.3	6.7	7.6	1.2	4.6
10	11.2	8.2	9.6	8.6	7.2	7.9	6.8	6.1	6.4	4.6	.4	2.6
11	8.9	4.3	6.2	7.9	6.9	7.4	6.7	5.5	6.0	8.6	1.2	4.1
12	5.6	4.1	4.6	7.2	5.8	6.4	5.6	5.3	5.5	7.9	5.9	6.7
13	7.7	3.9	5.1	9.1	5.9	8.8	5.7	5.1	5.4	8.9	5.3	7.0
14	6.3	3.4	4.8	8.9	7.9	8.4	5.3	4.3	4.8	8.0	3.5	5.5
15	7.1	2.4	4.2	8.8	7.6	8.2	5.0	4.3	4.6	8.1	2.0	4.6
16	6.9	3.6	5.1	8.4	7.8	8.1	5.7	2.6	4.3	3.3	1.3	1.8
17	9.1	3.8	7.7	8.1	5.6	7.3	6.0	2.4	5.4	2.9	1.0	1.6
18	9.1	5.8	7.6	8.4	6.0	7.4	6.5	5.4	6.0	5.3	.8	1.8
19	8.0	4.1	6.4	7.0	5.6	6.3	6.6	5.7	6.0	3.4	1.0	2.3
20	7.4	5.0	6.1	---	---	---	6.6	5.8	6.0	5.6	.7	1.8
21	6.6	3.8	5.1	---	---	---	6.7	6.4	6.5	7.7	1.4	4.9
22	9.2	5.3	6.9	---	---	---	6.7	6.1	6.4	8.6	6.3	7.4
23	8.9	7.0	8.4	---	---	---	6.4	5.8	6.1	8.1	6.5	7.2
24	8.4	6.1	7.1	---	---	---	6.3	6.0	6.1	7.4	3.9	5.5
25	9.3	5.3	7.8	---	---	---	6.8	6.0	6.5	8.4	3.5	6.4
26	9.3	8.2	8.9	---	---	---	7.0	6.4	6.7	7.9	6.4	7.2
27	9.3	7.6	8.7	---	---	---	7.1	5.4	6.4	7.3	5.5	6.4
28	9.0	7.1	8.6	8.2	7.6	7.9	7.9	4.7	6.4	7.3	5.5	6.5
29	---	---	---	8.7	7.9	8.2	7.8	5.4	6.9	6.5	2.7	4.5
30	---	---	---	8.6	7.4	8.0	7.3	6.5	7.0	3.1	1.1	2.2
31	---	---	---	7.4	7.2	7.3	---	---	---	2.0	.6	1.1
MONTH	11.2	2.0	6.2	---	---	---	7.9	2.4	6.4	10.4	.4	5.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.1	.4	3.1	6.8	1.8	4.5	.2	.1	.1	.2	.2	.2
2	6.1	2.6	4.8	6.8	.6	3.9	1.6	.1	.1	.2	.1	.1
3	6.1	2.0	3.8	---	---	---	2.7	.1	.5	.3	.2	.2
4	7.0	1.6	3.0	---	---	---	4.4	.1	1.4	.2	.2	.2
5	7.0	1.6	4.8	---	---	---	4.3	.1	3.1	.4	.2	.3
6	6.3	1.2	3.5	6.0	.1	1.8	7.5	1.0	4.6	.4	.1	.2
7	3.5	.2	1.6	4.5	.1	1.1	6.2	2.3	4.9	.1	.1	.1
8	.2	.0	.1	3.8	.3	1.4	5.2	.8	4.1	.1	.1	.1
9	.1	.0	.1	1.2	.1	.2	6.8	.7	4.3	---	---	---
10	.1	.0	.1	1.4	.1	.4	7.8	5.0	6.2	6.1	.1	2.0
11	4.4	.0	1.1	2.5	.1	.5	7.7	5.6	6.4	4.8	.1	1.2
12	5.7	.6	3.3	1.2	.1	.3	7.5	5.2	6.4	---	---	---
13	8.0	.5	3.4	1.1	.1	.2	6.9	5.6	6.2	.3	.0	.1
14	7.3	5.7	6.7	1.6	.1	.3	6.2	.1	2.5	3.5	.0	.4
15	6.9	4.1	5.9	1.0	.1	.2	.2	.0	.1	6.8	2.3	4.8
16	5.8	2.2	4.0	.5	.1	.2	.0	.0	.0	8.9	5.2	6.8
17	2.9	1.3	1.8	3.4	.1	.5	.1	.0	.0	6.8	4.0	5.5
18	1.9	.3	1.2	7.6	.0	1.0	4.3	.0	1.0	4.7	1.3	2.8
19	2.3	.2	.7	---	---	---	3.7	.0	1.2	2.6	.0	.6
20	4.8	.8	2.8	---	---	---	4.9	3.5	4.1	1.7	.0	.2
21	5.4	3.7	4.9	---	---	---	4.7	.0	.8	---	---	---
22	6.0	4.9	5.4	---	---	---	.0	.0	.0	---	---	---
23	5.9	5.5	5.7	---	---	---	1.2	.0	.1	---	---	---
24	5.8	5.3	5.6	---	---	---	3.3	.1	1.1	---	---	---
25	6.1	5.6	5.7	---	---	---	.2	.1	.1	---	---	---
26	6.0	4.4	5.4	---	---	---	.2	.2	.2	---	---	---
27	5.7	4.4	5.1	6.9	1.5	5.0	.2	.1	.2	---	---	---
28	5.3	3.4	4.5	6.7	.2	3.3	2.1	.1	.3	---	---	---
29	4.7	.1	1.4	4.3	.1	.7	.6	.2	.3	---	---	---
30	3.2	.1	.5	4.9	.1	1.4	---	---	---	---	---	---
31	---	---	---	.1	.1	.1	.2	.1	.1	---	---	---
MONTH	8.0	.0	3.3	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	66	47	59	120	97	111	86	72	79	---	---	---
2	66	55	59	116	90	107	84	76	79	---	---	---
3	61	48	53	---	---	---	85	76	80	---	---	---
4	61	53	55	109	60	79	83	80	82	---	---	---
5	63	56	58	115	62	96	82	76	79	---	---	---
6	64	58	60	98	71	87	---	---	---	---	---	---
7	68	59	63	96	64	77	---	---	---	---	---	---
8	70	62	66	104	51	85	---	---	---	---	---	---
9	74	58	68	97	44	66	---	---	---	---	---	---
10	75	70	73	87	52	76	---	---	---	---	---	---
11	74	66	71	79	65	74	---	---	---	---	---	---
12	70	58	67	80	68	75	---	---	---	120	98	103
13	72	48	63	74	59	68	---	---	---	103	96	99
14	62	47	54	76	64	72	---	---	---	122	95	106
15	72	42	53	81	71	76	---	---	---	137	96	109
16	71	37	46	74	58	70	---	---	---	121	100	105
17	70	25	40	76	57	69	---	---	---	135	96	105
18	71	15	50	74	45	66	---	---	---	124	95	104
19	72	18	55	74	57	68	---	---	---	122	91	108
20	73	17	37	80	56	69	---	---	---	106	88	96
21	72	10	36	78	70	73	---	---	---	111	85	93
22	91	15	69	81	71	77	---	---	---	109	88	95
23	88	8	68	87	70	79	---	---	---	96	83	89
24	85	36	67	81	66	76	---	---	---	136	81	101
25	114	37	68	85	57	76	---	---	---	---	---	---
26	94	60	84	90	78	84	---	---	---	---	---	---
27	93	68	84	90	69	84	---	---	---	110	92	100
28	102	68	88	86	73	82	---	---	---	120	87	95
29	112	83	96	92	75	79	---	---	---	138	84	107
30	117	87	102	84	77	81	---	---	---	112	91	99
31	114	90	103	---	---	---	---	---	---	108	92	97
MONTH	117	8	65	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	113	89	95	91	85	88	89	83	85	85	74	79
2	108	87	92	95	85	89	90	86	88	94	77	84
3	97	80	87	91	84	88	89	82	86	109	82	92
4	114	89	99	93	67	86	89	82	85	136	85	103
5	106	84	95	87	76	82	92	82	87	131	88	108
6	114	84	97	94	81	89	94	84	88	116	85	104
7	130	94	107	99	91	95	99	86	91	118	86	100
8	118	91	101	98	90	94	94	84	89	107	88	98
9	104	86	92	98	91	95	91	82	86	106	61	89
10	104	89	95	98	93	96	92	79	84	98	63	86
11	101	89	93	96	92	94	87	75	81	100	72	85
12	94	88	91	97	93	95	80	73	76	94	70	80
13	91	79	84	101	94	98	80	70	76	100	74	85
14	84	75	81	101	97	99	78	64	70	107	60	88
15	89	81	85	99	93	95	70	62	66	95	60	86
16	94	82	88	98	93	95	80	60	73	97	28	78
17	90	77	84	97	89	93	81	59	76	88	70	79
18	90	80	85	96	87	92	84	71	78	82	56	72
19	89	80	85	99	93	96	84	72	79	100	71	86
20	90	81	85	100	91	98	84	75	78	115	69	97
21	91	84	86	100	86	93	88	81	84	92	69	82
22	89	75	84	94	85	90	87	82	84	101	75	85
23	90	80	85	94	87	91	87	80	84	99	77	87
24	89	82	86	91	83	86	88	81	84	101	73	88
25	90	84	87	92	84	88	91	84	87	102	74	86
26	92	87	90	88	81	85	91	85	89	93	78	84
27	95	86	91	88	77	86	90	72	79	87	76	82
28	90	86	88	91	84	88	91	74	79	82	74	78
29	---	---	---	97	87	91	88	78	80	83	69	77
30	---	---	---	96	86	91	88	75	80	86	34	74
31	---	---	---	88	83	86	---	---	---	81	19	67
MONTH	130	75	90	101	67	91	99	59	82	136	19	86

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	86	67	77	96	68	81	126	11	67	62	2	32
2	90	68	79	84	53	74	115	30	70	19	3	3
3	89	68	79	---	---	---	103	47	77	---	---	---
4	---	---	---	---	---	---	104	59	70	58	4	17
5	---	---	---	---	---	---	89	57	69	63	5	22
6	87	69	78	102	41	85	105	68	83	79	2	30
7	87	72	78	122	74	94	80	64	72	89	18	50
8	80	66	72	101	74	85	106	64	80	99	48	80
9	68	30	58	96	60	83	103	77	92	---	---	---
10	66	36	58	99	60	80	114	79	95	89	31	70
11	81	60	69	108	76	86	108	77	94	106	36	80
12	96	69	82	99	32	83	106	67	91	---	---	---
13	110	72	92	103	70	83	96	79	87	83	0	31
14	99	83	88	83	63	72	87	71	79	106	4	60
15	93	63	78	103	55	75	78	2	41	89	48	76
16	82	57	73	108	62	82	54	2	12	104	64	82
17	76	60	68	123	76	93	85	54	66	83	57	70
18	80	62	67	119	76	90	75	58	67	69	40	51
19	72	54	64	---	---	---	74	56	66	83	25	46
20	67	55	62	---	---	---	74	60	66	110	20	70
21	74	60	66	---	---	---	69	59	64	---	---	---
22	72	59	66	---	---	---	67	46	61	---	---	---
23	74	66	69	---	---	---	61	38	49	---	---	---
24	70	62	65	---	---	---	55	35	44	---	---	---
25	70	62	66	---	---	---	64	8	38	---	---	---
26	77	55	67	---	---	---	54	9	27	---	---	---
27	89	55	71	105	51	92	59	11	32	---	---	---
28	90	64	73	138	74	101	83	39	55	---	---	---
29	92	59	69	127	14	77	73	43	58	---	---	---
30	83	65	73	106	69	87	59	42	50	---	---	---
31	---	---	---	155	19	87	63	4	43	---	---	---
MONTH	---	---	---	---	---	---	126	2	63	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	17	8	11	95	83	89	68	60	65	89	69	75
2	53	9	28	92	76	85	80	59	67	85	67	76
3	57	18	45	---	---	---	81	72	77	83	72	77
4	60	52	56	73	55	64	85	76	81	86	74	79
5	63	56	60	82	58	74	79	74	77	94	71	81
6	63	59	61	73	53	65	---	---	---	86	72	78
7	70	17	40	60	36	49	---	---	---	77	63	70
8	69	14	37	43	24	33	---	---	---	67	56	60
9	77	19	65	40	18	25	---	---	---	64	56	60
10	78	67	73	79	39	63	---	---	---	74	58	66
11	74	34	53	82	59	73	---	---	---	96	64	76
12	46	36	42	79	57	67	---	---	---	84	66	74
13	47	41	44	62	48	54	---	---	---	77	72	74
14	45	39	42	59	42	49	---	---	---	78	69	72
15	41	35	38	53	30	38	---	---	---	95	66	76
16	36	31	34	31	17	26	---	---	---	87	59	71
17	33	19	29	37	11	22	---	---	---	72	62	66
18	23	3	10	53	19	39	---	---	---	77	58	69
19	6	1	2	51	36	44	---	---	---	99	62	78
20	4	1	3	68	40	51	---	---	---	101	72	88
21	3	3	3	69	45	56	---	---	---	92	60	79
22	3	3	3	72	52	66	89	71	80	81	51	67
23	73	2	15	65	53	58	92	85	89	77	67	74
24	2	2	2	67	53	59	89	76	83	79	57	66
25	8	1	2	82	53	63	92	72	88	---	---	---
26	33	1	5	80	55	71	92	83	88	---	---	---
27	80	2	36	72	57	65	88	77	84	100	66	81
28	95	3	47	73	60	67	86	70	81	78	67	72
29	102	70	86	71	64	67	85	78	82	67	47	61
30	108	66	89	77	60	67	85	76	79	99	44	71
31	106	78	94	---	---	---	89	75	81	107	53	89
MONTH	108	1	37	---	---	---	---	---	---	---	---	---

02092162 NEUSE RIVER AT NEW BERN, NC--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	74	30	51	82	58	73	73	69	71	78	70	73
2	48	27	33	63	45	54	74	70	72	82	74	76
3	65	36	57	58	45	52	73	68	71	87	74	78
4	53	41	47	58	46	53	74	67	70	104	75	83
5	60	38	44	77	44	60	76	67	71	100	75	88
6	52	23	35	87	71	80	79	69	73	103	25	75
7	58	18	29	86	74	81	79	72	74	116	58	94
8	73	18	31	80	69	74	77	70	74	97	32	59
9	81	19	48	80	64	72	74	69	71	86	13	51
10	104	75	89	75	63	69	77	67	71	51	5	29
11	83	39	56	69	61	64	76	62	68	101	14	48
12	51	37	42	64	51	56	64	60	62	94	68	78
13	68	36	45	88	53	84	64	57	61	105	62	82
14	57	31	43	86	76	82	60	49	55	93	41	64
15	64	21	38	85	73	79	56	49	52	93	24	53
16	66	32	46	83	75	79	63	28	48	38	15	21
17	87	35	73	80	55	71	65	26	58	34	12	18
18	84	55	70	82	58	72	66	55	61	60	9	20
19	74	38	60	68	54	61	66	56	60	39	11	26
20	69	47	57	---	---	---	67	58	61	68	8	20
21	61	35	47	---	---	---	70	64	67	92	16	58
22	82	49	63	---	---	---	70	63	67	106	75	89
23	78	63	74	---	---	---	69	61	66	98	78	88
24	75	55	64	---	---	---	70	65	67	89	47	67
25	86	48	70	---	---	---	75	67	71	104	42	78
26	87	78	84	---	---	---	73	67	70	98	78	88
27	88	71	82	---	---	---	74	56	67	90	67	78
28	84	67	80	77	69	73	85	50	68	89	67	79
29	---	---	---	82	72	76	85	58	75	78	32	54
30	---	---	---	81	73	77	79	70	74	37	14	26
31	---	---	---	74	69	72	---	---	---	24	7	13
MONTH	104	18	56	---	---	---	85	26	67	116	5	60

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	86	5	38	89	22	58	3	1	1	2	2	2
2	74	31	58	88	7	50	20	1	2	2	2	2
3	73	23	46	---	---	---	34	1	6	3	2	3
4	86	19	36	---	---	---	54	1	18	3	3	3
5	86	19	59	---	---	---	53	2	39	4	3	4
6	78	15	43	77	2	24	96	13	58	4	1	3
7	43	2	19	58	1	14	79	29	62	1	1	1
8	3	0	1	48	3	18	66	10	51	1	1	1
9	1	0	1	16	1	3	91	9	56	---	---	---
10	1	0	1	18	1	5	105	65	82	76	1	25
11	55	0	14	32	1	6	104	74	85	61	1	15
12	73	8	41	16	1	4	100	68	85	---	---	---
13	103	6	43	14	2	2	91	73	81	4	1	2
14	92	71	85	20	2	4	81	1	32	43	0	5
15	86	51	73	12	1	3	3	0	1	82	29	59
16	72	28	50	6	1	2	0	0	0	104	60	80
17	36	16	22	43	1	7	2	0	0	79	47	64
18	23	3	14	97	1	13	56	0	13	54	16	33
19	29	2	9	---	---	---	47	0	15	30	0	7
20	60	9	34	---	---	---	62	44	52	20	0	2
21	67	46	61	---	---	---	59	0	11	---	---	---
22	76	60	67	---	---	---	0	0	0	---	---	---
23	75	69	71	---	---	---	15	0	1	---	---	---
24	72	65	70	---	---	---	41	1	14	---	---	---
25	77	69	71	---	---	---	2	1	2	---	---	---
26	75	54	67	---	---	---	2	2	2	---	---	---
27	72	54	63	87	20	64	2	2	2	---	---	---
28	66	43	56	84	2	41	26	2	4	---	---	---
29	59	1	17	55	1	9	8	3	4	---	---	---
30	41	1	6	61	1	17	---	---	---	---	---	---
31	---	---	---	1	1	1	2	1	1	---	---	---
MONTH	103	0	41	---	---	---	---	---	---	---	---	---

02092500 TRENT RIVER NEAR TRENTON, NC

LOCATION.--Lat 35°03'54", long 77°27'24", 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 sea level. 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 fair. 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 July 23.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	332	14	105	67	48	165	250	17	38	72	82	46
2	227	13	89	63	46	151	240	15	192	51	58	46
3	159	13	86	60	42	137	224	14	306	40	41	42
4	122	27	104	57	42	182	205	12	367	40	41	39
5	100	18	124	54	54	288	180	11	373	41	35	37
6	82	12	134	53	85	350	158	10	307	38	24	33
7	71	18	134	52	104	362	138	8.7	210	30	17	31
8	61	14	128	51	105	335	118	7.0	146	23	12	29
9	51	9.6	120	49	100	272	103	6.5	98	19	8.5	29
10	45	9.6	114	47	93	207	90	6.9	75	21	6.8	35
11	43	12	112	45	84	163	78	6.3	51	14	7.6	37
12	39	14	113	44	75	134	68	5.9	36	12	6.9	41
13	34	13	114	45	77	118	58	7.6	28	9.6	6.9	38
14	32	12	114	46	84	106	49	8.8	40	7.9	9.3	34
15	28	12	120	48	90	103	42	7.2	312	6.9	23	33
16	26	17	129	50	92	141	38	8.2	479	6.0	49	31
17	24	27	128	52	105	172	35	11	565	5.0	71	27
18	23	18	127	50	165	174	33	12	666	3.7	86	23
19	22	20	126	47	209	161	33	12	732	3.9	110	19
20	21	28	118	51	198	150	31	10	730	3.3	140	17
21	21	42	109	69	176	372	28	8.9	616	3.1	165	15
22	18	48	98	78	166	585	26	8.5	402	2.8	162	13
23	15	49	87	80	213	779	23	8.7	224	2.7	143	11
24	15	52	78	76	263	897	21	8.5	154	4.6	111	10
25	15	50	72	71	271	816	20	7.4	191	4.6	92	9.7
26	13	107	67	65	249	637	21	6.6	310	3.7	81	14
27	12	147	63	60	217	466	22	6.3	373	3.5	70	10
28	12	152	65	56	186	330	23	6.4	318	3.1	60	8.7
29	13	132	71	51	---	237	21	15	173	3.2	53	9.2
30	12	117	72	47	---	230	19	33	108	58	48	8.4
31	12	---	70	47	---	247	---	38	---	79	46	---
TOTAL	1700	1217.2	3191	1731	3639	9467	2395	344.4	8620	615.6	1866.0	776.0
MEAN	54.8	40.6	103	55.8	130	305	79.8	11.1	287	19.9	60.2	25.9
MAX	332	152	134	80	271	897	250	38	732	79	165	46
MIN	12	9.6	63	44	42	103	19	5.9	28	2.7	6.8	8.4
CFSM	.33	.24	.61	.33	.77	1.82	.48	.07	1.71	.12	.36	.15
IN.	.38	.27	.71	.38	.81	2.10	.53	.08	1.91	.14	.41	.17

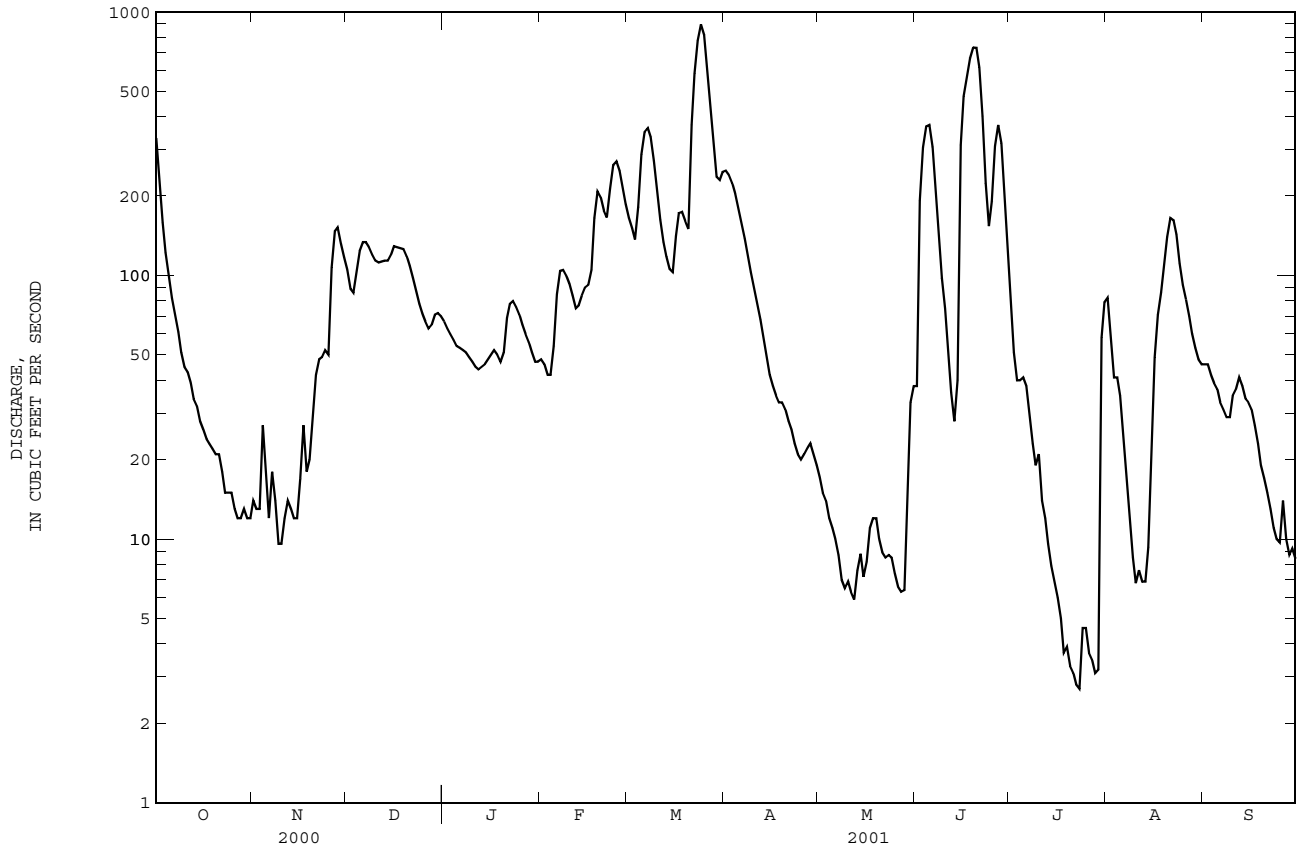
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2001, BY WATER YEAR (WY)

MEAN	110	88.2	164	301	332	341	211	115	126	148	170	176
MAX	864	295	551	703	1024	963	684	435	768	1381	1587	2121
(WY)	1972	1963	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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1951 - 2001	
ANNUAL TOTAL	71655.3		35562.2			
ANNUAL MEAN	196		97.4		191	
HIGHEST ANNUAL MEAN					316	1960
LOWEST ANNUAL MEAN					79.8	1985
HIGHEST DAILY MEAN	1390	Jan 28	897	Mar 24	12000	Sep 17 1999
LOWEST DAILY MEAN	2.5	Jul 19	2.7	Jul 23	.33	Oct 7 1993
ANNUAL SEVEN-DAY MINIMUM	3.3	Jul 14	3.4	Jul 18	.39	Oct 22 1973
MAXIMUM PEAK FLOW			907	Mar 24	15000*	Sep 17 1999
MAXIMUM PEAK STAGE			11.68	Mar 24	22.33*	Sep 17 1999
INSTANTANEOUS LOW FLOW			2.6*	Jul 22	.30*	Oct 23 1974
ANNUAL RUNOFF (CFSM)	1.17		.58		1.14	
ANNUAL RUNOFF (INCHES)	15.87		7.87		15.48	
10 PERCENT EXCEEDS	568		233		472	
50 PERCENT EXCEEDS	86		49		80	
90 PERCENT EXCEEDS	13		8.6		8.2	

* See REMARKS.

02092500 TRENT RIVER NEAR TRENTON, NC--Continued



02092554 TRENT RIVER AT POLLOCKSVILLE, NC

LOCATION.--Lat 35°00'38", long 77°13'10", 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 sea level. Prior to Oct. 1999 datum reported as 10 ft below sea level. Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from flood mark. 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. The published 24.0 hour 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1140	129	266	210	98	e450	654	190	345	383	588	160
2	990	99	18	240	239	e400	581	118	878	14	614	1.5
3	969	93	383	187	104	e300	614	111	900	292	381	296
4	632	163	476	203	238	e450	360	92	711	285	318	178
5	482	69	418	230	233	e550	631	113	640	194	245	-29
6	437	199	397	144	285	847	593	-540	634	17	246	122
7	238	158	378	201	221	546	342	402	537	248	256	173
8	226	113	393	205	287	684	407	103	414	272	157	107
9	413	108	202	158	292	628	341	131	375	35	191	149
10	323	140	472	141	142	513	23	178	371	387	157	164
11	290	39	309	207	158	564	462	171	310	430	138	40
12	193	65	301	115	367	396	377	124	224	64	134	58
13	255	168	e200	96	257	438	137	-128	138	312	125	121
14	213	155	e500	234	283	250	211	130	94	137	120	48
15	174	79	e300	193	226	396	338	121	843	209	349	-283
16	164	165	368	142	318	339	33	-99	1030	167	304	e375
17	90	143	519	147	197	431	178	247	1250	128	227	e425
18	194	85	221	232	415	369	265	158	e1350	109	269	171
19	135	23	348	193	503	298	191	19	1420	138	243	29
20	227	411	265	458	457	247	192	106	1270	172	360	151
21	192	207	320	377	e350	1020	188	246	1130	138	424	69
22	-4.9	127	366	225	e450	1250	152	160	1060	305	464	64
23	82	108	168	400	e520	1240	154	-168	954	324	544	121
24	232	135	330	370	513	1280	191	113	648	423	304	195
25	187	126	183	300	675	e1400	-124	226	458	211	129	44
26	123	509	252	253	392	e1300	81	86	490	115	247	121
27	94	376	258	261	e600	e1200	316	189	505	-169	344	88
28	142	361	e200	251	e500	1120	-138	103	549	232	190	-2.7
29	198	307	174	193	---	951	257	112	530	e500	103	-3.4
30	80	288	353	258	---	813	241	216	488	e400	186	88
31	79	---	206	236	---	730	---	118	---	920	146	---
TOTAL	9189.1	5148	9544	7060	9320	21400	8248	3148	20546	7392	8503	3240.4
MEAN	296	172	308	228	333	690	275	102	685	238	274	108
MAX	1140	509	519	458	675	1400	654	402	1420	920	614	425
MIN	-4.9	23	18	96	98	247	-138	-540	94	-169	103	-283

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2001, BY WATER YEAR (WY)

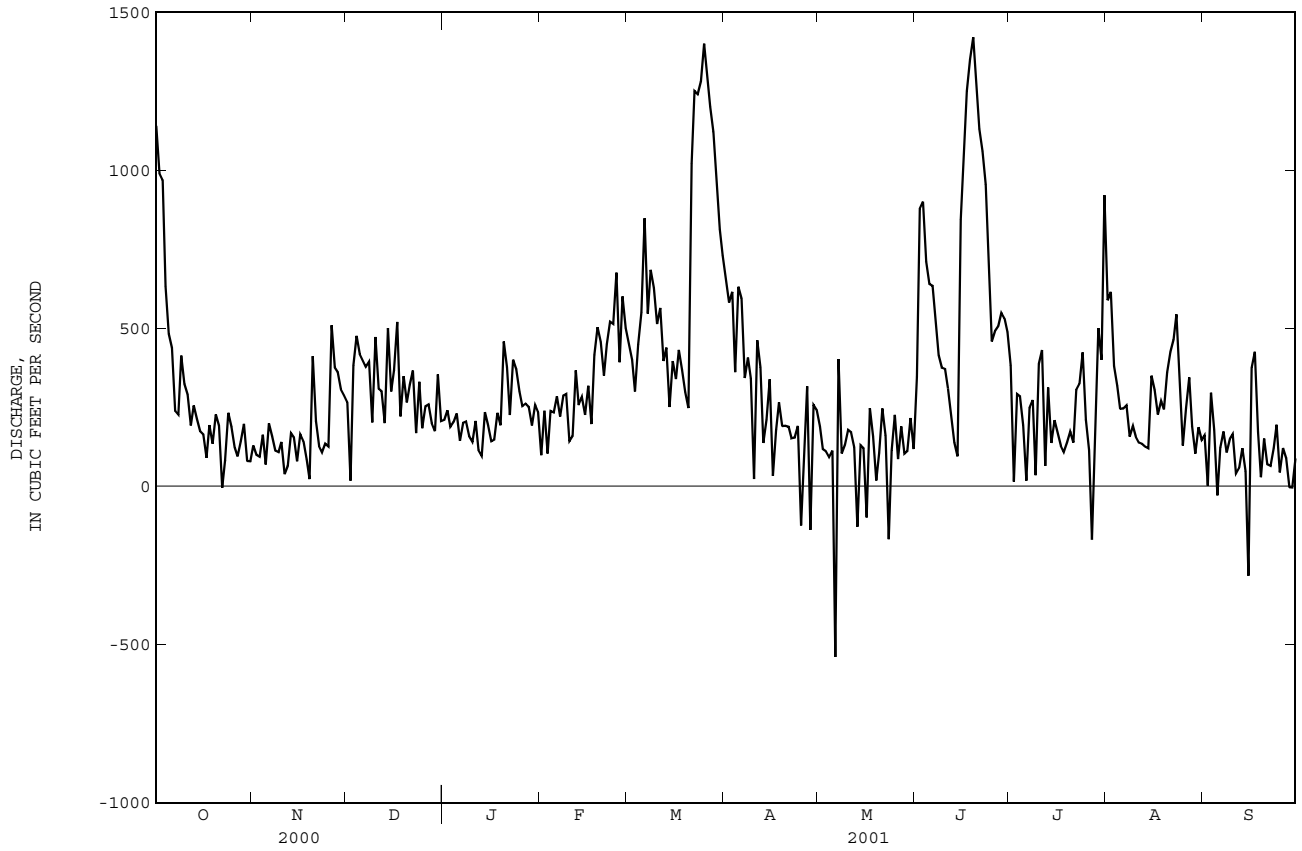
MEAN	586	230	331	584	918	584	367	222	234	264	255	1380
MAX	1397	418	672	888	2187	847	615	308	685	642	543	4511
(WY)	2000	2000	1997	1998	1998	1998	1998	2000	2001	1996	2000	1999
MIN	38.0	40.8	125	228	333	310	165	102	35.1	69.9	-1.28	48.3
(WY)	1999	1999	1999	2001	2001	1999	1999	2001	1999	1998	1999	1997

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1996 - 2001	
ANNUAL TOTAL	177116.0		112738.5			
ANNUAL MEAN	484		309		478	
HIGHEST ANNUAL MEAN					590	2000
LOWEST ANNUAL MEAN					309	2001
HIGHEST DAILY MEAN	2060	Sep 8	1420	Jun 19	17500	Sep 19 1999
LOWEST DAILY MEAN	-139	Jun 3	-540	May 6	-1060	Aug 30 1999
ANNUAL SEVEN-DAY MINIMUM	102	Oct 30	42	Sep 9	-136	Aug 24 1999
MAXIMUM PEAK FLOW			2100	Mar 21	18600	Sep 19 1999
MAXIMUM PEAK STAGE			3.88	Mar 21	16.29*	Sep 19 1999
INSTANTANEOUS LOW FLOW			-1530	Mar 21	-3560	Sep 6 1996
10 PERCENT EXCEEDS	1170		629		1190	
50 PERCENT EXCEEDS	331		234		264	
90 PERCENT EXCEEDS	99		82		19	

e Estimated.
* See REMARKS.

Note. -- Negative values indicate reverse flow.

02092554 TRENT RIVER AT POLLOCKSVILLE, NC--Continued



0209262905 NEUSE RIVER AT CHANNEL LIGHT 11

LOCATION.--Lat. 34°59'56", long. 76°56'36", 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. 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760 mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	16.6, August 12, 2000	<0.1, on many days during the period
SALINITY (BOTOM), ppt	22.0, August 15, 2001	<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	9.3, September 23, 1998	5.4, October 10, 1999
WATER TEMPERATURE (TOP), °C	33.3, August 1, 1999	1.6, January 29, 2000
WATER TEMPERATURE (BOTTOM), °C	30.5, June 28, 1998	1.7, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	20.0, February 18, 1992	<1.0, on several days during the period
DISSOLVED OXYGEN (BOTTOM), mg/L	21.2, February 20, 1991	<1.0, on many days during the period

EXTREMEMS FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	15.5, September 30	0.4, March 30, April 10
SALINITY (BOTTOM), ppt	22.0, August 15	0.9, March 30
pH (TOP), standard units	9.1, July 9	6.7, October 6, January 1, April 13
pH (BOTTOM), standard units	8.7, January 23	6.5, May 22, 25-27
WATER TEMPERATURE (TOP), °C	31.7, August 8	1.0, January 5
WATER TEMPERATURE (BOTTOM), °C	28.5, July 25	2.3, January 3
DISSOLVED OXYGEN (TOP), mg/L	14.4, March 8	1.5, August 20
DISSOLVED OXYGEN (BOTTOM), mg/L	12.0, November 28	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	178, June 10	19, August 20
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	125, July 6	<10, on many days during the year

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DATE	TIME	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	SAM-PLING DEPTH (FEET) (00003)	TEMPER-ATURE WATER (DEG C) (00010)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70953)
MAY													
02...	1600	--	2.80	20.6	5890	11.6	8.8	--	--	1.0	--	--	6.9
02...	1607	--	9.50	17.5	14800	1.6	6.8	--	--	.98	--	--	3.8
30...	1800	--	3.00	25.0	9510	9.2	8.3	--	--	1.2	--	--	21.0
30...	1807	--	9.50	22.9	26200	M	6.9	--	--	1.0	--	--	<.1
JUN													
27...	0700	.80	3.00	27.2	3780	7.4	7.7	--	--	--	--	--	3.0
27...	0707	.80	9.50	26.1	20600	.6	6.7	--	--	--	--	--	3.0
27...	0800	.80	3.00	27.0	3900	7.6	7.5	.021	.003	.78	.244	.031	2.5
27...	0807	.80	9.50	27.7	9940	7.8	8.2	.053	.001	.82	.037	.018	4.7
JUL													
03...	1200	--	3.00	26.7	15900	7.8	7.9	--	--	--	--	--	6.1
03...	1207	--	9.00	26.2	17900	4.6	7.2	--	--	--	--	--	2.3
18...	0900	--	3.00	25.9	12300	6.7	7.7	.037	<.001	.76	.006	.069	12.4
18...	0907	--	9.00	26.1	20800	.9	7.1	.194	<.001	.42	.007	.227	E.3
26...	1000	.80	2.50	27.8	14800	6.5	7.7	.048	<.001	.87	.005	.094	2.5
26...	1007	.80	8.50	27.2	19100	1.1	7.0	.061	<.001	.93	.007	.163	16.1
26...	1300	.80	2.50	28.2	15200	7.1	8.1	.052	<.001	.70	.010	.102	1.9
26...	1307	.80	8.60	26.7	20800	.6	7.3	.096	.001	.65	.009	.201	7.5
AUG													
06...	1100	--	3.00	28.2	9600	11.1	8.8	.038	<.001	3.7	<.005	.068	3.0
06...	1107	--	9.00	26.5	18800	.5	6.9	.144	.001	17	.018	.100	<.1
15...	1000	--	3.00	27.9	8870	7.4	8.1	.096	.002	1.2	.005	.096	3.6
15...	1007	--	9.00	27.2	33700	M	7.3	.183	.004	22	.016	.077	<.1
20...	1400	--	3.00	27.8	15800	6.6	7.9	.028	<.001	.50	<.005	.086	5.6
20...	1407	--	9.00	27.2	31000	M	7.3	.148	<.001	.44	<.005	.197	3.6
23...	1000	--	3.00	27.7	7220	10.1	8.7	.016	<.001	.58	.005	.063	--
23...	1007	--	9.00	27.7	27900	M	7.4	.039	<.001	.69	.005	.087	--
31...	1100	--	3.00	27.2	27600	.2	7.1	E.019	E.001	.80	E.005	E.054	2.4
31...	1107	--	9.23	27.2	27600	.2	7.1	E.092	E.001	.19	<.005	E.122	<.1
SEP													
06...	1000	--	2.50	25.8	16600	8.3	8.3	.055	.003	.48	.016	.098	4.7
06...	1007	--	9.00	25.7	17100	7.0	8.1	.045	.001	.51	.007	.108	E1.5
13...	1000	--	3.00	25.9	14600	7.8	8.4	.049	.002	.57	.007	.108	3.2
13...	1007	--	9.00	25.9	16500	6.3	8.2	.051	.002	.43	.008	.099	<.1
21...	1000	--	3.00	23.8	16300	9.1	8.4	.053	.001	.45	.009	.066	.3
21...	1007	--	9.00	23.9	22700	3.8	7.5	.091	.001	.36	.010	.080	<.1

DATE	CHLOR-B PHYTO-PLANK-TON CHROMO FLUOROM (UG/L) (70954)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS NH4) (71846)	NITRO-GEN, AMMONIA TOTAL (MG/L AS NH4) (71845)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS N) (00618)	NITRO-GEN, NITRATE DIS-SOLVED (MG/L AS NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS NO2) (71856)	NITRO-GEN, TOTAL (MG/L AS N) (00600)
MAY													
02...	--	.98	.02	<.01	<.02	.060	.010	--	.03	--	--	--	--
02...	--	.97	.01	<.01	<.02	.040	.010	--	.01	--	--	--	--
30...	--	1.2	.02	<.01	<.02	.040	.040	--	.03	--	--	--	--
30...	--	.95	.05	<.01	<.02	.160	.110	--	.06	--	--	--	--
JUN													
27...	<.1	--	--	--	--	--	--	--	--	--	--	--	--
27...	<.1	--	--	--	--	--	--	--	--	--	--	--	--
27...	<.1	.76	--	--	--	.090	--	.03	--	.241	1.07	.010	1.0
27...	<.1	.77	--	--	--	.085	--	.07	--	.036	.159	.003	.86
JUL													
03...	3.6	--	--	--	--	--	--	--	--	--	--	--	--
03...	<.1	--	--	--	--	--	--	--	--	--	--	--	--
18...	E.2	.73	--	--	--	.118	--	.05	--	--	--	--	.77
18...	<.1	.23	--	--	--	.181	--	.25	--	--	--	--	.43
26...	<.1	.82	--	--	--	.159	--	.06	--	--	--	--	.88
26...	<.1	.87	--	--	--	.196	--	.08	--	--	--	--	.94
26...	<.1	.65	--	--	--	.176	--	.07	--	--	--	--	.71
26...	E.1	.55	--	--	--	.170	--	.12	--	.008	.035	.003	.66
AUG													
06...	<.1	3.6	--	--	--	--	--	.05	--	--	--	--	--
06...	<.1	17	--	--	--	--	--	.19	--	.017	.075	.003	17
15...	<.1	1.1	--	--	--	--	--	.12	--	.003	.013	.007	1.2
15...	<.1	22	--	--	--	--	--	.24	--	.012	.053	.013	22
20...	.5	.48	--	--	--	--	--	.04	--	--	--	--	--
20...	E.3	.29	--	--	--	--	--	.19	--	--	--	--	--
23...	--	.56	--	--	--	--	--	.02	--	--	--	--	.59
23...	--	.65	--	--	--	--	--	.05	--	--	--	--	.69
31...	E.3	--	--	--	--	--	--	--	--	--	--	--	--
31...	<.1	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
06...	E.2	.43	--	--	--	--	--	.07	--	.013	.058	.010	.50
06...	<.1	.47	--	--	--	--	--	.06	--	.006	.027	.003	.52
13...	<.1	.52	--	--	--	--	--	.06	--	.005	.022	.007	.57
13...	<.1	.38	--	--	--	--	--	.07	--	.006	.027	.007	.44
21...	<.1	.40	--	--	--	--	--	.07	--	.008	.035	.003	.46
21...	<.1	.27	--	--	--	--	--	.12	--	.009	.040	.003	.37

DATE	PHOS-PHATE, ORTHO, DIS-SOLVED (MG/L AS PO4) (00660)	PHOS-PHATE, TOTAL (MG/L AS PO4) (00650)
MAY		
02...	--	.031
02...	--	.031
30...	--	.123
30...	--	.337
JUN		
27...	--	--
27...	--	--
27...	.095	--
27...	.055	--
JUL		
03...	--	--
03...	--	--
18...	.212	--
18...	.696	--
26...	.288	--
26...	.500	--
26...	.313	--
26...	.616	--
AUG		
06...	.209	--
06...	.307	--
15...	.294	--
15...	.236	--
20...	.264	--
20...	.604	--
23...	.193	--
23...	.267	--
31...	--	--
31...	--	--
SEP		
06...	.300	--
06...	.331	--
13...	.331	--
13...	.304	--
21...	.202	--
21...	.245	--

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.8	3.0	3.9	7.6	7.2	7.4	7.3	6.5	7.2	7.2	6.2	6.6
2	5.6	3.0	4.6	7.5	7.3	7.4	7.7	7.2	7.5	7.0	6.3	6.7
3	3.6	1.9	2.5	7.3	7.2	7.2	8.0	7.7	7.8	7.1	6.1	6.7
4	4.8	3.3	4.2	7.3	6.5	7.1	7.9	5.7	6.9	7.1	6.0	6.5
5	3.6	1.4	2.3	7.6	6.7	7.4	6.8	4.1	5.5	7.2	5.5	6.6
6	2.5	.7	1.2	7.5	5.8	7.0	5.5	3.7	4.5	7.2	6.9	7.1
7	4.5	1.7	2.9	7.4	5.5	6.0	5.9	4.1	5.0	7.0	6.1	6.6
8	8.4	3.1	5.4	7.1	5.3	5.7	7.0	5.1	6.0	7.0	6.1	6.6
9	8.1	4.8	5.8	7.5	5.2	6.4	6.9	6.2	6.6	7.4	6.4	6.8
10	6.6	5.5	5.9	8.4	7.2	7.8	7.2	5.9	6.6	9.6	7.1	8.0
11	6.4	3.5	5.2	8.8	7.1	8.1	6.0	4.6	5.4	8.7	7.5	8.1
12	3.8	2.9	3.4	8.6	7.8	8.1	8.1	5.2	6.7	8.9	7.6	8.1
13	3.4	2.0	2.9	7.9	6.3	7.1	7.3	6.6	6.9	9.0	8.5	8.8
14	2.7	1.7	2.2	8.4	6.4	7.3	7.1	6.7	7.0	9.5	8.0	8.5
15	4.0	2.4	3.3	8.0	7.3	7.6	7.3	7.0	7.2	9.5	6.5	7.8
16	4.0	2.6	3.2	7.9	6.4	7.4	7.3	6.4	7.0	9.4	8.2	8.7
17	3.2	.9	2.8	9.0	6.6	8.5	---	---	---	8.9	7.7	8.4
18	5.0	2.7	3.7	9.2	8.3	8.7	7.7	6.3	7.4	8.0	6.5	7.4
19	6.6	4.2	5.7	9.0	8.1	8.6	7.8	6.0	6.9	9.5	7.1	8.3
20	6.1	5.8	6.0	9.7	8.5	9.0	---	---	---	9.6	8.4	9.1
21	6.3	5.6	5.8	9.5	8.3	9.0	6.4	5.2	6.0	10.6	7.3	9.5
22	6.7	5.6	6.0	9.5	9.2	9.4	7.0	2.9	5.3	9.2	7.6	8.5
23	7.2	6.5	6.8	9.5	9.2	9.3	7.1	6.3	6.7	9.2	7.0	8.5
24	7.4	6.4	6.7	9.4	8.6	9.3	6.4	4.4	5.8	9.2	6.6	8.1
25	7.2	6.3	6.6	9.3	5.9	8.8	7.8	4.2	6.6	9.5	6.6	8.6
26	6.9	6.4	6.7	8.4	5.9	7.8	7.7	4.9	6.1	9.8	8.2	9.2
27	7.0	6.8	6.9	8.9	7.9	8.6	5.6	3.1	4.3	10.6	8.8	10.0
28	7.3	6.7	7.0	9.1	6.8	8.3	6.1	3.0	4.9	9.5	7.6	9.1
29	7.5	7.0	7.3	8.4	5.2	6.0	6.9	4.9	5.8	8.5	5.5	6.7
30	7.6	2.0	7.2	8.9	6.6	8.5	6.8	5.7	6.4	9.5	6.8	8.7
31	7.6	7.4	7.5	---	---	---	---	---	---	9.8	8.9	9.3
MONTH	8.4	.7	4.9	9.7	5.2	7.8	---	---	---	10.6	5.5	8.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.6	7.9	8.8	6.6	4.3	5.3	3.5	1.2	2.1	5.1	2.9	3.7
2	8.3	6.2	7.6	7.4	4.7	5.8	4.0	1.4	2.6	4.0	2.1	2.8
3	7.6	7.0	7.3	5.6	2.7	4.7	2.7	1.1	2.1	2.6	1.6	2.3
4	7.7	7.1	7.5	5.2	1.9	3.6	2.1	.5	1.0	2.4	1.5	2.0
5	8.3	7.0	7.5	---	---	---	2.2	.6	1.3	6.6	1.8	2.8
6	7.8	6.3	6.9	---	---	---	2.5	1.4	1.7	6.6	2.7	4.6
7	7.8	6.2	7.2	---	---	---	2.0	1.1	1.4	8.0	5.0	6.4
8	8.1	7.1	7.7	6.1	5.3	5.8	3.6	.9	1.4	5.9	4.3	5.3
9	7.7	6.9	7.2	6.5	5.4	6.0	5.5	.8	2.5	6.2	3.7	5.4
10	---	---	---	7.0	5.0	6.0	2.6	.4	1.3	6.1	3.9	5.0
11	8.8	8.4	8.6	6.6	3.1	4.7	3.7	.8	1.8	6.5	4.5	5.2
12	8.6	6.0	7.5	4.8	2.9	3.5	4.4	.9	2.0	7.7	5.4	6.0
13	8.0	6.6	7.5	7.3	3.7	6.5	3.1	.5	1.8	8.1	6.2	7.2
14	8.3	5.2	6.2	7.8	6.7	7.3	2.5	1.4	2.1	7.6	6.4	6.9
15	9.8	6.9	9.0	7.5	4.3	6.1	3.5	1.4	2.0	7.6	6.4	6.9
16	---	---	---	6.6	5.3	6.1	7.1	3.0	5.3	8.2	6.2	7.0
17	---	---	---	5.5	4.2	4.8	6.5	5.5	6.0	8.2	5.9	7.5
18	9.0	8.6	8.9	5.3	4.1	4.5	6.7	4.4	6.3	8.0	5.6	6.6
19	9.0	7.0	8.3	5.9	4.4	5.1	6.2	3.6	4.9	7.3	5.9	6.9
20	8.6	6.2	7.5	7.0	5.0	6.1	5.5	3.8	4.7	7.3	6.4	7.0
21	8.7	6.7	7.8	---	---	---	4.9	3.6	4.4	7.0	1.6	6.6
22	8.6	7.2	8.0	---	---	---	5.0	2.3	4.2	7.0	5.1	6.3
23	8.9	6.8	7.8	---	---	---	4.3	2.1	3.6	8.5	6.1	7.6
24	7.5	5.9	6.9	---	---	---	4.6	2.0	3.5	8.0	6.6	7.6
25	7.0	5.1	5.9	---	---	---	5.8	2.9	5.0	8.0	6.0	7.2
26	7.5	5.3	6.2	---	---	---	6.4	4.8	5.6	8.0	6.3	6.9
27	6.6	5.6	6.3	---	---	---	5.7	2.1	3.5	8.6	6.8	7.3
28	7.2	4.7	5.9	3.3	2.2	3.1	6.5	2.8	4.6	8.2	7.5	7.8
29	---	---	---	2.6	1.7	2.0	6.0	5.0	5.4	8.3	6.2	7.3
30	---	---	---	2.0	.4	.9	5.2	3.5	4.7	7.6	5.2	6.3
31	---	---	---	3.4	.6	1.3	---	---	---	8.9	6.9	8.2
MONTH	---	---	---	---	---	---	7.1	.4	3.3	8.9	1.5	6.0

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	7.6	8.6	11.9	7.6	9.6	9.5	6.0	7.6	11.6	10.2	11.1
2	8.6	7.9	8.3	12.0	3.5	10.1	8.0	5.3	6.6	11.6	10.0	10.8
3	8.6	6.5	7.6	10.5	6.3	8.8	8.4	5.8	6.8	10.6	9.3	10.2
4	7.8	4.0	6.5	11.5	7.6	9.5	7.1	5.7	6.3	11.7	9.8	10.8
5	7.7	3.3	5.7	11.9	10.7	11.3	7.2	4.9	6.2	11.5	8.4	9.9
6	8.1	5.9	6.7	11.7	8.4	10.5	6.9	4.4	5.4	11.2	9.8	10.3
7	7.4	5.5	6.6	10.6	8.0	9.2	7.8	3.6	5.7	11.1	9.8	10.6
8	8.1	5.0	7.5	9.2	8.4	8.6	8.0	6.1	7.1	12.0	10.9	11.3
9	7.6	4.1	4.9	9.5	6.3	8.3	8.9	4.8	6.6	12.0	10.9	11.3
10	8.0	3.9	5.8	9.0	5.5	7.1	9.3	5.6	6.9	11.1	10.4	10.8
11	7.2	4.3	6.3	9.0	3.6	7.2	10.1	5.7	6.8	11.2	10.3	10.8
12	10.5	6.0	7.3	9.3	7.6	8.4	11.4	6.3	8.1	10.8	8.6	9.8
13	10.1	7.3	8.7	10.2	8.0	9.5	10.1	6.9	8.0	9.5	7.8	8.6
14	10.3	7.8	8.7	8.4	6.2	7.7	11.7	5.6	7.1	10.8	8.8	9.6
15	8.9	7.1	7.9	9.3	4.6	6.3	6.7	4.3	5.4	11.1	10.1	10.6
16	10.3	4.5	7.3	8.8	5.4	6.3	10.8	4.9	6.3	13.1	11.1	11.9
17	7.5	2.9	5.2	8.0	7.1	7.5	10.5	7.2	8.2	11.8	9.9	10.9
18	5.6	1.8	3.6	9.0	6.5	7.6	11.2	7.0	8.1	11.5	8.5	9.7
19	6.0	2.9	3.9	8.3	7.3	7.8	9.9	6.6	8.4	12.2	7.6	9.4
20	4.7	.9	3.3	8.9	7.9	8.3	13.7	7.2	9.2	11.6	8.1	9.7
21	4.3	.8	2.5	10.0	8.1	8.9	8.7	4.6	7.1	---	---	---
22	5.3	.9	3.3	8.3	5.7	7.1	6.6	4.4	5.5	12.8	9.7	10.5
23	4.9	1.0	3.5	8.4	6.5	7.5	8.9	3.2	4.6	12.4	8.8	11.0
24	4.7	.8	2.6	8.4	7.6	8.0	6.7	2.9	3.8	12.2	10.3	11.2
25	5.0	.8	2.8	9.2	8.4	8.8	6.5	2.7	4.3	11.5	11.0	11.3
26	5.0	.8	3.3	9.5	8.4	9.0	11.5	4.9	9.6	11.9	11.0	11.3
27	4.0	1.9	2.5	11.3	9.0	10.0	8.8	5.9	7.4	11.8	8.5	9.5
28	5.6	.9	1.8	11.3	9.7	10.9	10.9	7.9	9.2	14.2	8.9	10.3
29	6.8	2.2	3.3	10.9	9.2	10.1	10.9	9.1	10.2	15.0	12.3	14.2
30	10.5	3.6	6.9	11.2	9.8	10.6	10.7	8.3	9.6	15.5	13.8	14.7
31	---	---	---	10.4	9.0	9.7	10.9	8.0	9.4	---	---	---
MONTH	10.5	.8	5.4	12.0	3.5	8.7	13.7	2.7	7.1	---	---	---

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.6	2.9	4.3	7.6	7.3	7.5	9.0	7.3	8.1	7.7	7.1	7.4
2	5.4	4.4	4.8	7.6	7.4	7.4	8.9	7.4	7.7	7.7	6.5	7.0
3	7.4	4.6	5.8	7.7	7.2	7.5	8.0	7.7	7.9	11.3	6.7	7.9
4	7.5	4.5	6.4	8.5	7.6	8.0	9.0	7.2	8.2	12.2	9.7	11.2
5	7.8	5.6	7.0	8.5	7.3	7.7	9.7	8.7	9.3	12.4	8.6	11.8
6	8.4	6.7	7.6	8.2	7.6	7.7	9.7	9.5	9.6	12.8	10.2	11.9
7	9.9	5.8	8.5	8.3	8.1	8.2	9.8	8.6	9.5	12.7	12.3	12.5
8	9.7	3.2	6.3	8.8	8.3	8.4	10.3	9.2	9.8	12.6	12.3	12.5
9	8.8	4.7	7.0	9.3	8.5	8.9	10.3	6.5	8.0	12.6	7.4	11.3
10	8.0	5.9	6.8	10.2	7.6	8.6	10.7	6.7	9.4	13.3	7.4	10.6
11	8.0	6.1	6.5	9.5	7.1	8.3	10.9	7.2	10.1	13.5	10.7	12.4
12	6.7	5.1	6.2	10.2	7.9	9.0	11.1	6.9	9.4	14.3	9.3	13.1
13	7.3	5.6	6.4	11.3	9.6	10.7	11.4	7.2	8.3	10.7	9.1	9.4
14	8.1	7.3	7.9	11.0	8.1	10.0	11.8	7.0	9.0	14.7	10.7	13.8
15	9.7	7.9	8.5	10.3	7.6	8.6	7.8	7.1	7.2	14.1	12.5	13.5
16	10.7	9.6	10.4	12.1	10.2	11.1	7.4	6.8	7.3	14.4	12.1	13.3
17	10.9	9.8	10.5	13.1	9.1	11.1	8.9	5.5	6.8	14.3	13.0	13.7
18	11.3	10.8	11.1	13.1	8.8	9.9	8.4	7.3	8.0	13.7	12.0	12.9
19	11.3	9.5	10.9	12.4	8.6	9.1	8.1	6.2	7.7	13.9	9.7	12.1
20	11.0	7.7	9.4	11.7	9.0	10.2	7.6	6.0	7.0	12.2	9.7	10.9
21	10.9	8.5	9.8	10.9	9.0	9.4	7.5	6.3	6.6	11.3	9.5	10.7
22	11.5	6.7	10.3	9.6	9.2	9.4	9.8	6.1	7.7	11.4	8.5	9.8
23	7.8	6.3	6.8	9.5	9.2	9.3	7.0	6.2	6.6	10.0	8.7	9.2
24	10.8	6.2	7.6	9.4	9.3	9.4	9.7	6.1	7.6	11.6	9.2	10.4
25	10.4	6.8	7.8	9.4	9.0	9.3	9.7	6.3	7.5	12.0	8.6	10.1
26	7.6	6.6	6.9	9.2	8.3	8.8	8.8	6.8	8.2	12.0	9.8	10.7
27	7.0	6.8	6.9	9.2	8.6	8.9	10.4	8.5	9.3	12.3	11.0	11.6
28	7.9	7.0	7.6	9.5	8.8	9.0	10.3	5.1	7.7	11.7	9.9	10.7
29	7.6	7.2	7.4	9.6	8.7	9.3	9.3	5.3	6.9	11.7	10.0	11.6
30	7.6	7.2	7.4	9.1	8.2	8.7	9.8	6.3	8.4	11.3	9.4	10.1
31	7.6	7.4	7.5	---	---	---	7.5	6.2	6.9	10.4	9.5	10.0
MONTH	11.5	2.9	7.7	13.1	7.1	9.0	11.8	5.1	8.1	14.7	6.5	11.1

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.5	9.9	10.3	8.1	6.2	7.5	5.7	1.3	4.0	7.3	5.6	6.6
2	10.6	9.9	10.4	9.2	7.7	8.4	4.5	1.4	3.4	8.1	6.4	7.1
3	11.1	7.6	9.4	9.8	8.4	9.4	7.9	3.5	5.5	8.2	6.5	7.6
4	11.1	7.9	8.7	9.9	8.0	9.6	9.6	7.0	8.4	9.6	7.4	8.7
5	9.3	7.7	8.2	9.8	7.0	8.3	7.3	2.1	3.7	10.5	8.7	9.8
6	10.1	7.4	9.2	7.1	6.2	6.8	5.9	1.6	3.1	10.9	4.7	9.2
7	11.7	9.3	10.8	6.6	5.5	6.0	7.8	2.1	5.1	10.1	6.0	7.7
8	11.3	8.6	9.8	9.0	6.1	7.4	8.7	6.2	7.6	10.9	6.1	8.4
9	11.0	7.9	10.1	10.0	8.9	9.3	9.7	4.6	8.8	10.0	6.3	7.6
10	11.8	8.5	10.2	12.6	7.0	10.4	10.4	8.6	10.0	10.2	7.6	8.9
11	9.0	8.5	8.7	12.6	10.7	12.3	8.7	3.6	6.6	9.8	8.5	9.3
12	9.2	8.5	8.7	12.5	9.8	11.6	8.2	4.6	6.7	10.5	6.3	9.3
13	9.2	7.6	8.4	10.5	6.3	6.9	10.6	7.2	9.3	10.1	7.0	8.0
14	11.1	8.9	10.4	9.2	6.9	8.0	11.6	8.6	10.2	9.3	6.7	7.6
15	12.1	10.4	11.4	9.2	7.0	8.2	11.5	8.5	10.2	9.3	7.1	8.1
16	12.2	11.1	11.7	8.6	5.9	6.9	12.3	6.0	9.0	9.4	7.1	7.7
17	11.5	9.2	10.5	10.4	5.9	8.4	10.1	5.9	6.9	8.6	7.2	8.0
18	9.4	8.9	9.1	10.7	4.2	6.6	6.7	5.7	6.2	8.6	7.5	8.0
19	11.3	9.0	10.0	9.3	5.5	7.2	6.9	6.1	6.6	8.6	7.9	8.4
20	11.5	10.7	11.3	7.0	5.6	6.3	7.0	5.0	6.6	8.6	7.6	8.2
21	11.5	7.3	10.6	---	---	---	7.1	4.7	6.0	8.4	6.4	7.6
22	9.4	7.7	8.3	---	---	---	6.7	4.0	5.5	9.7	5.9	7.5
23	10.6	8.3	9.4	---	---	---	7.5	4.2	5.5	9.3	6.0	7.8
24	10.8	7.8	9.8	---	---	---	8.7	4.5	6.7	12.4	8.0	9.6
25	10.4	6.3	8.6	---	---	---	9.8	3.9	6.1	11.6	8.0	10.3
26	9.3	6.6	8.2	---	---	---	6.3	4.8	5.6	10.3	8.2	9.0
27	7.9	6.5	7.2	---	---	---	12.0	5.2	9.1	11.0	8.5	10.0
28	7.8	5.9	7.2	3.9	3.1	3.3	11.5	5.3	9.5	12.2	8.9	10.9
29	---	---	---	4.1	1.9	2.6	6.1	5.3	5.7	14.7	10.6	13.7
30	---	---	---	3.7	.9	2.4	6.7	5.2	5.8	15.9	13.1	15.1
31	---	---	---	5.3	3.6	4.6	---	---	---	15.9	8.1	10.6
MONTH	12.2	5.9	9.5	---	---	---	12.3	1.3	6.8	15.9	4.7	8.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.2	8.7	9.5	13.3	11.3	12.4	11.1	9.7	10.3	18.9	17.0	18.5
2	10.4	5.8	9.3	13.9	10.2	12.0	10.8	7.9	9.9	18.5	15.6	17.5
3	12.1	7.4	10.9	11.1	10.3	10.6	11.7	9.5	10.8	17.6	10.5	13.3
4	12.6	10.0	11.6	12.8	11.1	11.7	11.1	9.9	10.6	16.2	11.4	13.7
5	12.4	9.4	11.1	12.6	11.1	11.9	12.6	9.7	11.1	17.1	13.7	14.7
6	12.3	10.2	11.7	12.1	10.3	11.3	13.0	10.1	11.2	15.6	9.9	11.8
7	13.1	11.9	12.4	11.0	10.4	10.5	14.1	11.0	12.9	12.4	10.9	11.6
8	14.5	13.1	13.9	10.7	9.2	10.4	14.6	12.7	13.9	12.4	11.3	12.0
9	15.3	14.2	14.9	10.7	4.7	9.3	15.7	14.0	14.8	12.4	11.6	12.1
10	14.4	11.1	13.3	10.7	3.1	8.3	16.2	14.5	15.1	13.1	11.0	11.7
11	13.8	11.5	12.8	11.7	4.9	10.5	17.3	15.2	16.4	12.7	11.0	11.6
12	15.0	12.2	14.1	12.1	8.5	10.2	18.8	16.5	17.8	12.5	11.6	12.1
13	14.9	10.1	14.2	10.1	8.1	9.5	19.9	17.2	19.0	12.4	8.2	11.0
14	12.0	8.2	9.7	9.8	8.1	8.7	21.8	19.6	20.6	12.1	9.7	10.7
15	11.2	7.8	9.3	12.6	9.7	11.9	22.0	21.0	21.6	11.7	10.4	10.9
16	12.6	7.0	11.6	12.2	11.4	12.1	21.0	15.7	19.6	13.2	11.2	12.1
17	14.3	12.0	13.0	12.2	11.5	11.9	20.1	17.1	19.0	14.0	11.0	12.4
18	14.7	13.0	14.2	12.4	11.5	12.1	20.3	18.2	19.5	14.6	14.0	14.4
19	13.5	10.6	12.5	14.1	12.4	13.4	20.4	16.7	19.6	14.7	13.7	14.5
20	12.6	9.3	11.4	15.2	7.8	13.7	19.8	15.0	18.9	14.0	13.2	13.8
21	12.9	9.2	11.5	15.2	9.0	12.3	20.5	17.5	20.0	15.2	13.0	14.3
22	13.0	9.6	11.2	13.6	6.5	11.5	20.4	17.6	19.6	16.0	14.4	15.5
23	13.0	6.5	9.5	12.9	10.9	12.1	19.4	15.1	17.8	16.3	15.1	16.0
24	14.4	10.6	13.2	12.6	8.0	10.5	20.2	15.7	19.2	15.8	12.3	14.6
25	13.7	5.1	8.9	11.6	8.9	10.3	20.4	15.0	18.5	16.6	14.2	15.5
26	8.5	4.0	5.4	14.0	10.4	12.1	18.8	10.9	13.3	18.4	11.4	16.7
27	11.8	5.1	7.3	15.1	10.7	13.2	15.7	12.6	14.5	18.7	18.1	18.5
28	12.1	7.5	10.5	14.2	10.7	11.1	17.9	14.1	15.8	18.6	14.2	18.2
29	12.7	10.3	12.0	14.8	10.9	12.4	19.3	15.9	17.9	18.8	14.1	15.7
30	12.6	11.1	12.2	15.2	10.2	11.8	19.0	16.9	18.1	15.5	13.8	14.8
31	---	---	---	16.2	9.5	10.9	18.6	16.9	17.8	---	---	---
MONTH	15.3	4.0	11.4	16.2	3.1	11.3	22.0	7.9	16.3	18.9	8.2	14.0

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.2	6.9	7.4	8.0	7.7	7.8	8.2	7.8	8.0	7.6	6.7	7.1
2	8.0	7.2	7.6	7.9	7.7	7.8	8.1	7.9	8.0	7.2	6.8	7.0
3	7.5	7.0	7.2	8.0	7.8	7.9	7.9	7.7	7.8	8.4	6.8	7.7
4	8.8	7.1	7.7	8.0	7.8	7.9	7.8	7.6	7.7	8.4	8.2	8.3
5	7.6	6.9	7.1	7.9	7.6	7.7	7.8	7.5	7.7	8.3	8.2	8.3
6	7.1	6.7	6.9	7.8	7.6	7.7	7.6	7.2	7.4	8.4	8.2	8.3
7	7.8	7.0	7.2	8.1	7.6	7.9	7.5	7.2	7.4	8.3	8.1	8.3
8	7.3	6.9	7.1	8.2	7.6	8.0	7.8	7.4	7.6	8.4	8.2	8.3
9	7.5	7.1	7.3	8.2	7.3	7.7	7.8	7.6	7.7	8.2	7.6	8.0
10	7.9	7.2	7.5	7.4	7.1	7.3	7.7	7.3	7.5	7.9	7.5	7.7
11	8.7	7.4	7.9	7.5	7.2	7.3	7.6	7.2	7.3	8.0	7.7	7.9
12	8.3	7.4	8.0	7.8	7.4	7.6	7.7	7.3	7.5	8.0	7.8	7.9
13	8.6	7.4	8.0	8.1	7.6	7.8	7.6	7.4	7.5	7.9	7.8	7.9
14	8.8	7.3	8.1	8.1	7.7	7.9	7.7	7.4	7.5	8.1	7.8	8.0
15	8.8	8.1	8.5	7.8	7.3	7.6	7.7	7.4	7.6	8.3	7.8	8.1
16	8.8	7.8	8.4	8.3	7.6	7.9	8.0	7.5	7.7	8.3	8.0	8.2
17	8.7	7.9	8.3	8.0	7.6	7.8	---	---	---	8.4	8.2	8.3
18	8.5	7.8	8.2	8.5	7.7	7.9	---	---	---	8.4	8.3	8.4
19	8.2	7.4	7.8	8.0	7.6	7.8	8.7	7.5	8.1	8.4	8.2	8.3
20	8.5	7.1	7.7	8.0	7.5	7.7	8.1	7.6	7.9	8.3	7.8	8.2
21	8.6	7.3	7.9	7.9	7.7	7.7	8.3	7.8	8.1	8.1	7.5	7.9
22	8.4	7.7	7.9	7.8	7.6	7.7	8.2	7.5	7.9	8.2	8.0	8.1
23	7.8	7.5	7.6	7.9	7.6	7.8	7.8	7.6	7.7	8.2	8.1	8.1
24	7.8	7.4	7.6	8.0	7.8	7.9	8.5	7.7	8.0	8.5	8.0	8.3
25	8.0	7.3	7.7	8.0	7.7	7.9	7.9	7.6	7.7	8.5	8.1	8.2
26	8.0	7.7	7.8	8.0	7.7	7.9	7.8	7.3	7.7	8.3	8.0	8.2
27	7.8	7.6	7.7	8.0	7.8	7.9	7.5	7.1	7.3	8.2	8.0	8.1
28	8.1	7.6	7.8	8.3	7.9	8.0	7.5	7.0	7.3	8.4	8.2	8.3
29	7.9	7.7	7.8	8.2	7.9	8.0	7.5	7.3	7.4	8.4	8.3	8.4
30	8.0	7.8	7.9	8.0	7.6	7.8	---	---	---	8.4	8.2	8.3
31	7.9	7.7	7.8	---	---	---	7.3	6.8	7.0	8.2	8.2	8.2
MONTH	8.8	6.7	7.7	8.5	7.1	7.8	---	---	---	8.5	6.7	8.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.4	8.1	8.3	8.2	7.8	8.0	7.4	7.1	7.3	8.6	7.8	8.4
2	8.5	8.4	8.4	8.4	7.6	8.1	7.3	7.1	7.3	8.7	7.8	8.4
3	8.4	8.3	8.3	8.4	8.0	8.3	7.5	7.2	7.3	8.7	8.1	8.4
4	8.3	8.2	8.3	8.2	7.7	8.1	7.5	7.0	7.2	8.9	8.2	8.5
5	8.3	8.1	8.3	---	---	---	7.8	7.1	7.4	8.8	6.8	8.2
6	8.4	8.2	8.3	---	---	---	7.9	7.3	7.6	8.0	7.4	7.8
7	8.4	8.2	8.3	---	---	---	8.0	7.2	7.4	7.5	7.0	7.2
8	8.6	8.3	8.4	8.2	7.3	7.6	7.4	7.2	7.3	7.9	7.2	7.5
9	8.6	8.5	8.6	8.9	7.6	8.2	7.7	7.0	7.3	8.0	7.4	7.7
10	---	---	---	8.8	8.1	8.5	7.3	7.0	7.2	8.3	7.8	8.0
11	8.4	8.3	8.3	8.8	8.4	8.7	7.6	7.0	7.2	8.1	7.2	7.7
12	8.5	8.3	8.4	8.7	8.1	8.5	7.7	7.0	7.3	7.4	7.0	7.2
13	8.3	8.2	8.2	8.4	7.5	7.8	7.4	6.7	7.0	7.5	7.1	7.3
14	8.4	8.0	8.2	8.5	7.8	8.2	7.9	6.9	7.3	7.7	7.2	7.4
15	8.1	7.9	8.0	8.5	7.9	8.1	7.5	7.0	7.2	7.7	7.3	7.4
16	---	---	---	8.6	7.9	8.2	7.8	6.9	7.4	8.4	7.3	7.6
17	---	---	---	8.8	8.0	8.5	7.5	7.3	7.4	7.7	7.3	7.5
18	7.9	7.7	7.8	8.6	8.0	8.3	7.6	7.2	7.4	8.3	7.1	7.6
19	8.1	7.7	7.9	8.7	8.2	8.5	8.7	7.4	7.9	8.2	7.4	7.8
20	8.2	7.8	8.0	8.6	7.9	8.3	8.6	7.7	8.1	8.4	7.5	7.8
21	8.3	7.8	8.1	---	---	---	8.5	7.7	8.2	7.9	7.1	7.2
22	8.1	7.8	8.0	---	---	---	8.9	7.8	8.4	7.4	7.1	7.2
23	8.0	7.7	7.9	---	---	---	8.6	7.5	8.0	7.7	7.1	7.3
24	8.2	7.8	8.0	---	---	---	8.3	7.3	7.8	8.5	7.2	7.8
25	8.1	7.8	7.9	---	---	---	7.7	7.3	7.5	8.3	7.5	8.0
26	8.2	7.8	7.9	---	---	---	7.7	7.3	7.5	8.2	7.5	7.8
27	8.3	8.0	8.1	---	---	---	8.3	7.3	7.8	7.8	7.3	7.6
28	8.3	7.9	8.1	8.1	7.6	7.8	8.6	7.2	7.9	7.4	7.1	7.3
29	---	---	---	7.8	7.4	7.5	8.1	7.7	7.8	8.2	7.1	7.4
30	---	---	---	7.4	7.0	7.1	8.6	7.8	8.2	8.2	7.5	7.9
31	---	---	---	7.5	7.1	7.2	---	---	---	8.0	7.3	7.7
MONTH	---	---	---	---	---	---	8.9	6.7	7.6	8.9	6.8	7.7

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.8	7.5	7.7	7.9	6.9	7.1	8.5	8.0	8.3	8.4	7.4	7.8
2	8.0	7.3	7.6	7.6	6.9	7.2	8.6	8.2	8.4	8.6	8.1	8.2
3	8.2	7.2	7.7	8.1	7.2	7.6	8.6	8.1	8.3	8.7	8.0	8.3
4	8.4	7.9	8.1	8.1	7.3	7.6	8.7	7.9	8.4	8.5	8.2	8.4
5	8.5	7.2	7.9	7.9	7.1	7.4	9.0	8.2	8.5	8.7	8.1	8.4
6	8.2	7.2	7.8	8.5	7.2	7.8	8.7	8.3	8.5	8.5	8.1	8.3
7	8.2	7.3	7.7	8.7	7.8	8.3	8.7	7.3	8.3	8.6	8.1	8.3
8	8.4	7.6	8.0	8.5	8.0	8.3	8.6	7.2	8.0	8.5	8.2	8.4
9	8.5	7.6	8.0	9.1	8.1	8.6	8.6	7.2	8.0	8.6	8.2	8.4
10	8.9	7.7	8.3	8.9	8.3	8.7	8.5	7.4	8.0	8.7	7.8	8.3
11	8.6	7.5	8.1	9.0	7.6	8.5	8.4	7.4	8.1	8.6	7.7	8.4
12	8.1	6.9	7.5	8.5	7.7	8.2	8.3	7.4	7.9	8.8	8.3	8.5
13	7.6	6.9	7.3	8.2	7.8	8.0	8.4	7.6	8.1	8.7	8.4	8.5
14	7.8	7.2	7.4	8.4	7.6	8.0	8.6	7.5	8.2	8.5	8.3	8.4
15	7.7	7.2	7.5	8.8	8.0	8.4	8.3	7.8	8.1	8.3	8.2	8.3
16	8.5	7.4	7.8	8.8	8.0	8.4	8.7	7.8	8.2	8.2	8.0	8.1
17	8.4	7.6	7.9	8.7	7.5	8.1	8.7	8.2	8.5	8.4	8.0	8.1
18	8.8	7.3	8.0	8.4	7.0	7.8	8.5	7.6	8.2	8.5	8.0	8.3
19	8.4	7.8	8.1	8.1	7.0	7.6	8.4	7.8	8.1	8.6	8.0	8.3
20	8.4	7.2	8.1	7.8	7.4	7.5	8.4	7.2	7.9	8.6	8.2	8.4
21	8.4	7.2	7.6	8.2	7.3	7.7	8.9	7.5	8.1	8.5	7.9	8.3
22	8.4	7.0	7.8	8.3	7.6	8.0	8.9	8.2	8.6	8.6	7.9	8.4
23	8.2	7.5	7.9	8.5	7.6	8.1	8.8	7.8	8.4	8.6	7.8	8.2
24	8.4	7.6	8.0	8.3	7.6	8.0	8.0	7.1	7.5	8.3	8.0	8.2
25	8.8	7.5	8.2	8.1	7.6	7.8	7.8	7.1	7.3	8.3	8.1	8.2
26	8.6	8.2	8.4	8.0	7.3	7.7	8.2	7.2	7.7	8.2	7.9	8.1
27	8.7	7.6	8.1	7.8	7.1	7.5	8.3	7.3	7.6	8.5	8.0	8.3
28	8.6	7.1	7.7	8.3	7.4	7.8	8.2	7.0	7.6	8.4	7.6	8.2
29	8.6	7.1	7.6	8.3	7.7	7.9	7.9	7.1	7.3	8.0	7.7	7.8
30	8.2	6.9	7.4	7.9	7.4	7.7	8.1	7.2	7.6	7.9	7.7	7.8
31	---	---	---	8.3	7.6	7.9	8.1	7.6	7.9	---	---	---
MONTH	8.9	6.9	7.8	9.1	6.9	7.9	9.0	7.0	8.1	8.8	7.4	8.3

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.8	7.3	7.5	8.0	7.8	7.9	8.1	7.8	8.0	7.8	7.6	7.7
2	7.9	7.4	7.6	8.0	7.8	7.9	8.2	7.7	8.1	7.8	7.5	7.7
3	7.6	7.0	7.3	8.0	7.8	7.8	8.1	7.9	8.0	8.5	7.6	7.8
4	7.4	6.8	7.0	7.8	7.4	7.6	8.0	7.9	7.9	8.0	7.6	7.7
5	6.9	6.8	6.8	7.9	7.4	7.7	7.9	7.6	7.8	8.1	7.5	7.7
6	7.0	6.7	6.8	7.7	7.3	7.6	7.6	7.5	7.6	7.8	7.5	7.6
7	7.1	6.8	6.9	7.4	7.2	7.3	7.6	7.5	7.5	7.7	7.5	7.6
8	7.5	6.9	7.2	7.4	7.2	7.3	7.6	7.4	7.5	7.6	7.5	7.6
9	7.6	7.1	7.3	7.3	7.1	7.2	8.0	7.3	7.7	7.9	7.3	7.5
10	7.6	7.1	7.4	7.5	7.0	7.2	7.7	7.2	7.4	7.9	7.3	7.6
11	8.1	7.0	7.5	7.7	7.4	7.5	7.6	7.1	7.4	7.8	7.4	7.6
12	8.0	7.2	7.5	7.9	7.6	7.8	7.7	7.1	7.4	8.3	7.8	7.9
13	8.0	6.9	7.3	7.8	7.4	7.6	7.7	7.1	7.5	8.5	8.3	8.4
14	7.0	6.9	6.9	8.0	7.3	7.7	7.7	7.1	7.4	8.3	7.7	8.0
15	7.0	6.9	6.9	8.0	7.4	7.7	7.9	7.6	7.8	8.1	7.9	8.0
16	6.9	6.9	6.9	7.7	7.2	7.5	7.8	7.6	7.7	8.1	7.7	8.0
17	7.0	6.9	6.9	8.1	7.2	7.6	7.7	7.1	7.4	8.2	7.6	8.0
18	7.1	7.0	7.1	8.1	7.2	7.8	7.8	7.2	7.4	8.3	7.9	8.1
19	7.1	7.0	7.0	8.1	7.2	7.9	8.5	7.3	8.0	8.6	7.7	8.1
20	7.2	7.0	7.0	7.8	7.4	7.6	8.2	7.9	8.0	8.5	7.8	8.2
21	7.1	7.0	7.0	8.0	7.6	7.9	8.1	7.9	8.0	8.5	8.0	8.3
22	7.4	7.1	7.2	8.1	7.9	8.0	8.1	7.5	7.8	8.6	8.3	8.5
23	7.9	7.1	7.6	8.2	7.9	8.1	8.0	7.8	7.9	8.7	8.6	8.6
24	7.8	7.1	7.5	8.2	8.1	8.1	7.9	7.8	7.8	8.6	8.2	8.4
25	7.6	7.1	7.3	8.2	7.9	8.1	8.1	7.8	7.9	8.6	8.3	8.5
26	7.9	7.3	7.7	8.2	8.0	8.2	8.0	7.8	7.9	8.6	8.3	8.4
27	7.8	7.6	7.7	8.2	7.9	8.0	7.9	7.5	7.7	8.5	8.3	8.4
28	7.8	7.4	7.5	8.4	7.8	8.1	7.9	7.4	7.7	8.6	8.4	8.5
29	7.9	7.7	7.8	8.2	7.7	7.9	7.8	7.4	7.6	8.6	8.3	8.4
30	8.0	7.8	7.8	8.1	7.7	7.9	7.9	7.2	7.6	8.6	8.4	8.5
31	8.0	7.8	7.9	---	---	---	7.8	7.6	7.7	8.6	8.5	8.5
MONTH	8.1	6.7	7.3	8.4	7.0	7.8	8.5	7.1	7.7	8.7	7.3	8.1

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.6	8.5	8.5	7.9	7.5	7.7	7.5	7.1	7.3	7.8	6.8	7.3
2	8.6	8.2	8.4	7.9	7.1	7.5	7.4	7.1	7.3	7.1	6.7	6.9
3	8.5	8.1	8.3	7.4	7.0	7.1	7.4	7.0	7.2	6.9	6.6	6.7
4	8.5	8.0	8.4	7.1	6.9	7.0	7.1	6.9	7.0	6.7	6.6	6.7
5	8.5	8.4	8.5	7.4	6.9	7.2	8.0	6.9	7.4	6.7	6.6	6.6
6	8.5	8.3	8.4	7.4	7.3	7.3	8.0	6.9	7.6	7.9	6.6	7.0
7	8.3	7.9	8.1	7.4	7.2	7.3	7.3	6.7	6.9	7.5	6.9	7.2
8	8.5	7.7	8.1	7.5	7.1	7.3	7.1	6.9	7.0	7.4	6.8	7.1
9	8.2	7.6	7.9	7.3	7.2	7.3	7.1	6.9	6.9	7.5	6.6	7.1
10	8.2	7.4	7.7	8.0	7.2	7.4	6.9	6.8	6.9	7.1	6.7	6.8
11	8.2	8.1	8.2	7.7	7.2	7.4	7.2	6.8	6.9	7.0	6.6	6.8
12	8.1	7.9	8.1	7.6	7.2	7.3	7.5	6.7	6.9	7.3	6.6	6.8
13	8.1	7.9	8.0	7.6	7.1	7.5	7.0	6.7	6.8	7.5	6.7	7.2
14	8.0	7.3	7.6	8.0	7.5	7.7	6.8	6.7	6.8	7.6	6.7	7.1
15	7.8	7.3	7.5	8.0	7.2	7.5	6.9	6.7	6.8	7.4	6.8	7.1
16	7.5	7.3	7.4	8.3	7.2	7.8	7.5	6.8	7.1	8.0	6.7	7.2
17	7.6	7.3	7.4	8.2	6.9	7.4	7.5	6.9	7.3	7.7	7.0	7.4
18	7.7	7.4	7.5	8.4	6.9	7.7	7.5	7.3	7.5	7.6	7.0	7.3
19	7.6	7.3	7.5	8.5	7.4	8.2	7.9	7.2	7.4	7.2	6.9	7.0
20	7.7	7.2	7.4	8.4	7.7	8.1	7.6	7.0	7.1	7.1	6.8	6.9
21	7.9	7.3	7.5	---	---	---	7.8	6.9	7.2	7.2	6.7	6.9
22	7.9	7.6	7.8	7.9	7.3	7.6	7.8	6.8	7.3	7.3	6.5	7.0
23	7.7	7.3	7.5	---	---	---	7.9	6.9	7.4	7.6	6.6	7.1
24	8.0	7.3	7.5	---	---	---	7.8	6.8	7.0	7.4	6.6	6.8
25	7.9	7.2	7.5	---	---	---	7.7	6.8	7.4	7.1	6.5	6.6
26	7.9	7.2	7.6	---	---	---	7.7	7.3	7.5	7.8	6.5	6.9
27	8.1	7.3	7.8	---	---	---	7.6	6.7	7.0	6.9	6.5	6.6
28	8.1	7.2	7.8	8.2	7.5	7.7	8.0	6.7	7.0	6.9	6.5	6.6
29	---	---	---	8.2	7.3	7.6	8.0	7.6	7.8	6.8	6.7	6.7
30	---	---	---	7.5	7.0	7.3	8.0	6.8	7.5	6.8	6.7	6.8
31	---	---	---	7.5	7.3	7.4	---	---	---	8.1	6.7	7.4
MONTH	8.6	7.2	7.9	---	---	---	8.0	6.7	7.2	8.1	6.5	7.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.9	7.0	7.6	7.0	6.8	6.8	8.1	7.3	7.8	7.2	6.9	7.0
2	7.5	6.9	7.2	7.5	6.8	7.1	8.2	7.0	7.7	7.2	7.0	7.1
3	7.1	6.9	6.9	7.8	6.9	7.2	7.8	7.1	7.4	8.1	6.9	7.5
4	6.9	6.8	6.8	7.7	6.9	7.3	7.3	6.8	7.1	8.1	7.1	7.4
5	6.8	6.7	6.8	8.0	7.0	7.3	7.1	6.8	6.9	7.6	7.0	7.2
6	6.9	6.7	6.8	8.4	7.1	7.6	6.9	6.7	6.8	8.5	7.1	8.1
7	6.8	6.8	6.8	8.3	7.4	7.9	7.0	6.8	6.9	8.5	7.8	8.3
8	6.8	6.8	6.8	7.9	7.3	7.5	7.0	6.9	6.9	8.4	8.2	8.4
9	6.8	6.7	6.8	7.7	7.2	7.4	7.1	6.9	7.1	8.4	8.2	8.3
10	6.9	6.8	6.8	7.6	7.2	7.3	7.2	7.0	7.1	8.2	7.0	7.7
11	6.9	6.8	6.9	7.3	7.1	7.2	7.2	7.1	7.2	8.3	7.0	7.9
12	7.0	6.8	6.9	8.0	6.9	7.3	7.4	7.2	7.3	8.2	7.5	8.0
13	7.0	6.8	6.9	8.1	7.7	7.9	7.5	7.3	7.4	8.3	7.3	7.8
14	7.6	6.9	7.2	8.2	7.6	7.7	7.5	7.4	7.5	8.3	7.3	8.0
15	7.4	6.9	7.2	8.0	6.9	7.0	7.5	7.3	7.4	8.1	7.9	8.0
16	7.3	6.8	6.9	7.3	7.0	7.1	7.8	7.3	7.4	8.0	7.8	7.9
17	6.9	6.8	6.9	7.3	7.0	7.1	7.7	7.3	7.4	7.9	7.5	7.8
18	6.9	6.8	6.8	7.6	7.0	7.2	7.4	7.2	7.3	7.7	7.6	7.6
19	6.9	6.7	6.8	7.1	7.1	7.1	7.4	7.3	7.4	7.6	7.4	7.5
20	6.9	6.7	6.8	7.5	7.1	7.2	7.4	7.3	7.4	7.5	7.1	7.3
21	6.9	6.7	6.8	8.1	7.1	7.5	7.4	7.3	7.3	7.8	7.1	7.2
22	7.0	6.8	6.9	8.1	7.1	7.6	7.4	7.3	7.3	7.4	7.0	7.1
23	7.1	6.8	6.9	7.6	7.0	7.1	7.4	7.1	7.2	7.1	7.0	7.1
24	7.1	6.9	7.0	8.1	7.0	7.3	7.2	7.1	7.1	7.7	7.0	7.1
25	8.4	6.8	7.4	7.8	7.0	7.3	7.5	7.1	7.2	7.1	7.0	7.1
26	8.4	6.9	7.9	7.3	6.7	7.0	7.9	7.1	7.4	7.9	7.0	7.2
27	8.3	6.8	7.6	7.7	6.8	7.2	7.4	7.0	7.1	7.2	7.1	7.1
28	7.4	6.7	6.9	7.8	7.1	7.5	7.3	7.0	7.2	7.6	7.1	7.2
29	6.8	6.7	6.8	7.6	6.8	7.1	7.2	7.1	7.1	7.8	7.2	7.6
30	6.9	6.8	6.8	7.7	6.8	7.4	7.2	7.0	7.1	7.8	7.6	7.8
31	---	---	---	8.1	7.1	7.6	7.1	6.9	7.0	---	---	---
MONTH	8.4	6.7	7.0	8.4	6.7	7.3	8.2	6.7	7.2	8.5	6.9	7.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.4	20.9	21.1	16.4	15.9	16.2	10.2	9.2	9.6	3.8	2.3	3.0
2	22.3	20.7	21.3	16.2	15.6	15.9	9.5	8.7	9.0	3.3	2.7	3.0
3	22.5	20.7	21.5	16.6	15.3	15.9	8.7	7.4	8.1	3.5	2.4	2.8
4	23.6	20.6	21.6	17.1	15.3	16.2	7.4	6.1	6.7	2.9	2.1	2.6
5	24.3	20.7	22.6	16.5	15.8	16.2	6.9	5.8	6.3	3.6	1.0	2.4
6	24.8	22.7	23.6	16.4	15.3	15.9	6.6	5.7	6.1	3.5	2.3	2.9
7	24.6	22.1	23.0	16.1	14.8	15.4	7.3	5.7	6.4	4.1	2.8	3.5
8	22.2	18.9	20.6	17.9	15.4	16.2	8.2	6.2	7.0	5.0	3.6	4.0
9	19.2	17.3	18.2	17.6	16.4	16.9	7.6	6.7	7.2	4.6	4.2	4.4
10	17.7	16.6	17.2	17.8	17.0	17.4	7.8	7.2	7.5	4.4	3.5	3.9
11	19.3	16.6	17.5	17.0	15.9	16.4	8.2	7.2	7.6	4.7	2.8	4.0
12	18.2	15.3	17.0	15.9	15.0	15.4	9.0	7.6	8.5	5.6	4.4	4.9
13	20.4	16.6	17.9	16.0	14.3	15.2	8.5	7.8	8.1	5.9	4.8	5.3
14	20.3	16.5	18.0	15.5	14.8	15.2	10.7	8.0	9.5	6.7	5.4	5.9
15	21.0	17.3	18.7	14.9	13.6	14.4	10.5	9.5	10.0	9.7	5.4	7.2
16	19.9	17.9	18.8	13.7	12.7	13.3	10.4	9.7	10.0	8.6	6.3	7.5
17	19.2	18.6	18.9	14.1	13.3	13.8	---	---	---	8.4	7.7	8.0
18	20.1	19.0	19.5	13.6	12.7	13.1	11.6	10.0	10.5	8.8	8.1	8.3
19	20.5	19.2	19.7	12.7	11.9	12.2	10.2	8.9	9.5	9.7	8.4	8.9
20	21.2	18.6	19.7	11.9	10.9	11.5	9.2	7.6	8.6	11.0	9.6	10.2
21	22.1	18.8	20.1	11.0	10.2	10.7	8.1	6.6	7.3	9.7	8.4	8.8
22	21.5	19.1	19.8	10.2	9.1	9.7	7.9	6.2	7.2	9.0	7.6	8.1
23	20.0	19.4	19.6	9.7	8.7	9.0	7.2	5.8	6.4	7.7	7.0	7.4
24	20.2	18.6	19.3	8.9	8.3	8.7	6.5	4.9	5.5	7.6	6.6	7.1
25	19.8	18.5	19.2	9.2	8.0	8.7	5.3	4.2	4.9	7.2	6.5	6.9
26	19.3	18.7	18.9	9.9	8.8	9.6	4.4	3.4	3.9	6.5	5.7	6.1
27	19.0	18.5	18.8	10.1	9.3	9.7	4.1	3.1	3.5	6.6	5.6	6.1
28	19.7	18.4	18.9	12.1	9.6	10.3	4.2	3.5	3.7	8.0	5.6	6.3
29	19.1	17.6	18.4	10.8	9.6	10.1	4.3	3.3	3.7	7.7	6.4	7.0
30	17.6	16.8	17.4	10.1	9.3	9.9	4.1	2.8	3.8	8.2	7.1	7.6
31	16.9	16.4	16.6	---	---	---	3.7	3.0	3.2	8.7	8.0	8.3
MONTH	24.8	15.3	19.5	17.9	8.0	13.3	---	---	---	11.0	1.0	5.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.5	8.5	9.3	12.8	11.4	12.1	14.5	13.5	14.1	21.9	18.1	19.7
2	9.9	9.1	9.6	13.7	11.9	12.6	13.8	12.4	13.2	23.1	19.9	20.9
3	9.2	8.2	8.7	13.6	12.6	13.0	13.6	13.0	13.2	24.5	20.3	21.8
4	8.4	7.8	8.2	12.8	12.3	12.5	14.0	13.2	13.6	25.5	21.5	22.7
5	8.8	8.0	8.3	---	---	---	14.1	12.9	13.5	26.2	19.7	22.9
6	9.8	7.7	8.5	---	---	---	15.4	13.4	14.3	22.6	20.5	21.6
7	9.4	7.7	8.5	---	---	---	18.4	15.1	16.1	20.5	18.7	19.4
8	11.2	8.3	9.2	9.6	8.0	8.6	18.9	16.6	18.1	21.0	19.2	19.9
9	10.9	9.0	10.1	9.4	8.4	9.0	20.8	14.9	17.8	22.0	19.4	20.5
10	---	---	---	9.2	8.3	8.8	21.5	18.5	19.4	23.2	20.6	21.7
11	10.9	10.1	10.5	10.8	8.9	9.5	21.1	18.6	20.0	23.8	21.0	22.1
12	10.1	9.4	9.7	11.2	9.9	10.8	21.7	19.6	20.7	22.7	20.7	21.7
13	9.9	9.5	9.7	12.9	10.7	11.9	21.9	20.7	21.2	22.9	21.0	21.9
14	10.8	9.7	10.1	13.4	12.0	12.7	22.6	20.6	21.4	22.4	21.1	21.9
15	11.9	9.8	10.8	13.7	12.9	13.2	21.4	20.0	20.5	22.1	21.0	21.5
16	---	---	---	14.3	13.0	13.6	20.0	17.8	18.8	22.5	20.7	21.3
17	---	---	---	15.6	13.7	14.5	18.7	16.4	17.7	21.0	20.0	20.4
18	12.0	10.5	11.1	15.0	13.1	13.8	16.4	14.8	15.6	22.8	19.7	20.6
19	10.9	9.3	10.2	13.3	12.3	12.8	17.4	14.1	15.5	23.4	20.4	21.9
20	11.3	9.4	10.3	12.4	11.6	12.0	16.6	15.2	15.9	24.7	22.0	23.0
21	13.5	10.9	11.9	---	---	---	17.2	15.4	16.5	23.6	22.8	23.2
22	12.2	10.1	10.9	---	---	---	19.9	16.8	17.5	24.6	23.1	23.8
23	10.6	9.3	10.0	---	---	---	20.0	16.8	18.1	24.3	23.3	23.7
24	10.9	9.7	10.4	---	---	---	20.1	17.5	18.8	27.5	23.0	24.3
25	12.1	10.3	11.1	---	---	---	19.7	17.5	18.5	25.8	24.6	25.2
26	13.6	12.0	12.7	---	---	---	17.5	16.9	17.2	25.7	24.6	25.1
27	13.6	12.0	12.8	---	---	---	19.1	15.9	17.1	25.4	24.4	24.8
28	12.9	11.5	12.4	11.7	10.6	11.3	19.3	16.1	17.5	24.5	23.9	24.1
29	---	---	---	12.2	11.1	11.5	18.4	17.4	17.9	23.9	23.2	23.5
30	---	---	---	14.3	12.2	13.3	20.4	17.4	18.5	25.0	23.1	23.9
31	---	---	---	15.7	13.8	14.5	---	---	---	24.2	23.2	23.6
MONTH	---	---	---	---	---	---	22.6	12.4	17.3	27.5	18.1	22.3

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.9	22.9	23.5	29.0	26.2	27.1	26.6	25.2	26.0	27.3	26.3	26.8
2	25.1	23.4	24.0	27.7	26.2	26.9	27.1	25.2	26.2	27.9	26.5	26.9
3	25.5	23.4	24.5	27.2	25.4	26.6	27.3	25.6	26.5	27.2	26.3	26.7
4	26.7	24.7	25.6	28.4	26.4	27.2	28.3	26.0	26.9	26.7	25.8	26.4
5	28.0	25.1	26.0	27.6	26.6	27.1	29.0	26.5	27.7	27.3	25.6	26.4
6	27.9	25.7	26.8	28.3	26.2	27.0	29.8	27.5	28.7	27.0	25.4	26.2
7	27.6	26.2	26.9	27.4	26.0	26.8	31.3	28.1	29.3	28.4	25.4	26.4
8	27.0	26.1	26.4	26.4	25.8	26.2	31.7	27.8	29.3	27.2	25.9	26.5
9	28.3	25.5	26.2	28.9	25.7	26.9	31.1	28.5	29.2	27.1	26.3	26.6
10	29.0	26.3	27.0	29.7	26.9	28.3	31.0	28.7	29.8	28.7	26.5	27.3
11	28.1	26.5	27.4	30.5	27.7	28.6	30.5	29.0	29.8	27.9	27.2	27.5
12	28.5	25.6	27.0	29.3	27.6	28.2	30.8	28.4	29.4	27.5	26.4	26.9
13	27.8	26.0	26.9	28.0	26.5	27.2	30.9	28.6	29.5	26.9	25.8	26.1
14	26.6	26.2	26.3	27.5	25.9	26.6	29.0	28.1	28.5	26.1	25.2	25.6
15	26.2	25.9	26.1	29.0	25.9	27.0	29.2	27.4	28.2	25.3	23.6	24.3
16	28.7	25.0	26.1	29.5	26.0	27.0	29.6	27.5	28.2	23.6	22.6	23.1
17	26.5	25.9	26.1	28.5	25.6	26.5	31.4	27.2	28.6	23.4	22.0	22.4
18	27.4	25.5	26.4	28.8	25.9	26.7	30.4	28.4	29.1	23.8	22.4	23.0
19	27.6	25.8	26.7	27.9	26.1	26.9	29.4	27.5	28.4	23.8	22.7	23.3
20	28.5	26.8	27.4	27.3	26.3	26.8	28.6	27.2	27.8	24.6	23.0	23.9
21	28.8	27.0	27.9	27.8	25.6	26.4	29.0	26.7	27.6	24.7	23.8	24.3
22	29.1	26.8	28.0	27.6	25.5	26.6	28.9	27.4	27.9	26.9	24.4	25.0
23	28.2	27.2	27.8	27.8	26.2	27.0	31.4	27.1	28.5	26.5	24.5	25.2
24	27.7	26.8	27.3	27.9	26.8	27.3	28.5	27.0	27.6	26.3	25.3	25.9
25	28.2	26.3	27.1	28.7	27.1	27.8	27.4	26.0	26.9	25.8	24.5	25.2
26	28.4	26.8	27.4	28.2	27.5	27.9	27.8	25.8	26.8	24.5	22.9	23.4
27	31.2	26.9	28.0	27.5	26.5	27.0	28.5	26.4	27.0	23.3	21.5	22.4
28	30.1	27.1	28.1	26.5	26.0	26.3	28.4	26.7	27.3	23.1	21.4	22.2
29	30.5	27.3	28.3	26.7	25.5	26.1	27.6	27.0	27.3	22.0	21.1	21.6
30	30.1	26.4	28.1	26.2	25.5	25.8	27.4	26.5	27.2	21.2	20.2	20.6
31	---	---	---	26.8	24.9	25.8	27.9	26.1	27.2	---	---	---
MONTH	31.2	22.9	26.7	30.5	24.9	27.0	31.7	25.2	28.0	28.7	20.2	24.9

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.6	20.9	21.2	16.5	16.0	16.2	10.1	9.2	9.6	3.8	2.8	3.1
2	22.0	20.7	21.1	16.1	15.6	15.9	10.1	8.7	9.1	3.4	2.8	3.1
3	21.7	21.0	21.5	16.1	15.4	15.7	8.7	7.4	8.1	4.5	2.3	3.0
4	21.8	20.8	21.4	16.2	15.8	16.0	7.4	6.7	7.0	4.3	3.5	4.0
5	21.8	21.2	21.6	16.4	15.8	16.2	7.8	7.1	7.3	4.3	3.8	4.1
6	21.8	21.6	21.7	16.5	15.7	16.0	7.6	7.2	7.4	4.4	3.5	4.2
7	22.0	21.6	21.7	16.5	16.3	16.4	7.8	7.3	7.6	4.4	4.2	4.3
8	22.0	19.1	20.7	16.4	16.2	16.3	8.2	7.4	7.9	4.5	4.1	4.3
9	19.4	17.9	18.8	16.6	16.4	16.5	8.2	6.8	7.7	4.5	4.2	4.4
10	18.5	17.3	17.7	17.6	16.6	17.1	8.4	7.7	8.0	4.3	3.5	4.0
11	18.4	16.5	17.0	17.1	15.9	16.4	8.3	7.8	8.1	4.0	3.5	3.7
12	17.6	16.8	17.1	16.2	15.3	15.6	8.9	7.8	8.4	4.8	3.5	3.8
13	18.1	17.2	17.6	16.4	15.7	16.1	8.7	7.9	8.2	5.9	4.8	5.1
14	18.8	18.1	18.5	16.3	15.0	15.8	10.0	8.1	9.1	5.4	4.7	5.0
15	18.7	18.2	18.5	15.0	14.3	14.6	10.2	9.5	9.9	5.6	5.1	5.3
16	18.5	18.4	18.4	15.6	14.6	15.1	10.3	9.6	9.8	5.5	5.3	5.4
17	18.5	18.3	18.4	15.7	13.9	15.0	11.9	10.2	11.1	5.6	5.2	5.4
18	18.7	18.3	18.4	15.3	12.8	13.5	10.7	10.0	10.2	5.9	5.4	5.6
19	18.9	18.3	18.5	14.8	11.9	12.5	10.3	9.3	9.8	9.3	5.6	6.9
20	19.5	18.6	19.0	13.0	11.5	12.0	9.3	7.7	8.6	10.3	8.4	9.2
21	19.6	18.7	19.0	12.4	10.2	11.0	8.1	6.9	7.3	9.6	8.3	8.7
22	20.2	18.7	19.0	10.2	9.1	9.7	8.9	7.1	8.1	8.4	7.6	8.1
23	19.9	19.3	19.5	9.2	8.7	9.0	7.2	5.7	6.4	7.7	7.2	7.4
24	19.3	18.6	18.9	8.9	8.4	8.6	6.8	4.9	5.8	7.7	6.8	7.1
25	19.1	18.5	18.8	9.2	8.6	8.8	6.0	4.5	5.1	7.2	6.5	6.9
26	19.1	18.6	18.9	9.7	9.2	9.4	4.9	4.0	4.6	6.5	5.6	6.0
27	19.0	18.5	18.8	10.0	9.4	9.7	6.3	4.6	5.4	6.7	5.8	6.3
28	19.0	18.5	18.8	10.5	9.6	9.8	6.3	3.8	4.8	6.7	5.6	6.1
29	19.0	18.0	18.4	10.3	9.9	10.1	5.0	3.3	4.0	6.8	5.8	6.6
30	18.0	16.8	17.4	10.2	9.7	10.0	5.4	3.7	4.6	8.2	6.5	7.4
31	16.9	16.4	16.7	---	---	---	3.8	3.0	3.3	8.6	7.9	8.3
MONTH	22.0	16.4	19.1	17.6	8.4	13.5	11.9	3.0	7.5	10.3	2.3	5.6

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.0	8.4	8.6	12.3	12.0	12.2	13.7	12.6	13.0	19.4	17.6	18.6
2	9.0	8.6	8.7	12.9	12.3	12.4	13.7	12.4	13.0	18.9	17.8	18.3
3	8.9	8.3	8.6	12.6	12.1	12.3	13.4	12.7	13.0	18.6	17.6	18.0
4	8.7	7.9	8.2	12.5	12.1	12.2	13.0	12.8	12.9	18.2	17.2	17.5
5	8.7	8.0	8.4	12.3	11.5	12.0	14.3	13.0	13.6	17.8	17.3	17.4
6	8.6	8.0	8.5	11.5	9.1	10.2	15.2	13.4	14.0	21.9	17.4	19.0
7	8.8	8.1	8.5	9.1	8.1	8.6	15.1	13.3	14.1	19.7	18.5	19.1
8	8.9	8.6	8.8	9.1	8.1	8.7	14.4	13.6	14.0	19.9	18.6	19.0
9	10.5	8.6	9.0	9.6	9.1	9.4	15.0	13.6	13.9	19.9	18.7	19.3
10	11.1	9.1	9.8	9.6	8.3	9.2	14.6	13.4	13.6	19.6	18.7	19.1
11	10.9	10.1	10.5	9.8	9.2	9.5	18.8	14.4	16.3	19.7	18.9	19.2
12	10.1	9.4	9.7	9.8	9.4	9.6	20.2	14.8	17.0	22.2	19.0	19.8
13	9.9	9.3	9.6	12.8	9.8	11.8	18.1	14.7	15.6	22.4	19.7	21.2
14	9.6	9.2	9.4	12.9	12.2	12.5	17.2	15.2	15.8	22.3	20.8	21.6
15	10.5	9.4	9.6	13.0	12.4	12.7	17.3	15.9	16.5	21.9	21.2	21.6
16	11.2	9.4	9.9	13.9	12.7	13.2	19.0	15.7	17.3	21.5	20.8	21.1
17	12.1	10.7	11.4	13.8	12.1	12.9	18.3	16.4	17.5	21.1	20.0	20.5
18	12.0	10.5	11.1	14.3	12.4	13.5	16.4	15.1	15.6	20.1	19.7	19.8
19	10.8	10.2	10.5	13.5	12.4	13.0	15.5	14.5	15.0	20.9	20.1	20.4
20	10.8	10.0	10.4	12.5	11.6	12.0	15.7	14.9	15.1	21.9	20.4	20.8
21	12.4	10.0	10.7	---	---	---	17.0	15.1	15.7	23.4	20.6	21.7
22	12.2	10.1	10.9	---	---	---	17.5	15.7	16.5	24.5	21.4	23.1
23	10.1	9.3	9.5	---	---	---	17.4	15.8	16.7	24.2	22.5	23.5
24	10.8	9.5	9.9	---	---	---	19.1	15.7	16.7	23.5	22.0	22.8
25	11.9	9.8	10.7	---	---	---	19.0	16.1	18.0	24.3	22.2	22.8
26	13.0	11.1	11.9	---	---	---	17.8	16.9	17.2	24.7	22.6	23.9
27	13.1	12.1	12.5	---	---	---	17.2	16.7	17.1	24.4	22.9	23.5
28	12.8	12.1	12.4	11.7	10.6	11.3	18.0	16.4	17.0	23.8	22.6	23.0
29	---	---	---	12.2	11.1	11.5	18.4	17.3	17.8	23.2	22.8	23.0
30	---	---	---	13.0	12.2	12.4	18.3	16.8	17.5	23.3	22.9	23.0
31	---	---	---	12.8	12.2	12.5	---	---	---	24.1	22.9	23.5
MONTH	13.1	7.9	9.9	---	---	---	20.2	12.4	15.6	24.7	17.2	20.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	23.9	22.8	23.4	27.1	26.0	26.4	26.4	25.7	26.0	27.1	27.0	27.0
2	24.4	23.4	23.6	27.6	26.4	27.0	26.6	25.6	26.2	27.0	26.8	26.9
3	23.7	23.3	23.4	27.2	26.1	26.6	26.8	26.2	26.6	27.0	26.1	26.6
4	24.1	23.4	23.6	27.4	26.2	26.8	26.6	26.4	26.5	26.8	26.2	26.6
5	24.5	23.4	23.8	27.3	26.5	26.8	26.7	26.1	26.4	26.6	26.3	26.5
6	24.6	23.7	24.1	27.7	26.4	26.9	27.4	26.2	26.6	27.1	25.4	26.3
7	24.9	24.0	24.4	27.0	26.1	26.5	26.7	26.1	26.4	26.6	25.5	26.0
8	24.9	24.6	24.7	26.8	26.0	26.5	27.1	26.1	26.4	27.0	25.9	26.4
9	24.9	24.6	24.7	26.0	25.9	26.0	26.7	25.9	26.2	26.9	26.1	26.5
10	25.6	24.6	25.0	26.3	25.8	26.0	26.9	26.0	26.3	26.6	26.3	26.5
11	25.4	24.6	24.9	26.4	25.9	26.1	26.7	26.1	26.4	27.6	26.4	27.1
12	24.9	24.3	24.6	28.0	26.2	26.9	26.9	26.3	26.5	27.5	26.7	27.1
13	26.2	24.4	24.8	27.9	26.6	27.2	26.8	26.4	26.6	27.2	25.7	26.4
14	26.6	25.4	26.3	27.2	25.8	26.1	27.1	26.6	26.8	26.5	25.2	25.8
15	26.2	25.8	26.0	27.2	26.3	26.4	27.6	27.0	27.2	25.2	23.5	24.3
16	25.8	25.4	25.6	26.4	26.2	26.3	27.9	27.2	27.6	23.6	22.7	23.0
17	25.5	25.4	25.5	26.4	26.1	26.2	27.6	27.1	27.3	23.3	22.0	22.6
18	25.8	25.5	25.6	26.3	26.1	26.2	27.7	27.0	27.2	23.4	23.0	23.2
19	26.0	25.5	25.7	26.2	26.0	26.1	27.9	27.0	27.3	23.4	23.1	23.2
20	26.2	25.5	25.7	26.3	26.1	26.2	28.0	27.1	27.3	23.8	23.3	23.4
21	26.3	25.2	25.6	27.5	25.6	26.3	27.6	27.0	27.3	24.0	23.4	23.6
22	26.5	25.0	25.7	27.2	25.5	26.6	27.8	27.2	27.5	23.8	23.4	23.5
23	27.0	25.4	26.2	26.7	26.4	26.5	27.8	27.3	27.6	23.7	23.4	23.5
24	25.8	25.0	25.3	27.8	26.3	26.9	27.7	27.0	27.2	25.6	23.5	24.1
25	27.7	25.2	26.2	28.5	26.7	27.5	28.1	27.1	27.5	24.5	23.5	23.7
26	28.1	26.4	27.0	27.7	26.6	27.1	28.1	26.0	26.9	24.0	23.4	23.7
27	28.0	26.1	27.1	27.1	26.6	26.8	28.0	27.2	27.5	23.7	23.6	23.6
28	27.1	25.9	26.6	26.7	26.0	26.3	27.3	26.9	27.0	23.7	22.8	23.6
29	27.1	26.3	26.7	26.5	26.1	26.3	27.3	26.9	27.1	23.5	21.3	22.1
30	27.0	26.1	26.6	26.6	25.8	26.1	27.2	27.1	27.1	21.3	20.3	20.7
31	---	---	---	26.8	25.2	25.8	27.2	27.0	27.1	---	---	---
MONTH	28.1	22.8	25.3	28.5	25.2	26.5	28.1	25.6	26.9	27.6	20.3	24.8

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.6	7.8	9.4	8.5	8.9	11.9	10.2	10.9	13.9	12.7	13.2
2	9.5	7.6	8.3	9.3	8.7	9.0	11.1	10.1	10.7	13.8	13.3	13.5
3	8.8	7.6	8.1	9.4	8.8	9.1	10.2	10.0	10.1	---	---	---
4	12.9	7.0	8.9	9.8	8.9	9.3	11.1	10.1	10.6	---	---	---
5	9.7	6.6	7.7	9.6	8.4	8.8	11.6	10.8	11.1	---	---	---
6	8.1	6.5	7.2	9.4	8.2	8.7	11.2	10.7	11.0	---	---	---
7	9.2	7.2	7.9	10.5	8.4	9.6	11.3	10.7	11.0	---	---	---
8	7.9	6.6	7.2	10.6	8.4	9.8	11.9	11.0	11.4	---	---	---
9	9.0	7.4	8.2	10.5	7.4	9.0	11.9	11.3	11.6	---	---	---
10	10.2	8.1	9.0	8.3	6.0	7.5	11.4	10.7	11.1	---	---	---
11	13.1	8.8	10.4	8.7	7.7	8.2	11.5	10.6	10.9	---	---	---
12	11.6	9.3	10.8	9.7	8.4	8.9	11.5	10.7	11.0	---	---	---
13	12.6	9.7	11.0	10.6	9.0	9.7	11.2	10.6	10.9	---	---	---
14	13.7	9.7	11.5	10.6	9.0	9.7	11.4	10.6	11.0	---	---	---
15	13.2	11.0	11.8	9.6	8.3	9.1	11.6	10.6	11.1	---	---	---
16	13.4	9.9	11.6	11.2	8.9	9.8	13.0	10.8	11.4	---	---	---
17	12.1	10.0	11.0	10.0	7.9	8.7	---	---	---	---	---	---
18	11.2	9.8	10.4	12.0	8.1	9.0	14.2	9.4	10.5	---	---	---
19	10.3	8.4	9.3	9.3	8.4	8.8	13.9	10.5	11.8	---	---	---
20	---	---	---	10.1	7.9	8.8	11.5	10.2	10.7	---	---	---
21	---	---	---	10.0	9.1	9.4	13.0	10.5	11.5	---	---	---
22	---	---	---	10.2	9.1	9.6	12.5	10.9	11.7	---	---	---
23	---	---	---	10.6	9.5	10.1	11.8	10.5	11.1	---	---	---
24	---	---	---	11.2	10.0	10.5	13.8	11.4	12.4	---	---	---
25	---	---	---	10.9	10.2	10.5	12.8	11.7	12.0	---	---	---
26	8.3	7.5	7.9	10.7	10.1	10.3	12.9	11.8	12.3	---	---	---
27	7.9	7.5	7.7	10.9	10.1	10.4	12.9	12.2	12.5	---	---	---
28	9.0	7.4	8.1	13.0	10.0	10.8	12.8	12.3	12.5	---	---	---
29	8.5	7.8	8.2	12.0	10.5	11.1	12.9	12.4	12.6	---	---	---
30	9.0	8.2	8.5	10.8	9.4	10.0	13.0	12.4	12.7	---	---	---
31	9.0	8.3	8.6	---	---	---	14.1	12.7	13.0	---	---	---
MONTH	---	---	---	13.0	6.0	9.4	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	12.2	10.8	11.5	9.8	9.1	9.4	11.2	9.0	10.4
2	---	---	---	12.9	10.1	11.8	9.7	8.9	9.3	12.7	9.2	10.9
3	---	---	---	12.9	11.8	12.3	10.2	9.4	9.8	12.4	10.2	11.1
4	---	---	---	12.3	10.9	11.7	10.1	9.0	9.6	12.8	9.7	11.0
5	---	---	---	---	---	---	10.8	9.6	10.2	11.9	4.0	9.7
6	---	---	---	---	---	---	11.0	9.6	10.4	8.9	7.8	8.3
7	---	---	---	---	---	---	10.9	9.3	9.7	8.2	6.7	7.3
8	---	---	---	14.4	10.9	12.0	9.8	8.0	9.3	8.8	6.7	7.6
9	13.1	12.0	12.7	13.3	11.3	12.3	9.9	6.1	8.5	8.6	7.0	7.7
10	---	---	---	13.0	10.9	11.9	9.5	8.1	8.7	9.4	7.3	8.3
11	11.5	11.1	11.3	13.6	11.9	12.6	9.2	8.1	8.6	8.5	7.1	8.0
12	11.9	10.9	11.4	12.9	11.1	12.1	9.1	8.0	8.6	7.5	6.0	7.1
13	11.3	10.9	11.1	11.9	8.3	9.3	8.5	7.2	7.8	8.0	6.5	7.3
14	11.9	10.5	11.0	11.4	9.2	10.1	9.7	7.0	8.3	8.2	7.2	7.7
15	11.1	10.2	10.6	11.2	9.1	9.9	8.9	7.8	8.3	8.3	7.2	7.8
16	---	---	---	11.5	9.0	10.0	9.3	5.8	8.0	10.5	7.4	8.3
17	---	---	---	13.1	9.4	11.0	8.6	7.9	8.2	8.2	7.3	7.8
18	10.8	9.7	10.3	11.3	9.3	10.0	8.9	7.7	8.4	9.8	6.9	8.2
19	11.9	10.5	11.1	11.2	9.4	10.2	12.4	8.5	9.7	9.3	7.4	8.4
20	12.4	10.7	11.7	10.0	7.8	9.0	11.6	9.1	10.2	10.1	7.5	8.4
21	12.3	10.5	11.4	---	---	---	11.1	9.1	10.1	8.3	6.5	7.0
22	11.6	10.8	11.0	---	---	---	11.9	8.9	10.0	7.9	6.8	7.3
23	12.0	10.6	11.3	---	---	---	10.7	8.6	9.2	8.1	6.4	7.2
24	12.6	11.4	12.0	---	---	---	9.6	7.4	8.7	12.1	6.7	8.8
25	12.2	11.2	11.8	---	---	---	8.3	7.0	7.6	9.8	7.6	8.7
26	12.0	10.9	11.4	---	---	---	8.3	6.7	7.7	8.7	7.2	7.9
27	12.7	11.2	11.8	---	---	---	10.1	7.8	8.8	7.8	6.6	7.3
28	12.3	11.0	11.6	11.3	10.2	10.7	11.1	6.9	9.1	7.0	5.7	6.4
29	---	---	---	10.8	10.1	10.3	9.4	8.7	8.9	9.1	6.0	7.0
30	---	---	---	10.1	9.0	9.4	11.1	9.0	9.7	9.4	7.3	8.4
31	---	---	---	9.8	9.2	9.5	---	---	---	8.7	6.5	7.7
MONTH	---	---	---	---	---	---	12.4	5.8	9.0	12.8	4.0	8.2

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.1	6.9	7.6	7.4	2.1	3.9	9.4	7.8	8.6	9.5	4.1	6.4
2	8.8	6.8	7.5	6.3	2.6	4.5	9.2	7.6	8.5	10.5	7.0	8.0
3	9.0	6.6	7.8	10.7	4.9	7.4	9.5	7.2	8.1	11.4	6.6	8.5
4	9.6	7.7	8.7	9.0	5.3	7.3	11.2	7.1	8.7	10.4	7.8	8.8
5	11.0	6.5	8.4	8.0	4.3	6.0	12.8	7.4	9.6	11.8	7.3	9.0
6	8.8	5.7	7.5	10.9	4.2	6.8	10.5	6.2	8.5	9.7	7.5	8.4
7	8.9	5.8	7.4	11.1	6.6	8.6	9.2	4.4	6.8	11.2	6.8	8.1
8	10.3	6.4	7.8	9.3	7.2	8.3	9.4	4.1	6.7	9.7	7.2	8.2
9	10.5	7.1	8.5	13.0	7.6	9.5	9.2	4.7	6.8	9.3	6.6	7.9
10	14.2	7.3	9.7	10.9	5.4	9.6	9.2	5.1	6.9	10.0	4.3	6.7
11	10.4	6.4	8.4	10.8	4.8	8.3	8.1	4.9	7.0	8.5	3.2	7.3
12	8.4	3.4	6.0	8.2	5.6	7.0	---	---	---	10.0	7.1	8.2
13	7.0	3.6	5.7	6.6	5.0	5.7	---	---	---	9.3	7.6	8.3
14	7.4	5.3	6.2	8.2	5.3	6.6	---	---	---	8.8	7.1	8.1
15	7.2	5.3	6.3	10.8	6.9	8.3	---	---	---	7.6	6.6	7.1
16	9.8	6.1	7.6	10.8	7.3	8.9	12.0	7.3	8.8	7.7	6.8	7.2
17	9.3	6.7	7.5	9.8	5.8	7.8	11.2	8.0	9.5	9.4	7.2	8.0
18	10.5	6.7	8.1	9.3	3.3	6.6	9.9	5.3	7.9	10.9	7.4	9.1
19	11.4	7.5	9.2	7.6	3.7	5.7	8.9	5.9	7.4	11.8	7.0	9.4
20	10.8	8.1	9.6	6.2	4.9	5.5	9.0	1.5	6.5	10.6	7.9	9.1
21	10.3	7.7	8.7	7.6	4.8	5.9	12.0	5.6	7.9	10.2	7.8	8.9
22	10.3	6.2	7.9	8.0	5.8	6.7	11.2	8.0	9.3	12.0	6.4	9.6
23	8.1	6.1	7.2	8.9	5.7	7.1	11.2	6.2	9.3	11.5	6.3	8.2
24	8.9	6.6	7.6	7.5	5.8	6.6	8.6	5.1	7.3	9.0	7.3	8.1
25	9.8	6.9	8.1	7.2	5.2	6.1	8.2	6.4	7.1	7.8	6.7	7.3
26	9.3	7.4	8.2	7.1	4.9	6.2	8.8	5.4	7.2	7.7	6.2	6.9
27	11.1	7.1	8.4	7.0	3.8	5.5	10.2	6.5	7.7	10.2	6.3	8.3
28	10.6	6.6	8.2	9.1	5.5	6.6	9.0	3.8	6.7	8.9	5.3	7.9
29	10.6	4.2	7.4	8.7	5.8	7.0	7.5	4.0	5.5	6.8	5.6	6.1
30	8.3	2.1	5.4	7.8	5.2	6.4	8.6	5.1	6.2	6.8	5.9	6.4
31	---	---	---	9.4	6.4	7.8	7.8	5.1	6.4	---	---	---
MONTH	14.2	2.1	7.8	13.0	2.1	6.9	---	---	---	12.0	3.2	8.0

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.9	7.7	8.5	9.2	8.5	8.8	10.6	9.0	10.0	---	---	---
2	10.1	8.4	8.9	9.2	8.5	8.9	11.1	8.2	10.5	---	---	---
3	9.3	4.1	7.0	9.1	8.3	8.7	10.5	10.1	10.3	---	---	---
4	8.4	3.1	5.1	8.6	7.0	7.7	10.8	10.0	10.4	---	---	---
5	4.9	1.8	3.2	9.0	7.0	8.4	10.6	9.5	10.1	---	---	---
6	4.3	1.4	2.3	8.5	6.3	7.9	10.0	9.2	9.6	---	---	---
7	5.9	1.6	2.5	7.0	6.1	6.6	9.9	8.9	9.3	---	---	---
8	8.0	2.1	7.0	7.3	6.2	6.8	9.9	8.5	9.1	---	---	---
9	9.0	6.4	8.1	7.1	5.4	6.1	11.5	8.2	10.4	---	---	---
10	10.0	5.8	8.5	8.1	3.7	6.0	10.7	7.0	9.1	---	---	---
11	---	---	---	8.9	7.3	8.1	10.5	7.3	9.0	---	---	---
12	---	---	---	9.5	7.4	8.8	11.0	8.0	9.3	11.5	9.0	9.8
13	---	---	---	8.9	7.0	8.0	10.9	6.7	9.9	11.6	10.5	11.2
14	---	---	---	9.4	6.7	8.1	10.8	6.9	9.0	10.6	7.8	9.3
15	---	---	---	9.4	7.0	8.5	11.4	8.9	10.8	10.0	9.3	9.7
16	---	---	---	8.0	4.5	6.8	11.1	10.4	10.7	10.3	7.9	9.6
17	---	---	---	9.2	2.5	6.3	10.9	7.3	9.3	10.1	7.3	9.2
18	---	---	---	9.4	2.2	7.3	10.7	8.2	8.9	10.9	9.0	9.9
19	---	---	---	9.7	2.4	8.8	---	---	---	11.4	7.6	9.7
20	---	---	---	9.2	6.1	8.1	---	---	---	10.3	7.8	9.1
21	---	---	---	10.0	7.3	9.3	---	---	---	9.6	8.4	8.9
22	---	---	---	10.4	9.4	9.9	---	---	---	10.1	8.9	9.6
23	---	---	---	11.2	9.5	10.3	---	---	---	10.1	9.3	9.8
24	---	---	---	11.6	10.2	10.8	---	---	---	9.4	7.7	9.0
25	---	---	---	11.1	10.3	10.8	---	---	---	10.1	8.5	9.4
26	7.8	5.5	7.3	10.9	9.8	10.7	---	---	---	9.8	8.7	9.2
27	7.8	7.2	7.5	11.1	9.7	10.3	---	---	---	10.0	8.6	9.3
28	8.0	6.2	6.9	12.0	8.4	10.6	---	---	---	10.1	8.9	9.5
29	8.4	7.7	8.0	11.1	8.1	9.6	---	---	---	9.8	8.5	8.9
30	8.7	7.9	8.3	10.5	9.3	10.0	---	---	---	10.0	8.7	9.5
31	8.8	8.1	8.5	---	---	---	---	---	---	9.4	8.8	9.1
MONTH	---	---	---	12.0	2.2	8.6	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.2	8.6	8.8	10.5	9.2	10.0	8.1	6.8	7.5	9.3	5.2	7.6
2	9.2	7.4	8.2	11.0	7.9	9.5	8.7	7.7	8.1	6.8	2.8	4.9
3	8.8	6.8	7.9	9.2	7.0	7.9	8.7	5.1	7.0	5.8	.7	2.6
4	8.9	6.7	8.3	8.1	6.2	6.9	6.0	4.4	5.2	2.9	.2	.9
5	8.8	7.9	8.5	9.4	6.1	8.1	10.0	4.5	7.9	1.5	.0	.5
6	8.5	7.8	8.1	10.0	9.3	9.6	10.0	6.1	8.8	8.4	.4	3.8
7	7.9	6.1	7.0	10.6	9.7	10.2	8.8	2.0	5.1	8.0	4.6	6.5
8	11.8	7.0	9.3	10.9	8.3	9.6	6.2	2.9	4.7	7.3	3.2	5.8
9	11.8	9.4	10.6	9.3	7.9	8.7	5.9	2.5	3.5	7.4	.9	5.1
10	11.1	8.3	9.6	11.1	7.1	8.5	2.9	1.9	2.2	5.8	1.1	3.7
11	11.2	10.8	11.0	9.6	7.4	8.2	6.5	1.6	3.4	5.0	1.1	2.4
12	10.9	10.2	10.7	9.4	7.1	7.9	7.8	.8	3.4	6.9	1.0	2.8
13	10.9	10.3	10.7	10.0	7.7	9.0	5.2	.7	1.7	7.5	2.0	5.7
14	10.8	8.2	9.5	10.3	8.0	9.3	1.8	.9	1.2	7.8	1.7	5.5
15	10.2	8.8	9.4	10.1	7.0	8.3	2.1	.9	1.4	7.2	2.1	5.4
16	9.7	8.7	9.1	10.8	6.3	8.8	7.7	.8	4.0	8.7	2.1	6.1
17	10.0	8.9	9.5	10.2	3.6	6.2	7.3	1.5	5.6	8.2	5.0	7.1
18	10.6	9.5	10.0	10.7	3.2	7.9	7.4	6.3	6.9	7.8	5.1	6.7
19	10.4	8.6	9.7	10.6	5.6	9.5	8.5	5.9	6.9	6.5	4.2	5.4
20	10.8	8.3	9.4	10.1	8.0	9.1	8.0	4.5	5.3	5.4	3.1	4.2
21	11.1	8.5	9.6	---	---	---	8.2	3.4	5.9	6.4	1.8	3.9
22	11.1	10.0	10.6	---	---	---	8.4	2.8	6.5	7.2	1.9	5.5
23	11.0	9.5	10.1	---	---	---	8.9	1.5	6.4	7.7	3.1	6.3
24	11.7	9.0	9.8	---	---	---	8.6	.8	2.8	7.3	.6	3.7
25	11.2	8.2	9.7	---	---	---	7.8	.7	6.0	5.6	.2	1.8
26	11.2	8.6	10.0	---	---	---	8.2	6.1	7.4	7.4	.1	3.6
27	11.6	8.8	10.6	---	---	---	8.0	2.5	5.2	4.5	.2	2.0
28	11.3	8.4	10.4	10.2	8.7	9.3	9.7	2.8	5.3	4.3	.2	1.0
29	---	---	---	10.2	8.9	9.3	9.7	8.8	9.3	1.5	.2	.3
30	---	---	---	8.9	8.0	8.5	9.8	4.8	8.4	1.6	.3	.4
31	---	---	---	8.3	7.1	7.6	---	---	---	7.8	.3	4.7
MONTH	11.8	6.1	9.5	---	---	---	10.0	.7	5.4	9.3	.0	4.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	2.5	6.1	3.3	.0	.4	7.7	4.5	6.5	.2	.1	.1
2	6.1	2.1	4.2	6.0	.0	2.7	7.0	2.3	5.1	.5	.1	.2
3	3.9	1.1	1.7	7.2	2.3	4.5	5.3	2.2	3.7	7.3	.2	4.1
4	1.9	.1	.8	6.6	1.6	4.6	4.0	.8	2.5	6.9	.8	3.3
5	1.5	.0	.4	8.1	2.4	4.7	2.5	.3	1.2	4.1	.3	1.5
6	2.6	.1	.8	9.8	3.4	5.9	2.1	.1	.4	9.8	.3	6.9
7	.7	.0	.2	8.0	4.0	6.1	.1	.1	.1	8.9	5.0	7.6
8	1.1	.1	.4	6.0	3.6	4.8	.1	.1	.1	9.1	7.0	8.1
9	.1	.0	.1	5.4	2.4	3.9	.1	.1	.1	8.5	6.9	7.6
10	1.3	.0	.1	5.1	1.9	3.0	.1	.0	.1	7.4	.4	4.6
11	.1	.0	.1	2.3	.3	.9	.1	.0	.1	7.7	.4	5.7
12	.2	.0	.1	5.7	.4	2.6	.1	.0	.1	7.6	3.9	6.2
13	3.2	.0	.1	5.9	4.5	5.2	.1	.0	.1	7.7	3.4	5.5
14	6.7	.2	4.8	6.2	4.1	4.8	.1	.0	.0	9.0	3.2	7.2
15	5.9	2.2	4.5	5.8	.6	1.5	.2	.0	.1	7.8	6.6	7.3
16	5.7	.9	2.3	3.2	.7	1.4	.9	.0	.1	7.6	6.7	7.2
17	1.9	.6	1.1	1.8	.7	.8	.2	.0	.0	7.5	5.2	6.8
18	1.5	.4	1.0	.9	.1	.4	.1	.0	.0	6.1	5.3	5.7
19	1.6	.0	.4	.2	.1	.1	.0	.0	.0	5.7	4.5	4.9
20	.8	.0	.2	5.5	.2	.8	.3	.0	.0	4.7	2.4	3.7
21	.7	.1	.2	7.5	.2	3.9	.0	.0	.0	5.6	1.5	2.7
22	1.2	.2	.4	7.5	.6	4.9	.0	.0	.0	3.9	.5	1.4
23	3.1	.2	.9	5.1	.3	1.7	.4	.0	.1	1.3	.1	.2
24	.4	.3	.4	7.6	.3	2.9	.1	.0	.1	4.8	.1	1.1
25	9.6	.3	3.3	7.1	.8	3.7	3.7	.0	.5	.8	.1	.2
26	8.9	3.2	7.2	2.8	.0	.5	6.5	.2	3.9	6.4	.1	1.2
27	8.4	1.2	5.5	6.1	.0	1.8	3.3	.1	.9	.8	.3	.5
28	5.2	.0	1.2	6.6	.8	5.5	.7	.1	.2	5.0	.1	.4
29	1.0	.0	.1	5.9	.1	2.3	.3	.2	.2	6.3	.1	4.6
30	.6	.0	.0	6.8	.1	4.4	.3	.0	.2	7.1	5.5	6.3
31	---	---	---	8.6	.2	5.5	.1	.0	.0	---	---	---
MONTH	9.6	.0	1.6	9.8	.0	3.1	7.7	.0	.9	9.8	.1	4.1

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	91	85	88	96	87	91	106	89	96	104	94	98
2	110	85	94	95	87	91	97	87	93	104	99	101
3	101	86	92	96	89	92	87	84	86	---	---	---
4	152	78	101	101	90	95	91	84	87	---	---	---
5	115	75	89	98	85	90	95	86	90	---	---	---
6	99	76	85	94	83	88	92	86	89	---	---	---
7	109	84	92	105	85	96	94	86	90	---	---	---
8	92	72	81	110	85	100	99	89	94	---	---	---
9	96	80	87	110	77	93	99	94	96	---	---	---
10	106	84	94	87	62	79	95	89	92	---	---	---
11	140	91	109	88	79	84	98	88	91	---	---	---
12	122	93	112	98	85	90	100	91	95	---	---	---
13	135	100	116	107	89	97	96	90	92	---	---	---
14	147	100	121	105	90	97	102	91	96	---	---	---
15	145	116	127	94	81	89	103	93	98	---	---	---
16	147	105	125	108	84	94	117	95	101	---	---	---
17	131	107	118	96	77	84	---	---	---	---	---	---
18	121	107	114	115	78	86	131	84	94	---	---	---
19	115	91	102	88	78	83	122	93	103	---	---	---
20	---	---	---	93	73	81	98	87	92	---	---	---
21	---	---	---	90	82	85	106	87	96	---	---	---
22	---	---	---	89	80	85	103	91	97	---	---	---
23	---	---	---	92	82	87	95	86	90	---	---	---
24	---	---	---	97	86	90	112	90	98	---	---	---
25	---	---	---	94	88	90	100	91	94	---	---	---
26	90	81	85	94	88	91	99	90	94	---	---	---
27	85	81	83	97	88	92	98	91	95	---	---	---
28	99	79	88	119	88	97	97	93	95	---	---	---
29	91	83	87	108	93	99	99	93	96	---	---	---
30	94	86	89	95	83	89	99	93	96	---	---	---
31	93	85	89	---	---	---	106	94	97	---	---	---
MONTH	---	---	---	119	62	90	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	115	100	107	96	87	92	127	96	114
2	---	---	---	125	94	111	93	83	89	147	101	122
3	---	---	---	124	112	117	97	90	93	143	113	127
4	---	---	---	116	103	110	98	87	93	154	110	128
5	---	---	---	---	---	---	105	91	98	145	44	114
6	---	---	---	---	---	---	110	96	102	103	86	95
7	---	---	---	---	---	---	116	94	99	90	72	79
8	---	---	---	124	93	103	105	82	99	98	73	84
9	115	108	112	117	98	107	111	62	89	98	76	86
10	---	---	---	114	93	102	108	88	95	109	81	95
11	104	99	101	121	103	111	103	88	95	101	81	91
12	105	96	100	117	100	109	102	91	96	88	68	81
13	100	95	98	108	76	86	97	81	88	92	74	83
14	107	93	98	110	86	96	112	78	94	94	81	88
15	100	90	96	107	87	94	101	86	92	94	82	88
16	---	---	---	113	86	97	100	61	86	121	83	93
17	---	---	---	131	91	108	93	82	86	91	81	87
18	99	89	94	112	90	96	89	77	85	113	76	92
19	107	93	99	107	88	96	125	84	97	110	84	97
20	112	97	105	94	73	84	118	92	104	118	86	98
21	114	96	106	---	---	---	115	92	103	98	76	82
22	107	96	100	---	---	---	126	94	105	94	80	87
23	108	93	100	---	---	---	114	88	98	97	76	85
24	114	102	108	---	---	---	107	79	94	146	79	106
25	110	104	107	---	---	---	91	74	82	121	92	106
26	115	102	107	---	---	---	87	70	81	106	87	96
27	122	104	112	---	---	---	106	80	92	95	79	89
28	116	103	109	104	93	98	118	70	96	84	68	77
29	---	---	---	99	93	95	100	92	94	108	71	83
30	---	---	---	95	85	90	124	95	104	114	86	100
31	---	---	---	99	89	94	---	---	---	104	77	91
MONTH	---	---	---	---	---	---	126	61	94	154	44	95

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	95	82	90	96	27	50	117	96	106	120	51	81
2	106	80	89	80	32	56	116	94	105	134	89	101
3	110	78	94	135	61	92	118	89	102	144	82	106
4	120	94	107	115	67	92	142	88	109	130	96	110
5	139	79	104	101	53	76	166	94	123	150	91	113
6	111	71	94	140	52	86	138	81	111	121	92	105
7	113	72	93	140	82	108	124	56	90	144	84	101
8	128	80	98	116	89	103	126	53	88	122	90	102
9	135	87	106	167	93	119	123	62	89	117	82	98
10	178	91	122	142	69	124	125	66	91	130	54	85
11	134	81	106	142	62	108	108	64	93	108	41	92
12	108	42	76	107	71	90	---	---	---	127	89	104
13	90	45	72	85	64	73	---	---	---	116	95	103
14	93	66	77	105	65	82	---	---	---	109	87	99
15	90	66	79	141	87	105	---	---	---	92	79	85
16	124	75	94	135	92	112	155	94	114	90	79	84
17	115	83	93	126	72	97	145	101	123	110	83	92
18	133	82	102	121	41	82	133	69	103	128	87	106
19	146	92	115	97	45	72	116	76	95	140	82	110
20	136	103	122	78	62	69	116	19	84	128	94	109
21	133	97	111	97	59	73	154	70	101	123	94	106
22	134	80	101	102	71	84	146	101	119	148	77	117
23	104	77	92	114	71	89	152	80	121	143	76	100
24	114	84	96	96	73	83	110	65	93	110	91	100
25	125	86	102	93	66	78	103	80	89	96	82	89
26	120	93	104	91	63	79	112	68	90	91	73	82
27	150	90	108	88	48	69	132	82	97	120	74	96
28	137	85	105	113	68	83	117	49	85	104	62	91
29	138	54	95	108	72	87	95	51	69	78	64	70
30	110	27	70	96	65	79	108	65	78	76	66	71
31	---	---	---	117	78	97	99	64	81	---	---	---
MONTH	178	27	97	167	27	87	---	---	---	150	41	97

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	100	87	96	93	86	89	93	80	88	---	---	---
2	116	94	101	94	86	90	96	71	92	---	---	---
3	106	46	80	92	84	88	90	85	87	---	---	---
4	94	35	58	88	71	78	89	83	86	---	---	---
5	55	21	37	92	72	85	88	80	84	---	---	---
6	49	15	27	87	64	80	83	77	80	---	---	---
7	68	19	29	72	63	67	82	75	78	---	---	---
8	90	24	78	74	63	69	83	72	77	---	---	---
9	98	69	87	73	56	63	97	69	87	---	---	---
10	104	62	89	84	38	62	90	60	77	---	---	---
11	---	---	---	91	75	83	88	62	77	---	---	---
12	---	---	---	96	74	88	95	68	80	90	69	74
13	---	---	---	90	72	82	93	57	84	92	83	89
14	---	---	---	94	68	82	96	60	78	84	61	73
15	---	---	---	94	69	83	101	78	95	80	74	77
16	---	---	---	78	45	68	100	92	94	82	63	76
17	---	---	---	89	25	63	98	65	85	80	58	73
18	---	---	---	90	22	70	96	73	79	87	71	79
19	---	---	---	91	24	83	---	---	---	97	62	80
20	---	---	---	85	58	76	---	---	---	90	66	79
21	---	---	---	90	67	84	---	---	---	83	72	77
22	---	---	---	91	82	87	---	---	---	86	76	81
23	---	---	---	97	82	89	---	---	---	84	78	81
24	---	---	---	100	88	93	---	---	---	78	65	74
25	---	---	---	95	88	93	---	---	---	84	70	78
26	84	59	78	96	86	93	---	---	---	80	71	74
27	84	77	80	98	85	91	---	---	---	81	69	75
28	86	67	74	108	75	93	---	---	---	81	73	77
29	89	82	85	98	73	85	---	---	---	79	70	73
30	91	83	86	94	83	88	---	---	---	83	72	79
31	91	84	88	---	---	---	---	---	---	80	74	78
MONTH	---	---	---	108	22	82	---	---	---	---	---	---

0209262905 NEUSE RIVER AT CHANNEL LIGHT 11--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	80	74	76	98	86	94	78	64	71	100	55	81
2	79	64	71	105	74	89	84	72	77	73	29	52
3	76	59	68	87	66	74	83	49	66	61	7	28
4	76	57	70	76	57	64	57	42	49	30	2	9
5	76	67	73	87	57	75	98	43	76	16	0	5
6	73	66	70	87	84	85	97	59	85	96	4	42
7	68	53	60	91	83	87	87	19	50	88	49	71
8	102	60	80	93	72	83	61	28	46	80	35	63
9	102	81	92	81	69	76	59	24	34	82	10	55
10	101	72	85	95	62	74	28	18	21	63	12	40
11	101	96	98	85	65	72	69	16	35	55	12	26
12	96	90	94	83	62	70	86	8	36	79	11	31
13	97	90	94	90	68	84	56	7	18	87	22	65
14	95	72	83	97	75	87	19	9	12	90	19	63
15	91	77	83	96	65	79	22	9	14	82	24	62
16	88	76	81	104	60	85	83	8	43	98	24	69
17	93	81	87	99	34	60	77	16	58	91	56	79
18	96	87	91	103	30	76	74	63	70	86	56	74
19	93	77	87	101	53	90	86	59	68	73	47	60
20	95	75	84	95	74	84	81	45	53	61	35	47
21	105	77	86	---	---	---	85	34	59	75	20	45
22	103	90	96	---	---	---	88	28	67	87	22	65
23	97	83	89	---	---	---	93	16	66	91	36	74
24	106	79	87	---	---	---	93	8	29	86	7	43
25	103	73	87	---	---	---	84	7	64	67	2	21
26	105	78	93	---	---	---	85	64	77	89	1	44
27	109	82	100	---	---	---	83	26	53	53	3	24
28	107	78	97	93	79	85	102	29	56	51	2	11
29	---	---	---	93	82	85	102	92	98	18	2	4
30	---	---	---	83	75	79	105	51	88	19	4	5
31	---	---	---	77	67	72	---	---	---	92	4	56
MONTH	109	53	84	---	---	---	105	7	55	100	0	46

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	82	30	72	41	0	5	96	55	80	2	1	1
2	73	25	49	76	0	34	86	29	64	7	1	2
3	46	13	20	91	29	56	67	28	47	91	3	51
4	23	1	9	82	20	58	50	10	31	86	9	41
5	18	0	5	102	30	59	31	4	14	51	4	18
6	31	1	10	125	42	74	26	1	5	123	4	85
7	9	0	2	101	50	76	1	1	1	111	61	94
8	13	1	5	76	45	60	1	1	1	114	86	101
9	2	0	1	67	30	49	1	1	1	106	85	95
10	16	0	2	63	24	37	1	1	1	93	5	58
11	1	0	1	28	4	12	1	1	1	98	5	72
12	3	0	1	73	5	33	1	1	1	96	49	78
13	39	0	2	74	57	66	1	1	1	96	42	68
14	83	3	60	78	50	60	1	1	1	111	39	89
15	73	27	56	73	7	19	2	0	1	94	79	87
16	70	11	28	40	8	18	12	0	1	89	78	85
17	24	7	14	22	9	11	2	0	0	87	62	79
18	18	5	12	11	1	5	1	0	0	71	62	67
19	20	0	5	2	1	1	0	0	0	67	53	57
20	9	0	3	68	2	10	3	0	0	55	28	44
21	8	2	2	95	2	49	1	0	0	67	18	32
22	15	3	4	95	7	61	0	0	0	46	6	17
23	39	3	11	64	3	21	6	0	1	16	1	3
24	5	4	4	96	3	37	1	0	1	59	1	13
25	123	4	42	92	9	48	47	0	6	10	1	2
26	113	40	91	36	0	6	82	2	49	76	2	15
27	108	15	69	77	0	23	42	2	11	10	3	6
28	66	0	15	82	9	68	9	2	2	58	1	4
29	13	0	2	74	2	28	3	3	3	72	1	53
30	8	0	1	84	1	54	3	0	2	81	61	70
31	---	---	---	107	3	67	2	0	1	---	---	---
MONTH	123	0	20	125	0	39	96	0	11	123	1	50

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9

LOCATION.--Lat. 34°56'54", long. 76°48'36", 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. 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760mm of Hg beginning October 1, 2000. Salinity, minimum extremes are reported as <0.1 ppt. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY(TOP), ppt	20.0, August 17, 2000	<0.1, on several days during the period
SALINITY(BOTTOM), ppt	22.8, August 13, 2001	<0.1, on several 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	6.1, October 1, 1998
WATER TEMPERATURE (TOP), °C	32.3, August 6, 1989	0.3, March 14, 1993
WATER TEMPERATURE (BOTTOM), °C	31.4, July 29, 1999	1.8, January 29, 2000
DISSOLVED OXYGEN (TOP), mg/L	20.7, April 10, 1991	< 1.0, on several 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	18.4, August 11	2.6, April 4, 7, 8
SALINITY (BOTTOM), ppt	22.8, August 13	2.5, October 9
pH (TOP), standard units	9.1, October 13, 14, 16-19	7.0, April 29, May 12, July 2
pH (BOTTOM), standard units	9.0, April 5	6.6, May 5, June 10, 11
WATER TEMPERATURE (TOP), °C	31.3, June 28	1.0, January 5
WATER TEMPERATURE (BOTTOM), °C	29.0, August 18	2.3, January 4
DISSOLVED OXYGEN (TOP), mg/L	13.9, January 18, June 27	<1.0, August 10
DISSOLVED OXYGEN (BOTTOM), mg/L	15.0, December 7	< 1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	183, June 27	12, August 10
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	125, October 7	< 10, on several days during the year

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.7	4.7	5.1	8.1	7.1	7.7	9.9	9.0	9.4	8.6	7.5	8.2
2	4.8	3.7	4.2	7.9	6.9	7.7	10.2	9.5	9.8	8.0	7.3	7.5
3	4.9	3.7	4.3	8.2	6.9	7.8	9.9	8.2	9.4	8.7	6.9	7.5
4	4.8	4.3	4.5	8.2	7.4	7.9	8.2	6.6	7.2	8.3	7.0	7.5
5	5.2	4.1	4.5	8.4	7.4	8.0	7.3	6.1	6.4	10.8	7.1	8.2
6	5.5	3.7	4.4	8.3	6.7	7.5	7.2	6.0	6.6	9.6	8.2	8.8
7	5.6	3.2	4.0	8.1	6.3	7.0	6.8	6.0	6.3	8.6	7.7	8.0
8	5.4	3.2	4.1	8.1	7.0	7.4	6.9	5.3	6.1	9.2	7.6	8.0
9	4.9	2.8	3.3	10.2	7.0	7.9	7.5	6.2	6.9	8.2	7.5	7.7
10	7.4	3.6	5.3	11.5	9.3	10.0	7.3	6.4	6.8	10.7	7.3	9.1
11	6.8	5.3	6.3	10.4	8.8	9.5	6.5	5.7	6.2	10.2	7.9	9.0
12	6.8	6.1	6.5	9.5	8.8	8.9	8.0	6.2	7.5	10.6	8.4	9.0
13	7.0	5.4	6.0	9.5	8.7	8.8	8.0	7.4	7.7	10.0	8.9	9.3
14	6.2	4.5	5.3	9.7	8.6	9.0	8.0	7.5	7.8	10.0	8.8	9.4
15	6.7	4.4	5.2	9.8	8.8	9.4	8.2	7.7	8.0	10.1	8.3	9.0
16	6.4	4.8	5.5	10.0	8.8	9.3	8.1	7.4	7.6	10.2	9.3	9.7
17	6.2	5.1	5.5	10.0	9.2	9.6	---	---	---	10.6	9.5	10.0
18	5.6	5.0	5.2	10.6	9.5	10.1	---	---	---	10.7	9.3	10.3
19	5.6	4.9	5.3	10.4	9.5	10.1	8.4	7.9	8.2	11.5	9.9	10.7
20	5.9	5.0	5.3	10.3	9.4	9.7	8.6	7.8	8.1	12.2	10.2	11.4
21	6.4	4.9	5.6	---	---	---	8.7	7.2	8.0	12.0	10.9	11.4
22	7.1	5.8	6.4	10.7	9.3	9.9	8.8	7.4	7.8	11.6	11.3	11.4
23	8.4	7.0	7.5	10.6	9.1	10.0	8.8	6.9	7.5	11.8	10.3	11.4
24	7.9	7.0	7.4	10.5	10.2	10.3	7.6	6.0	7.1	10.3	7.3	8.8
25	8.3	7.4	7.7	10.4	9.8	10.2	7.2	6.4	6.7	10.4	7.2	8.5
26	---	---	---	10.0	8.3	8.9	7.2	6.1	6.5	9.1	8.2	8.7
27	8.2	7.2	7.9	9.4	8.3	8.9	7.2	5.7	6.1	10.2	9.0	9.8
28	---	---	---	9.7	8.3	9.0	7.1	5.8	6.4	10.6	10.0	10.4
29	8.8	7.2	7.9	9.3	8.6	9.0	6.8	5.7	6.3	---	---	---
30	8.3	7.4	8.0	9.6	9.0	9.3	7.0	5.1	5.8	12.5	10.3	11.3
31	8.4	7.7	8.1	---	---	---	8.5	5.8	7.6	11.7	10.9	11.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.5	11.0	11.2	10.2	6.2	8.3	6.3	3.3	4.1	8.3	6.9	7.7
2	11.4	9.8	10.7	8.1	6.1	7.2	6.9	5.0	6.2	8.2	7.3	7.6
3	10.4	9.6	9.9	---	---	---	6.2	3.1	4.5	7.6	5.9	7.0
4	11.3	10.2	10.7	---	---	---	5.0	2.6	3.6	10.7	5.6	6.4
5	10.8	10.0	10.4	---	---	---	5.8	4.3	5.0	7.5	5.0	5.7
6	10.4	9.2	9.7	---	---	---	5.2	3.4	4.5	9.6	5.7	7.6
7	10.0	8.8	9.2	---	---	---	5.7	2.6	4.3	11.0	7.2	9.1
8	10.5	8.3	9.3	---	---	---	5.4	2.6	3.4	11.1	7.9	9.3
9	---	---	---	---	---	---	6.9	2.9	3.9	10.9	8.3	8.9
10	---	---	---	---	---	---	8.7	4.0	5.7	8.8	7.3	7.9
11	---	---	---	---	---	---	9.3	5.2	7.7	10.9	6.8	8.0
12	11.7	10.7	11.2	---	---	---	8.6	4.4	6.7	11.1	8.3	9.7
13	11.0	8.3	10.1	11.3	9.1	9.9	8.6	4.6	6.7	10.2	9.4	9.9
14	---	---	---	---	---	---	7.7	5.6	6.2	10.9	9.2	9.5
15	---	---	---	10.0	7.7	8.4	6.8	3.7	5.0	11.1	8.6	9.4
16	---	---	---	9.8	8.3	9.0	7.3	3.9	5.4	10.8	9.1	9.7
17	---	---	---	9.4	8.3	8.8	8.4	4.8	6.2	10.9	10.3	10.5
18	11.5	10.6	11.1	8.5	7.0	7.7	9.6	6.1	7.9	10.7	9.6	10.2
19	---	---	---	9.5	7.1	8.5	8.5	6.9	7.5	10.2	9.2	9.6
20	---	---	---	11.9	8.9	10.7	8.7	7.2	7.7	10.4	9.0	9.7
21	---	---	---	11.8	7.5	9.0	8.7	7.2	8.0	12.0	9.0	9.8
22	---	---	---	8.3	7.5	7.9	8.3	6.5	7.8	12.2	10.0	10.9
23	10.0	7.2	8.6	8.7	6.8	7.8	8.4	6.2	7.5	11.8	10.9	11.3
24	9.8	7.3	8.9	9.4	5.7	7.2	9.8	6.1	7.9	11.7	9.5	10.8
25	11.0	8.9	10.1	8.7	7.0	8.2	9.7	6.9	8.6	11.7	10.0	10.7
26	---	---	---	8.4	7.3	7.8	9.5	6.0	8.2	12.3	10.5	11.4
27	10.6	9.9	10.4	8.2	6.2	7.0	7.5	4.8	5.9	12.3	10.1	10.7
28	10.7	9.5	9.9	8.1	5.8	7.2	10.0	6.7	8.1	11.7	10.3	11.0
29	---	---	---	8.1	5.8	6.8	9.8	9.0	9.5	11.7	9.9	10.6
30	---	---	---	7.4	5.3	6.1	9.5	8.0	8.6	12.0	8.8	9.7
31	---	---	---	6.2	2.7	3.6	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	10.0	2.6	6.4	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.8	5.6	7.3	13.3	12.3	12.7	12.7	10.9	11.6
2	---	---	---	12.4	9.5	11.0	13.2	11.6	12.5	13.9	11.5	12.6
3	11.1	9.7	10.6	12.6	10.9	11.7	11.8	11.0	11.5	14.7	12.9	13.7
4	11.1	8.9	10.9	12.6	11.8	12.1	11.5	8.9	10.1	13.7	12.8	13.2
5	11.5	9.5	10.7	12.6	11.3	11.8	11.6	9.6	10.1	13.7	10.9	12.1
6	11.0	9.3	9.9	12.2	10.1	11.2	10.9	9.8	10.2	14.6	12.2	13.5
7	10.1	8.8	9.4	12.7	11.4	12.0	10.4	8.1	9.0	14.6	13.5	13.9
8	10.3	7.3	8.6	12.2	11.5	11.7	10.7	7.9	9.1	14.4	13.9	14.2
9	8.7	7.2	7.6	---	---	---	13.0	9.0	10.7	14.7	13.3	14.2
10	9.2	7.4	8.0	---	---	---	17.5	10.9	13.8	13.8	12.7	13.2
11	10.4	8.0	8.7	---	---	---	18.4	13.3	15.9	13.6	12.7	13.0
12	9.8	7.9	8.6	---	---	---	15.5	11.8	14.2	13.8	12.8	13.2
13	15.4	9.2	12.0	13.1	11.6	12.3	17.5	11.8	13.6	14.0	13.5	13.8
14	16.6	14.1	15.1	11.9	11.1	11.6	15.5	12.6	14.3	15.0	13.0	13.7
15	15.1	12.6	13.5	11.3	9.0	10.0	---	---	---	15.1	13.7	14.4
16	---	---	---	10.7	8.4	9.0	---	---	---	14.7	10.4	13.3
17	---	---	---	14.5	8.3	10.7	14.5	10.0	11.7	13.0	9.6	10.8
18	12.8	8.3	9.3	14.0	8.6	10.7	16.8	11.3	13.0	13.6	10.3	11.3
19	11.1	10.1	10.5	12.2	9.6	10.7	15.0	11.3	13.4	14.1	10.6	12.2
20	10.6	8.9	9.6	11.3	10.0	10.8	13.6	12.1	12.7	14.2	12.2	13.2
21	9.2	6.8	8.1	12.0	9.9	10.9	---	---	---	13.7	10.6	12.3
22	9.0	3.9	6.6	11.8	11.3	11.6	13.1	11.2	12.2	13.9	10.7	11.7
23	11.8	7.2	9.7	11.7	10.7	11.2	12.6	9.2	11.1	14.3	11.0	11.9
24	11.1	7.1	9.4	12.4	10.7	11.5	10.4	8.5	9.2	15.9	12.5	14.3
25	11.1	9.5	10.3	12.4	11.1	12.0	10.3	8.1	9.0	15.7	13.4	14.2
26	11.1	8.8	9.8	12.4	11.1	11.6	8.1	4.7	5.8	13.4	12.6	13.0
27	---	---	---	12.2	11.1	11.7	8.5	4.7	6.1	13.3	12.2	12.6
28	7.2	4.2	5.8	12.8	11.7	12.2	11.8	7.9	9.5	13.3	12.1	12.4
29	6.9	3.3	4.2	12.8	12.2	12.4	13.8	10.8	11.3	12.8	12.0	12.4
30	5.9	3.8	4.5	12.8	12.0	12.4	---	---	---	12.2	10.7	11.4
31	---	---	---	12.8	11.9	12.3	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	15.9	9.6	12.9

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.7	4.6	5.1	8.6	7.9	8.2	10.8	9.3	9.8	9.5	8.0	8.5
2	6.2	3.7	4.3	8.9	7.7	8.0	10.2	9.5	9.8	9.5	7.3	7.8
3	6.8	4.5	5.5	9.0	7.7	8.3	9.8	8.2	9.3	9.7	7.7	8.5
4	10.8	4.6	6.8	9.6	8.1	8.8	9.4	7.1	7.7	10.9	7.8	9.1
5	11.4	8.3	10.0	10.4	7.8	8.5	10.4	6.9	8.3	12.8	9.2	10.9
6	12.3	8.3	10.7	10.0	7.7	8.4	11.1	7.2	8.9	11.3	8.6	9.4
7	12.6	3.6	6.9	11.1	8.2	9.9	10.6	6.3	7.7	13.0	8.9	10.3
8	5.0	3.2	4.0	11.7	9.6	10.8	12.1	7.8	9.8	13.7	10.0	12.5
9	5.5	2.5	3.6	12.6	10.2	11.5	12.0	6.9	8.7	13.9	7.7	9.6
10	7.4	4.3	5.2	13.1	9.7	10.6	9.3	6.4	7.3	12.5	8.0	10.3
11	7.4	5.5	6.2	10.7	9.0	9.8	9.1	6.4	7.7	14.4	10.4	12.0
12	9.9	5.9	7.2	10.7	8.8	9.5	10.3	7.5	8.2	15.5	10.0	13.3
13	9.3	6.0	7.4	11.4	8.9	10.2	7.9	7.3	7.7	11.9	8.8	9.9
14	12.4	6.7	9.7	13.0	9.2	10.4	8.3	7.5	7.8	12.4	10.2	11.4
15	12.6	9.4	11.5	11.4	9.2	9.9	8.1	7.7	7.9	12.0	10.7	11.4
16	13.0	10.5	12.4	11.8	9.8	10.8	9.7	7.4	7.9	14.6	9.9	11.4
17	12.9	6.8	11.3	11.3	9.3	9.9	---	---	---	12.8	10.6	11.3
18	11.0	4.5	6.1	11.6	9.8	10.7	9.2	8.2	8.4	11.7	10.2	10.8
19	7.9	4.7	5.5	10.6	9.6	10.0	8.7	7.8	8.3	14.1	10.3	11.3
20	12.3	5.3	8.3	11.1	9.3	9.8	9.1	7.8	8.2	13.1	11.0	11.6
21	12.6	8.2	10.1	---	---	---	9.5	7.9	8.8	12.0	11.1	11.4
22	12.4	6.0	10.3	---	---	---	9.6	7.6	8.2	11.8	11.3	11.3
23	10.2	7.0	8.0	10.8	9.7	10.3	9.8	7.0	8.2	11.7	10.2	11.2
24	8.8	7.6	8.1	10.4	10.0	10.2	7.8	6.6	7.2	12.2	9.7	10.8
25	9.0	7.4	8.0	10.4	9.8	10.2	8.0	6.3	6.9	12.2	8.3	9.9
26	---	---	---	10.1	8.9	9.5	7.2	6.1	6.5	11.7	8.5	10.2
27	8.5	7.6	8.1	10.2	8.6	9.3	8.3	6.1	7.2	11.3	9.4	10.1
28	---	---	---	10.2	8.6	9.3	8.1	6.2	6.9	11.2	10.2	10.6
29	9.2	7.8	8.6	10.7	9.0	9.8	8.1	6.1	6.8	---	---	---
30	9.2	7.8	8.4	10.4	9.0	9.5	8.0	5.5	6.5	12.5	10.7	11.5
31	8.8	8.0	8.4	---	---	---	8.7	6.5	7.8	11.7	10.9	11.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.7	11.0	11.3	10.7	8.0	9.7	11.5	4.0	8.5	9.4	7.1	8.4
2	11.7	10.1	10.8	11.2	8.3	9.7	9.7	5.7	6.8	10.7	7.8	9.0
3	11.7	9.5	10.3	---	---	---	11.7	4.2	8.7	11.4	9.0	10.4
4	11.5	10.2	10.7	---	---	---	10.8	4.0	7.0	12.7	9.1	11.1
5	11.5	9.9	10.6	---	---	---	6.6	4.6	5.3	13.7	10.0	12.7
6	11.7	9.7	10.5	---	---	---	8.0	4.6	5.2	13.7	6.5	10.1
7	12.0	9.1	10.4	---	---	---	7.8	4.1	5.6	11.2	8.5	10.4
8	12.4	9.7	11.2	---	---	---	11.7	4.4	8.5	11.1	8.1	9.9
9	---	---	---	---	---	---	13.9	7.7	11.4	11.4	8.5	9.6
10	---	---	---	---	---	---	14.1	5.2	11.2	11.3	8.4	10.1
11	---	---	---	---	---	---	10.4	7.2	8.4	11.7	9.0	10.8
12	11.5	10.8	11.2	---	---	---	13.0	8.0	10.2	11.7	9.2	10.3
13	11.1	9.8	10.7	11.3	9.3	10.1	13.6	5.1	8.5	11.0	9.6	10.1
14	---	---	---	---	---	---	10.5	5.6	7.5	11.1	9.2	9.7
15	---	---	---	11.8	8.2	10.0	13.5	5.8	9.6	11.8	9.2	10.3
16	---	---	---	11.3	8.4	9.8	8.5	4.6	6.2	12.2	9.5	10.7
17	---	---	---	10.9	8.5	9.5	8.8	6.0	6.9	11.0	10.3	10.6
18	11.3	10.5	11.0	9.1	7.0	8.0	9.7	6.3	8.2	10.8	9.7	10.5
19	---	---	---	9.5	7.2	8.6	10.1	7.3	8.3	11.2	9.5	10.1
20	---	---	---	11.9	9.0	10.8	10.8	7.7	8.7	12.9	9.3	10.7
21	---	---	---	11.8	8.0	9.5	11.1	7.7	8.7	13.6	10.2	11.9
22	---	---	---	8.9	7.5	8.1	10.7	8.1	8.8	12.4	10.2	11.2
23	11.9	8.6	9.9	9.9	7.4	8.2	11.7	7.8	9.4	12.4	10.9	11.5
24	11.0	8.2	9.9	11.2	7.1	8.6	14.3	8.5	11.3	12.4	10.4	11.3
25	11.6	9.8	10.5	9.5	7.2	8.4	10.6	8.5	9.1	12.8	10.5	11.7
26	---	---	---	9.0	7.5	8.0	9.8	7.9	8.9	13.5	10.8	12.5
27	10.8	10.1	10.4	8.9	6.6	7.7	11.8	7.2	8.9	16.5	10.6	12.5
28	10.6	9.5	10.1	8.2	7.1	7.5	10.0	7.3	8.4	12.4	8.3	10.9
29	---	---	---	8.4	6.1	7.2	9.8	9.0	9.5	13.9	10.0	11.7
30	---	---	---	8.3	5.6	6.7	9.7	8.3	8.9	13.7	9.3	11.4
31	---	---	---	9.8	5.8	8.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	14.3	4.0	8.4	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	16.3	9.8	14.0	---	---	---	18.9	11.6	16.2
2	---	---	---	16.2	10.0	12.1	---	---	---	19.0	12.4	16.3
3	11.5	10.2	10.9	12.9	11.0	12.1	---	---	---	16.0	13.5	14.3
4	12.4	10.7	11.2	13.8	12.0	12.5	---	---	---	15.5	13.4	14.3
5	13.3	10.2	11.5	12.6	11.6	12.0	---	---	---	15.1	12.7	13.9
6	14.5	9.6	11.6	13.0	10.7	11.7	15.4	9.1	13.3	15.1	12.8	14.2
7	13.3	9.1	10.5	13.0	11.5	12.2	16.8	14.0	15.8	14.7	13.7	14.0
8	14.6	8.6	10.7	12.6	11.6	12.0	17.7	15.9	17.0	14.4	13.9	14.2
9	14.9	10.0	12.2	---	---	---	19.2	16.7	18.0	14.7	13.8	14.4
10	15.1	10.5	13.7	---	---	---	20.2	17.4	19.0	14.6	13.3	13.9
11	15.9	13.2	14.4	---	---	---	21.7	17.8	20.2	14.8	12.8	13.8
12	17.2	12.7	15.5	---	---	---	21.9	17.1	20.3	14.5	12.8	13.4
13	17.3	14.5	16.2	14.2	11.6	12.4	22.8	18.4	21.6	14.0	13.5	13.8
14	17.2	14.5	15.5	12.0	11.2	11.6	22.6	14.2	18.8	15.0	12.9	13.7
15	15.1	12.6	13.5	13.4	10.1	11.5	---	---	---	15.3	13.9	14.6
16	---	---	---	14.7	10.4	12.9	---	---	---	15.3	12.6	14.0
17	---	---	---	15.3	13.0	14.2	21.4	15.5	18.9	16.5	12.0	14.7
18	14.9	11.5	13.7	15.2	10.5	13.4	20.8	13.3	17.7	16.4	14.7	15.7
19	14.6	10.7	11.9	14.9	10.6	12.4	20.7	14.2	16.9	16.5	14.0	15.7
20	13.5	10.2	11.5	11.4	10.1	10.9	20.8	12.7	18.8	15.8	14.1	14.9
21	14.7	9.7	12.4	12.1	10.0	11.1	---	---	---	16.2	13.5	14.8
22	14.4	10.0	13.1	12.1	11.5	11.8	19.3	14.4	16.8	17.2	14.0	15.7
23	14.7	11.5	13.2	13.1	11.0	11.8	17.7	13.3	15.1	17.4	15.2	16.4
24	14.5	10.5	12.4	13.5	11.1	12.3	19.6	14.7	16.5	17.9	15.2	16.5
25	11.4	10.0	10.7	13.7	11.5	12.5	18.6	8.5	12.5	17.5	13.7	15.0
26	11.3	9.3	10.4	13.5	11.3	12.1	14.6	5.9	11.7	15.5	13.1	13.8
27	---	---	---	13.1	11.3	11.8	18.5	13.3	15.5	15.4	12.8	14.1
28	13.0	7.0	10.5	13.3	11.7	12.4	19.2	12.7	16.5	16.9	12.4	13.6
29	14.9	7.9	12.3	---	---	---	18.1	14.1	16.2	13.3	12.3	12.6
30	16.0	10.0	14.4	---	---	---	---	---	---	13.1	10.9	11.7
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	19.0	10.9	14.5

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.8	7.9	8.0	7.8	7.9	7.9	7.6	7.8	8.2	8.0	8.1
2	8.3	7.6	7.9	8.0	7.8	7.9	7.8	7.5	7.7	8.2	8.1	8.2
3	8.4	7.6	8.0	8.0	7.5	7.8	7.8	7.6	7.6	8.4	8.1	8.2
4	8.7	8.0	8.3	7.9	7.6	7.7	7.9	7.7	7.8	8.3	8.2	8.3
5	8.9	7.8	8.3	7.8	7.5	7.7	8.1	7.7	7.9	8.3	7.9	8.2
6	8.8	7.8	8.3	8.0	7.6	7.7	8.0	7.8	8.0	8.2	8.1	8.1
7	8.3	7.9	8.1	8.0	7.5	7.8	8.1	7.9	8.1	8.4	8.2	8.3
8	8.3	7.5	7.9	8.1	7.4	7.6	8.1	7.9	8.0	8.5	8.2	8.4
9	7.7	7.4	7.6	7.9	7.4	7.6	8.3	8.0	8.1	8.4	8.2	8.4
10	8.0	7.5	7.7	7.7	7.2	7.5	8.1	8.0	8.0	8.2	7.9	8.1
11	8.6	7.6	8.0	7.6	7.3	7.5	8.1	7.9	8.0	8.3	7.9	8.1
12	8.7	7.9	8.5	7.6	7.4	7.5	8.0	7.8	7.9	8.4	8.2	8.3
13	9.1	8.5	8.8	7.9	7.4	7.6	8.1	7.8	8.0	8.4	8.3	8.3
14	9.1	8.8	8.9	7.9	7.4	7.6	8.1	7.9	8.0	8.5	8.2	8.3
15	9.0	8.6	8.8	7.5	7.3	7.4	8.1	7.9	8.0	8.6	8.4	8.5
16	9.1	8.7	8.9	7.8	7.4	7.6	8.2	8.0	8.1	8.6	8.4	8.5
17	9.1	8.7	9.0	7.8	7.4	7.6	---	---	---	8.6	8.4	8.5
18	9.1	8.7	9.0	7.7	7.4	7.6	8.0	7.6	7.8	8.7	8.5	8.5
19	9.1	8.6	8.8	7.7	7.3	7.6	8.2	7.7	8.0	8.6	8.4	8.5
20	9.0	8.6	8.7	7.8	7.4	7.6	8.1	7.9	7.9	8.5	8.1	8.3
21	8.8	8.4	8.6	---	---	---	8.4	7.9	8.1	8.3	8.0	8.2
22	8.7	7.8	8.2	---	---	---	8.3	8.0	8.1	8.3	8.1	8.2
23	8.3	7.8	8.0	---	---	---	8.3	8.0	8.2	8.3	8.2	8.2
24	8.1	7.7	7.9	---	---	---	8.6	8.1	8.3	8.7	8.3	8.5
25	8.1	7.8	7.9	---	---	---	8.3	8.2	8.3	8.7	8.4	8.5
26	---	---	---	---	---	---	8.3	8.1	8.2	8.7	8.3	8.5
27	8.0	7.8	7.9	7.9	7.7	7.8	8.4	8.1	8.3	8.5	8.4	8.5
28	---	---	---	7.9	7.7	7.8	8.3	8.1	8.2	8.6	8.4	8.5
29	8.2	7.8	7.9	8.2	7.7	8.0	8.3	8.1	8.2	---	---	---
30	8.1	7.8	8.0	7.9	7.5	7.7	8.2	8.1	8.1	8.5	8.0	8.3
31	8.0	7.8	7.8	---	---	---	8.1	7.9	8.0	8.4	8.1	8.3
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.3	8.2	8.3	8.4	7.7	8.0	8.5	7.6	8.0	8.1	7.2	7.5
2	8.4	8.3	8.4	8.3	8.0	8.1	8.2	7.6	7.9	8.4	7.3	7.8
3	8.5	8.4	8.4	---	---	---	7.9	7.6	7.8	8.3	7.5	7.9
4	8.4	8.2	8.3	---	---	---	8.6	7.5	8.0	8.2	7.3	7.9
5	8.3	8.2	8.3	---	---	---	8.8	8.0	8.3	8.3	7.3	8.0
6	8.4	8.2	8.3	---	---	---	8.6	8.1	8.3	8.0	7.2	7.5
7	8.5	8.3	8.4	---	---	---	8.9	7.7	8.2	7.5	7.2	7.3
8	8.6	8.2	8.4	---	---	---	8.8	8.2	8.5	7.7	7.3	7.5
9	---	---	---	---	---	---	8.9	7.9	8.4	7.8	7.1	7.5
10	---	---	---	---	---	---	8.8	7.4	8.1	8.0	7.4	7.7
11	---	---	---	---	---	---	8.6	7.7	8.2	8.0	7.3	7.7
12	8.1	8.0	8.0	---	---	---	8.4	7.5	8.0	7.8	7.0	7.4
13	8.3	8.0	8.1	8.2	7.7	8.0	8.4	7.4	7.8	7.6	7.2	7.4
14	---	---	---	---	---	---	8.3	7.5	7.9	7.7	7.2	7.4
15	---	---	---	8.3	8.0	8.2	8.5	7.7	8.0	7.6	7.2	7.3
16	---	---	---	8.3	8.0	8.1	7.9	7.5	7.7	7.9	7.3	7.5
17	---	---	---	8.7	8.2	8.5	7.7	7.3	7.5	7.4	7.2	7.3
18	7.9	7.7	7.8	8.8	8.5	8.7	7.6	7.3	7.4	7.8	7.2	7.4
19	---	---	---	8.7	8.0	8.4	7.6	7.4	7.5	7.9	7.2	7.5
20	---	---	---	8.4	7.8	8.0	7.7	7.4	7.5	8.0	7.2	7.6
21	---	---	---	8.3	7.8	8.1	7.8	7.3	7.5	7.7	7.1	7.5
22	---	---	---	8.2	8.0	8.1	7.7	7.4	7.5	7.9	7.3	7.6
23	8.1	7.8	7.9	8.4	7.9	8.1	8.2	7.3	7.7	7.9	7.5	7.7
24	8.1	7.8	8.0	8.7	8.0	8.3	7.9	7.3	7.6	8.2	7.5	7.8
25	7.9	7.8	7.9	8.2	7.9	8.0	7.7	7.3	7.4	8.2	7.6	7.9
26	---	---	---	8.3	7.8	8.1	7.7	7.3	7.5	8.0	7.4	7.6
27	7.9	7.8	7.8	8.5	8.0	8.3	8.3	7.3	7.6	7.9	7.4	7.6
28	7.9	7.7	7.8	8.5	8.2	8.3	7.9	7.1	7.4	7.7	7.4	7.6
29	---	---	---	8.6	8.1	8.4	7.3	7.0	7.2	7.7	7.4	7.6
30	---	---	---	8.8	8.0	8.4	7.5	7.1	7.3	8.3	7.4	7.9
31	---	---	---	8.9	7.9	8.5	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	8.9	7.0	7.8	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	8.2	7.4	7.8	8.2	8.1	8.1	8.2	7.5	7.9
2	---	---	---	7.6	7.0	7.3	8.3	8.0	8.1	8.2	7.8	7.9
3	7.9	7.2	7.5	7.7	7.3	7.5	8.3	8.0	8.2	8.1	7.6	7.9
4	7.8	7.3	7.5	8.0	7.3	7.6	8.4	8.1	8.3	8.4	7.5	7.9
5	8.3	7.3	7.7	7.8	7.4	7.7	8.4	8.1	8.3	8.5	7.9	8.3
6	8.0	7.4	7.7	8.4	7.6	7.8	8.4	8.0	8.2	8.1	7.9	8.1
7	8.1	7.5	7.8	8.1	7.6	7.8	8.3	7.7	8.0	8.2	7.9	8.1
8	8.1	7.4	7.7	8.0	7.8	7.9	8.3	7.6	8.1	8.2	7.9	8.0
9	8.3	7.6	7.9	---	---	---	8.2	7.5	7.9	8.3	7.7	8.0
10	8.5	7.6	8.0	---	---	---	7.7	7.2	7.4	8.1	7.6	7.9
11	8.6	7.3	7.9	---	---	---	7.8	7.2	7.4	8.4	8.0	8.2
12	8.4	7.3	8.0	---	---	---	7.8	7.4	7.6	8.4	8.1	8.2
13	7.8	7.2	7.5	8.1	7.7	7.9	8.1	7.6	7.9	8.2	7.9	8.1
14	7.7	7.2	7.4	8.2	7.7	7.9	8.3	7.6	7.9	8.2	7.9	8.1
15	7.8	7.3	7.5	8.5	8.0	8.2	---	---	---	8.2	8.0	8.1
16	---	---	---	8.5	7.9	8.3	---	---	---	8.3	8.0	8.1
17	---	---	---	8.4	7.5	8.1	8.5	7.7	8.2	8.4	8.1	8.2
18	8.3	7.8	8.1	8.4	7.5	8.1	8.4	7.6	8.1	8.4	8.2	8.3
19	8.3	8.0	8.2	8.2	7.6	7.9	8.2	7.7	8.0	8.4	8.1	8.3
20	8.5	7.7	8.1	8.1	7.8	8.0	8.3	7.9	8.1	8.3	8.1	8.2
21	8.6	8.0	8.4	8.1	7.8	7.9	---	---	---	8.3	7.7	8.0
22	8.8	7.3	8.2	8.0	7.8	7.9	8.3	7.9	8.1	8.2	7.6	8.0
23	7.8	7.1	7.5	8.2	7.7	7.9	8.4	7.6	8.1	8.3	7.9	8.1
24	8.4	7.3	7.8	8.0	7.3	7.6	8.5	8.2	8.4	8.1	7.4	7.8
25	8.0	7.3	7.7	7.9	7.3	7.7	8.5	8.3	8.4	7.9	7.4	7.7
26	8.2	7.1	7.7	8.3	7.5	8.0	8.6	8.3	8.4	8.1	7.7	7.8
27	---	---	---	8.1	7.8	8.0	8.8	8.0	8.4	8.1	7.9	8.0
28	8.8	8.2	8.6	8.3	7.8	8.1	8.5	7.6	8.2	8.2	8.0	8.1
29	8.8	8.2	8.6	8.3	8.0	8.1	8.5	7.6	8.0	8.2	7.9	8.1
30	8.6	8.0	8.3	8.1	7.8	8.0	---	---	---	8.2	7.9	8.1
31	---	---	---	8.2	7.8	8.0	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.5	7.4	8.1

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.1	7.8	7.9	7.7	7.4	7.6	7.8	7.5	7.7	8.1	7.9	8.0
2	8.1	7.6	7.8	7.8	7.4	7.6	7.8	7.6	7.7	8.2	7.9	8.1
3	8.1	7.5	7.8	7.7	7.2	7.5	7.7	7.5	7.6	8.2	8.0	8.1
4	8.1	7.2	7.6	7.6	7.2	7.4	7.9	7.6	7.8	8.2	7.9	8.1
5	7.4	7.1	7.2	7.6	7.2	7.5	7.8	7.5	7.7	8.1	7.7	8.0
6	7.2	7.0	7.1	7.6	7.2	7.4	7.9	7.4	7.7	8.2	7.9	8.1
7	8.3	7.1	7.7	7.5	7.1	7.3	8.0	7.5	7.8	8.1	7.6	7.9
8	8.3	7.7	8.0	7.3	6.9	7.1	7.8	7.3	7.6	8.0	7.5	7.7
9	7.8	7.5	7.6	7.3	6.9	7.1	8.0	7.3	7.7	8.3	7.6	8.0
10	7.8	7.5	7.7	7.6	7.1	7.3	7.9	7.6	7.8	8.2	7.8	8.0
11	8.4	7.7	7.9	7.5	7.3	7.4	7.8	7.6	7.7	---	---	---
12	8.3	7.3	7.8	7.5	7.2	7.4	7.9	7.4	7.7	---	---	---
13	8.4	7.4	7.9	7.5	7.1	7.4	7.9	7.6	7.8	---	---	---
14	7.8	7.2	7.4	7.7	7.0	7.4	7.9	7.7	7.8	---	---	---
15	7.4	7.2	7.3	7.6	7.4	7.5	7.9	7.8	7.8	---	---	---
16	7.5	7.2	7.3	7.6	7.2	7.5	7.9	7.4	7.8	---	---	---
17	7.6	7.2	7.3	7.7	7.3	7.6	---	---	---	---	---	---
18	8.9	7.4	8.2	7.6	7.3	7.5	7.8	7.4	7.6	---	---	---
19	8.9	8.0	8.6	7.7	7.5	7.6	8.0	7.5	7.7	---	---	---
20	8.6	7.3	7.8	7.8	7.4	7.6	7.9	7.7	7.8	---	---	---
21	7.7	7.3	7.4	---	---	---	8.1	7.8	7.8	---	---	---
22	8.8	7.3	7.8	---	---	---	8.2	7.8	8.0	---	---	---
23	8.4	7.5	8.0	7.7	7.5	7.6	8.2	7.8	8.0	---	---	---
24	8.1	7.8	8.0	7.7	7.6	7.6	8.3	8.0	8.1	---	---	---
25	8.1	7.3	7.8	7.6	7.6	7.6	8.3	8.0	8.2	---	---	---
26	---	---	---	7.8	7.6	7.6	8.2	8.1	8.1	---	---	---
27	7.8	7.5	7.7	7.8	7.5	7.7	8.2	8.0	8.1	---	---	---
28	---	---	---	7.8	7.5	7.7	8.2	8.0	8.1	---	---	---
29	7.9	7.5	7.6	7.9	7.4	7.6	8.2	8.0	8.1	---	---	---
30	7.8	7.4	7.6	7.8	7.6	7.7	8.1	7.9	8.1	---	---	---
31	7.7	7.5	7.6	---	---	---	8.0	7.9	7.9	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	8.4	7.8	8.1	8.1	7.4	7.6	7.6	6.9	7.1
2	---	---	---	8.2	7.6	7.9	8.3	7.5	7.9	7.8	6.7	7.1
3	---	---	---	---	---	---	8.0	7.4	7.7	7.5	6.8	6.9
4	---	---	---	---	---	---	8.8	7.5	7.9	7.5	6.7	6.9
5	---	---	---	---	---	---	9.0	8.0	8.5	7.0	6.6	6.7
6	---	---	---	---	---	---	8.6	7.7	8.4	7.8	6.7	7.2
7	---	---	---	---	---	---	8.7	7.4	8.1	7.4	6.9	7.2
8	---	---	---	---	---	---	8.4	7.2	7.6	7.5	6.9	7.2
9	---	---	---	---	---	---	7.6	7.2	7.4	7.6	6.8	7.2
10	---	---	---	---	---	---	8.8	7.2	7.5	7.5	6.8	7.2
11	---	---	---	---	---	---	8.4	7.2	8.0	7.5	6.9	7.1
12	8.2	8.1	8.1	---	---	---	7.8	7.1	7.3	7.5	6.9	7.2
13	8.3	8.0	8.1	8.1	7.7	7.9	8.4	7.2	7.7	7.6	7.0	7.3
14	---	---	---	---	---	---	8.1	7.2	7.7	7.7	7.2	7.4
15	---	---	---	8.3	7.6	8.0	7.9	7.0	7.3	7.5	7.1	7.2
16	---	---	---	8.2	7.7	8.0	8.1	7.3	7.7	7.8	7.1	7.3
17	---	---	---	8.7	7.6	8.2	7.9	7.4	7.7	7.4	7.2	7.3
18	8.1	7.9	8.0	8.8	8.4	8.7	7.7	7.5	7.6	7.5	7.1	7.3
19	---	---	---	8.7	8.1	8.4	7.7	7.3	7.5	7.6	7.0	7.3
20	---	---	---	8.4	7.9	8.0	7.8	7.3	7.5	7.8	6.9	7.2
21	---	---	---	8.2	7.9	8.0	7.8	7.2	7.5	7.5	6.9	7.2
22	---	---	---	8.2	8.0	8.1	7.7	7.2	7.4	7.7	7.0	7.4
23	8.2	7.7	8.0	8.4	7.9	8.1	7.8	7.1	7.4	7.6	7.1	7.4
24	8.3	7.9	8.1	8.6	7.8	8.2	7.5	7.1	7.3	7.7	6.9	7.3
25	8.1	7.8	8.1	8.3	7.9	8.1	7.7	7.3	7.5	7.8	6.9	7.2
26	---	---	---	8.4	7.7	8.1	7.6	7.4	7.5	7.5	6.9	7.1
27	8.2	7.9	8.1	8.5	7.8	8.2	7.6	7.0	7.3	7.6	6.8	7.1
28	8.1	8.0	8.1	8.6	7.9	8.3	7.8	7.2	7.5	7.5	7.0	7.4
29	---	---	---	8.7	8.1	8.4	7.4	7.3	7.4	7.5	7.0	7.3
30	---	---	---	8.8	7.8	8.3	7.5	7.1	7.3	8.0	7.0	7.4
31	---	---	---	8.6	7.5	7.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	9.0	7.0	7.6	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.3	6.9	7.0	8.0	7.7	7.9	8.1	7.2	7.4
2	---	---	---	7.7	6.9	7.2	8.1	7.8	7.9	8.2	7.3	7.6
3	7.7	7.2	7.4	7.4	7.0	7.2	8.0	7.6	7.9	8.1	7.3	7.9
4	7.6	6.9	7.3	7.6	6.8	7.2	8.1	7.2	7.8	7.8	7.2	7.5
5	7.6	6.7	7.1	7.6	7.1	7.4	8.0	7.1	7.5	8.2	7.4	7.8
6	7.6	6.7	7.1	8.0	7.2	7.5	7.9	7.1	7.3	8.1	7.5	7.9
7	7.7	6.8	7.3	7.9	7.2	7.6	7.3	7.0	7.1	8.3	7.6	8.0
8	7.4	6.8	7.1	7.9	7.3	7.7	7.2	7.0	7.1	8.2	7.5	8.0
9	7.4	6.8	6.9	---	---	---	7.2	7.1	7.2	8.2	7.6	8.0
10	7.2	6.6	6.7	---	---	---	7.3	7.2	7.2	8.0	7.3	7.7
11	6.8	6.6	6.7	---	---	---	7.4	7.2	7.3	8.3	7.4	7.8
12	7.1	6.7	6.8	---	---	---	7.4	7.2	7.3	8.2	7.4	8.0
13	7.2	6.8	6.9	8.1	7.3	8.0	7.6	7.2	7.3	8.1	7.6	7.9
14	7.5	6.9	7.1	8.4	7.9	8.1	8.0	7.2	7.5	7.9	7.6	7.8
15	7.6	7.1	7.3	8.3	7.5	8.0	---	---	---	7.9	7.8	7.8
16	---	---	---	8.3	7.2	7.6	---	---	---	8.0	7.8	7.8
17	---	---	---	7.8	7.2	7.5	7.5	7.1	7.2	8.0	7.6	7.8
18	7.9	7.0	7.4	8.3	7.4	7.8	8.1	7.1	7.4	7.9	7.5	7.7
19	8.0	7.0	7.5	8.2	7.3	7.8	7.9	7.2	7.5	8.0	7.4	7.7
20	7.9	6.7	7.2	8.2	8.0	8.1	8.1	7.2	7.4	7.9	7.6	7.8
21	7.6	6.7	6.9	8.2	7.9	8.1	---	---	---	8.0	7.3	7.7
22	7.1	6.7	6.8	8.2	7.9	8.1	8.0	7.3	7.5	7.8	7.1	7.5
23	7.2	6.7	6.9	8.1	7.0	7.8	8.1	7.3	7.7	7.8	7.2	7.5
24	7.1	6.7	6.9	7.9	7.0	7.5	7.9	7.2	7.4	7.7	7.2	7.4
25	7.8	6.9	7.4	8.1	7.5	7.7	8.5	7.2	8.0	7.9	7.3	7.7
26	7.9	6.9	7.3	8.1	7.2	7.8	8.5	7.3	7.9	8.1	7.6	7.9
27	---	---	---	7.9	7.5	7.8	7.8	7.1	7.4	8.0	7.6	7.9
28	8.1	6.8	7.2	8.0	7.6	7.8	7.9	7.2	7.4	8.3	7.5	8.0
29	7.3	6.9	7.0	8.1	7.6	7.9	8.0	7.1	7.4	8.2	8.0	8.1
30	7.2	6.9	7.0	7.9	7.6	7.8	---	---	---	8.2	8.0	8.1
31	---	---	---	8.0	7.6	7.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	8.3	7.1	7.8

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.3	20.8	21.0	16.8	15.5	16.3	10.2	9.2	9.7	3.7	2.3	3.1
2	21.6	20.5	21.0	16.6	14.9	16.1	9.7	9.0	9.4	3.4	2.2	3.0
3	22.4	20.9	21.6	16.6	14.9	16.0	9.0	7.1	8.3	3.8	2.1	2.7
4	23.7	21.3	22.3	17.1	15.3	16.3	7.3	6.3	6.8	2.9	1.9	2.4
5	24.3	22.0	22.9	17.0	16.2	16.5	7.1	5.6	6.3	3.8	1.0	2.5
6	24.5	23.0	23.7	16.5	15.2	15.8	6.9	5.9	6.5	3.4	2.5	3.0
7	24.3	22.6	23.4	16.2	14.6	15.5	7.2	6.2	6.6	4.0	2.0	3.3
8	22.6	19.6	21.2	17.5	15.6	16.5	8.0	5.9	7.0	4.7	3.2	4.0
9	19.8	16.0	18.0	18.0	16.7	17.4	7.6	6.8	7.3	4.6	3.8	4.3
10	18.0	15.2	16.3	18.0	17.0	17.5	7.5	7.2	7.3	4.5	3.2	3.6
11	18.7	15.9	17.0	17.3	16.2	16.7	8.1	7.3	7.6	4.8	2.5	3.9
12	18.6	16.6	17.4	16.2	15.2	15.7	8.8	7.8	8.4	5.2	4.6	4.9
13	18.4	17.3	17.8	15.9	14.6	15.2	8.7	7.9	8.3	5.9	4.9	5.4
14	18.8	17.5	18.0	15.4	14.9	15.2	11.1	8.2	9.8	7.8	5.5	6.2
15	18.9	17.6	18.3	15.2	13.2	14.4	11.0	9.8	10.2	9.6	6.5	7.6
16	19.8	17.9	18.9	14.2	12.3	13.6	11.0	9.9	10.2	8.7	6.5	7.5
17	20.2	18.7	19.5	14.1	13.6	13.9	---	---	---	8.0	6.7	7.5
18	20.0	19.2	19.7	13.8	12.4	13.2	---	---	---	8.2	7.1	7.4
19	20.6	19.3	19.8	13.0	11.8	12.6	9.9	8.9	9.4	9.8	7.0	7.9
20	20.2	19.1	19.8	12.3	11.3	11.8	9.4	7.9	8.7	11.0	8.5	9.3
21	20.9	19.2	20.0	11.5	10.3	11.0	8.5	6.8	7.8	8.9	7.8	8.4
22	20.8	19.3	20.0	10.9	8.1	9.6	7.7	6.8	7.4	7.9	7.2	7.7
23	19.8	19.0	19.4	9.6	7.1	8.9	7.4	5.3	6.3	7.5	6.8	7.1
24	19.7	18.6	19.0	9.3	8.7	8.9	6.0	4.5	5.5	8.1	6.3	7.0
25	19.3	18.5	18.9	9.6	8.5	9.0	5.4	4.2	4.9	7.0	6.3	6.7
26	---	---	---	11.1	9.4	10.3	4.4	3.2	3.8	6.8	5.7	6.1
27	19.0	18.6	18.7	11.1	9.8	10.3	3.9	2.8	3.4	6.8	5.6	6.2
28	---	---	---	11.1	9.9	10.3	4.1	3.2	3.7	8.5	5.9	6.5
29	18.8	17.5	18.3	10.9	9.8	10.3	3.9	3.0	3.4	---	---	---
30	17.8	17.0	17.5	10.4	9.8	10.1	3.8	2.7	3.5	8.6	6.5	7.3
31	17.3	16.2	16.9	---	---	---	3.8	2.0	3.2	9.7	7.5	8.3
MONTH	---	---	---	18.0	7.1	13.5	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	9.2	8.1	8.6	12.1	10.7	11.5	14.5	12.9	14.2	19.9	17.4	18.1
2	9.1	8.6	9.0	13.5	11.5	12.2	13.5	12.5	13.1	21.0	18.2	19.0
3	9.1	8.1	8.6	---	---	---	13.3	12.8	13.0	21.8	19.0	20.2
4	8.1	7.9	8.0	---	---	---	14.0	13.1	13.4	23.0	18.7	21.4
5	8.8	8.1	8.4	---	---	---	14.2	13.0	13.6	24.4	21.0	22.3
6	9.4	8.0	8.6	---	---	---	15.4	13.6	14.5	23.0	19.7	21.2
7	9.5	8.3	8.9	---	---	---	18.2	14.7	15.6	20.0	18.6	19.1
8	10.7	8.6	9.5	---	---	---	18.5	16.0	17.3	20.0	18.5	19.2
9	---	---	---	---	---	---	20.3	17.3	18.3	21.5	18.9	20.0
10	---	---	---	---	---	---	20.3	16.8	18.6	21.7	19.9	20.6
11	---	---	---	---	---	---	19.6	17.2	18.6	22.8	20.0	21.2
12	9.5	8.9	9.1	---	---	---	20.0	19.0	19.5	23.0	20.0	21.2
13	9.6	9.1	9.4	12.9	10.8	11.9	21.4	18.9	20.1	22.3	20.9	21.4
14	---	---	---	---	---	---	21.0	19.5	20.4	22.3	21.0	21.7
15	---	---	---	13.3	12.6	12.9	20.4	19.8	20.1	21.9	21.1	21.4
16	---	---	---	13.6	12.6	13.1	19.9	19.1	19.4	21.6	20.7	21.1
17	---	---	---	15.0	13.2	14.0	19.3	16.9	18.3	21.0	20.0	20.4
18	11.4	10.3	10.8	14.9	13.6	14.4	16.9	15.3	16.1	21.8	20.1	20.7
19	---	---	---	13.7	12.4	13.1	15.8	13.9	14.9	23.7	20.7	22.0
20	---	---	---	12.7	11.5	11.8	16.2	14.7	15.5	24.2	21.8	22.8
21	---	---	---	12.9	11.5	12.3	17.4	15.5	16.4	23.1	21.5	22.9
22	---	---	---	12.7	12.1	12.4	19.2	16.5	17.5	24.7	22.5	23.1
23	11.4	10.1	10.6	13.9	11.9	12.5	20.5	17.5	18.6	23.6	23.0	23.3
24	10.9	9.6	10.4	13.5	12.1	12.8	19.9	18.6	19.2	24.7	22.5	23.3
25	12.4	10.2	11.1	13.0	11.6	12.4	20.3	17.6	18.8	24.8	22.8	24.1
26	---	---	---	12.0	11.3	11.8	17.6	16.1	16.9	24.7	23.6	24.2
27	12.7	11.9	12.3	11.6	10.6	11.1	18.8	15.4	16.6	24.5	23.6	24.0
28	12.3	11.7	12.1	11.5	10.5	11.0	18.9	15.9	17.2	24.0	23.5	23.8
29	---	---	---	13.1	11.1	11.6	17.3	16.7	17.0	23.7	23.1	23.5
30	---	---	---	14.4	12.1	13.1	18.6	16.8	17.6	24.8	22.9	23.6
31	---	---	---	15.6	13.6	14.4	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	21.4	12.5	17.0	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	29.5	28.0	28.8	26.3	25.5	25.9	27.3	26.6	27.0
2	---	---	---	28.3	27.0	27.8	26.5	25.5	26.0	27.2	26.4	26.8
3	25.7	24.0	24.8	27.1	26.6	26.9	27.3	25.8	26.3	26.9	26.1	26.6
4	26.1	24.7	25.3	28.7	26.4	27.2	28.1	25.9	26.9	27.0	26.1	26.5
5	27.7	25.1	25.9	27.6	26.8	27.3	28.3	26.3	27.1	27.6	25.5	26.3
6	27.7	26.4	27.0	27.7	26.5	27.1	29.3	26.9	27.9	26.5	25.6	26.1
7	27.9	26.6	27.1	27.1	25.6	26.4	30.2	27.5	28.5	27.1	25.9	26.5
8	27.1	26.2	26.5	26.5	25.9	26.2	30.9	27.6	29.1	26.8	25.9	26.4
9	27.2	25.7	26.2	---	---	---	30.8	28.1	29.5	27.0	26.2	26.6
10	27.5	25.9	26.5	---	---	---	29.8	27.9	28.8	27.8	26.3	26.9
11	28.7	26.1	27.1	---	---	---	29.8	27.6	28.3	27.5	26.6	27.1
12	28.3	26.6	27.5	---	---	---	29.0	27.8	28.3	26.8	26.1	26.5
13	28.1	25.8	27.0	27.7	26.4	27.0	29.9	28.0	28.7	26.4	25.6	26.1
14	26.5	25.2	25.8	27.3	25.8	26.4	28.6	27.4	28.0	26.2	25.3	25.9
15	25.9	25.1	25.6	28.2	26.2	26.9	---	---	---	25.3	23.1	24.2
16	---	---	---	28.5	26.5	27.3	---	---	---	23.8	22.4	23.0
17	---	---	---	28.0	26.5	27.0	29.8	27.5	28.3	23.7	21.9	22.6
18	27.4	25.6	26.5	29.2	26.3	27.5	29.7	27.9	28.6	24.3	22.2	23.2
19	27.5	26.4	27.0	27.8	26.8	27.2	29.3	27.6	28.5	24.0	22.9	23.5
20	28.3	26.3	27.0	27.3	26.4	26.9	28.9	28.0	28.4	24.0	23.3	23.6
21	29.2	26.8	27.5	26.8	25.8	26.3	---	---	---	25.2	23.1	23.8
22	28.5	26.9	27.6	27.2	25.9	26.5	28.9	27.8	28.2	25.8	23.7	24.6
23	27.6	26.8	27.3	27.2	26.4	26.8	30.2	27.1	28.0	26.9	24.6	25.6
24	27.2	26.1	26.7	28.1	26.6	27.0	28.2	27.3	27.8	26.7	24.2	25.1
25	27.7	26.2	26.8	28.6	27.0	27.6	27.6	26.7	27.1	24.7	23.9	24.3
26	28.3	26.7	27.3	28.3	27.4	27.9	27.0	25.9	26.4	23.9	23.0	23.4
27	---	---	---	27.8	26.8	27.4	27.9	25.8	26.7	23.2	21.9	22.6
28	31.3	28.4	29.3	26.8	26.0	26.5	28.3	27.0	27.5	23.0	21.6	22.3
29	30.6	28.3	29.3	26.8	26.0	26.4	28.0	27.2	27.5	22.1	20.7	21.4
30	30.2	28.0	29.1	26.4	25.8	26.2	---	---	---	20.9	19.2	20.0
31	---	---	---	26.5	25.2	25.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	27.8	19.2	24.8

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.5	20.8	21.1	17.2	16.2	16.6	10.2	9.4	9.8	3.7	2.8	3.2
2	21.6	20.5	20.9	16.7	15.6	16.2	9.9	9.0	9.4	3.5	2.8	3.2
3	21.8	21.1	21.4	16.5	15.7	16.1	9.1	7.1	8.2	3.5	2.4	2.8
4	21.9	21.2	21.5	16.6	16.0	16.4	7.8	6.4	7.0	3.6	2.3	2.9
5	21.9	21.5	21.6	16.7	16.2	16.5	7.8	6.3	7.1	3.8	3.0	3.5
6	22.0	21.5	21.6	16.5	15.6	16.0	7.7	6.4	7.0	3.7	2.8	3.2
7	24.0	21.6	22.7	16.6	15.8	16.4	7.5	6.2	6.8	4.1	3.5	3.7
8	22.7	19.8	21.3	16.7	16.5	16.6	8.1	7.1	7.6	4.4	3.6	3.9
9	19.8	16.8	18.4	16.8	16.4	16.6	8.0	6.8	7.5	4.5	3.9	4.2
10	18.3	15.5	16.7	17.8	16.5	17.3	7.7	7.2	7.4	4.1	3.3	3.7
11	18.3	15.9	17.1	17.3	16.2	16.7	7.7	7.3	7.5	4.0	3.6	3.8
12	18.4	16.6	17.5	16.4	15.4	15.9	8.7	7.6	8.2	5.0	3.7	4.1
13	18.0	17.5	17.8	16.0	15.0	15.7	8.7	7.9	8.2	5.7	4.8	5.2
14	18.4	17.8	18.1	16.3	15.2	15.7	10.7	8.2	9.5	5.6	4.9	5.2
15	18.4	17.8	18.1	15.4	14.3	14.7	10.9	9.7	10.1	5.8	5.1	5.3
16	18.3	17.9	18.1	14.9	14.1	14.5	10.2	9.4	9.9	6.8	5.0	6.0
17	19.0	18.0	18.3	14.9	13.6	14.0	---	---	---	6.9	5.5	6.5
18	20.0	18.6	19.4	14.1	13.1	13.6	10.4	9.7	10.0	7.5	6.4	7.0
19	20.4	19.2	19.6	13.3	11.8	12.6	9.9	9.0	9.5	9.2	5.6	7.4
20	19.9	18.5	19.4	12.9	11.4	11.9	9.4	8.5	8.9	10.4	6.7	8.9
21	19.6	18.5	19.2	---	---	---	8.8	7.6	8.1	8.9	8.1	8.4
22	20.4	18.8	19.5	---	---	---	8.3	7.4	7.7	8.1	7.3	7.7
23	19.8	19.1	19.4	10.0	8.5	9.4	7.9	5.4	6.7	7.5	6.8	7.1
24	19.4	18.9	19.2	9.2	8.6	8.9	6.3	5.3	5.7	7.3	6.3	7.0
25	19.2	18.5	18.9	9.5	8.7	9.0	5.6	4.5	5.1	7.4	6.3	6.8
26	---	---	---	10.4	9.3	9.9	4.6	3.3	3.9	6.7	5.6	6.2
27	18.9	18.5	18.7	10.6	9.8	10.1	4.7	3.5	4.0	6.7	5.8	6.3
28	---	---	---	10.4	9.8	10.1	4.4	3.5	4.0	6.7	5.9	6.2
29	18.9	18.3	18.6	10.5	9.9	10.2	4.1	3.1	3.5	---	---	---
30	18.4	17.3	17.8	10.4	9.8	10.1	4.2	3.5	3.8	8.6	6.2	7.1
31	17.7	16.5	17.1	---	---	---	4.0	2.6	3.4	9.5	7.7	8.2
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.8	8.0	8.5	11.9	10.9	11.6	14.2	12.6	13.1	18.4	17.1	17.6
2	9.1	8.1	8.8	12.4	11.7	12.0	13.6	12.6	13.1	18.8	17.1	17.9
3	8.9	8.1	8.5	---	---	---	13.5	12.8	13.2	19.1	16.9	17.6
4	8.4	7.9	8.0	---	---	---	13.9	12.9	13.4	20.0	17.1	18.0
5	8.7	8.1	8.3	---	---	---	14.3	13.1	13.7	19.1	16.9	17.4
6	8.7	8.1	8.4	---	---	---	15.4	13.9	14.4	21.9	17.1	19.6
7	9.3	8.3	8.7	---	---	---	16.0	14.3	15.1	19.5	18.6	18.9
8	10.1	8.4	8.9	---	---	---	16.4	13.5	14.8	19.6	18.4	18.9
9	---	---	---	---	---	---	16.0	13.5	14.4	21.0	19.0	19.6
10	---	---	---	---	---	---	20.0	13.8	15.6	20.9	19.1	20.0
11	---	---	---	---	---	---	19.4	16.1	18.2	20.9	19.2	20.0
12	9.5	8.8	9.2	---	---	---	19.2	15.1	17.1	21.3	19.6	20.5
13	9.6	9.1	9.4	12.9	10.9	11.9	21.1	15.7	19.2	22.3	20.5	21.4
14	---	---	---	---	---	---	20.5	17.8	19.7	22.3	21.1	21.7
15	---	---	---	13.1	11.7	12.6	20.1	16.0	18.4	21.8	21.4	21.6
16	---	---	---	13.3	12.4	12.8	19.6	18.6	19.4	21.6	21.0	21.3
17	---	---	---	14.8	12.6	13.5	19.5	17.2	18.4	21.0	20.1	20.5
18	11.4	10.5	10.9	14.9	14.0	14.4	17.3	15.7	16.3	21.3	20.2	20.5
19	---	---	---	14.0	12.5	13.2	16.0	14.4	15.3	22.6	20.2	21.3
20	---	---	---	12.8	11.6	11.9	16.3	15.1	15.6	23.3	20.6	21.8
21	---	---	---	12.6	11.6	12.2	17.3	15.7	16.4	22.8	20.7	21.8
22	---	---	---	12.8	12.2	12.4	18.2	16.8	17.2	24.2	22.1	22.9
23	10.9	10.1	10.5	13.7	12.0	12.5	19.0	16.5	17.7	23.5	22.8	23.2
24	11.0	9.8	10.5	13.4	12.2	12.7	19.5	16.6	17.8	23.4	22.6	22.9
25	12.4	10.4	11.0	13.0	11.5	12.4	19.7	17.7	18.8	24.4	22.8	23.3
26	---	---	---	12.2	11.3	11.8	17.8	16.6	17.0	24.2	22.9	23.4
27	12.8	11.9	12.3	11.7	10.6	11.2	17.5	16.4	16.9	24.2	22.9	23.7
28	12.6	11.8	12.2	11.6	10.7	11.2	18.1	16.2	17.1	24.0	23.5	23.7
29	---	---	---	13.0	11.1	11.7	17.4	16.8	17.1	23.7	23.3	23.5
30	---	---	---	14.3	12.2	13.1	18.4	16.8	17.3	24.3	23.0	23.5
31	---	---	---	13.8	12.5	12.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	21.1	12.6	16.4	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	28.5	26.8	27.5	26.2	25.5	25.9	27.2	26.8	26.9
2	---	---	---	28.1	26.9	27.7	26.5	25.5	25.9	27.1	26.6	26.9
3	25.5	24.0	24.6	27.0	26.6	26.9	26.5	25.6	26.1	26.9	26.1	26.6
4	25.7	24.2	24.9	27.9	26.4	27.1	26.8	25.9	26.4	26.8	26.4	26.6
5	26.1	24.0	25.0	27.6	26.9	27.2	26.9	26.1	26.3	26.7	26.0	26.4
6	27.3	24.2	26.0	27.4	26.7	27.0	26.9	26.1	26.4	26.5	25.9	26.3
7	27.7	25.2	26.7	27.0	25.7	26.4	26.7	26.1	26.3	27.1	25.7	26.3
8	27.0	25.2	26.2	26.5	25.9	26.2	26.9	26.1	26.3	26.8	26.0	26.4
9	26.1	24.9	25.7	---	---	---	27.0	26.0	26.4	27.1	26.2	26.6
10	26.0	24.9	25.3	---	---	---	28.2	26.2	26.8	27.0	26.7	26.8
11	25.6	24.6	25.1	---	---	---	28.1	26.5	27.0	27.2	26.6	26.9
12	26.3	24.3	25.0	---	---	---	28.1	26.6	27.4	26.9	26.1	26.5
13	26.3	24.5	25.3	---	---	---	28.4	27.1	27.5	26.6	25.6	26.2
14	26.4	25.1	25.5	27.2	25.5	26.3	28.3	27.6	27.8	26.2	25.3	25.9
15	25.8	25.0	25.5	26.8	26.2	26.5	---	---	---	25.3	23.1	24.2
16	---	---	---	26.9	26.0	26.3	---	---	---	23.8	22.6	23.1
17	---	---	---	26.7	25.9	26.2	28.1	27.5	27.8	23.4	22.4	22.9
18	27.1	25.7	26.2	27.7	26.2	26.9	29.0	27.6	28.1	22.8	22.3	22.6
19	27.4	26.2	26.7	27.5	26.7	27.1	28.8	27.7	28.2	23.7	22.4	22.8
20	27.1	26.0	26.6	27.2	26.4	26.8	28.6	28.0	28.2	23.9	23.0	23.4
21	27.2	26.0	26.5	26.8	25.8	26.3	---	---	---	23.8	22.9	23.4
22	27.4	26.2	26.6	27.1	25.8	26.5	28.3	27.9	28.1	23.7	23.0	23.3
23	27.6	26.2	26.8	27.0	26.5	26.7	28.3	27.5	28.0	24.5	23.1	23.6
24	27.1	26.4	26.8	27.7	26.4	26.9	28.1	27.7	27.8	24.7	23.2	23.8
25	27.5	26.3	26.7	28.3	27.0	27.5	27.8	26.9	27.3	24.6	23.7	24.2
26	27.8	26.6	27.0	28.3	27.4	27.8	27.2	26.0	26.6	24.1	23.2	23.5
27	---	---	---	27.8	26.8	27.4	27.1	26.3	26.8	23.2	22.1	22.7
28	28.3	26.7	27.4	26.8	26.0	26.4	27.5	27.0	27.1	23.0	21.8	22.5
29	28.2	26.8	27.4	26.7	26.0	26.3	27.4	27.0	27.1	22.4	20.8	21.5
30	28.0	26.8	27.3	26.4	25.8	26.2	---	---	---	21.0	19.2	20.1
31	---	---	---	26.5	25.2	25.8	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	27.2	19.2	24.6

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.9	8.0	8.3	9.2	8.2	8.7	10.7	9.9	10.3	12.3	11.3	11.7
2	9.7	7.9	8.6	9.3	8.3	8.8	10.6	10.1	10.3	12.7	11.9	12.3
3	10.3	8.1	9.1	9.4	8.1	8.7	10.7	10.1	10.3	13.1	11.9	12.5
4	11.2	8.6	9.5	9.4	8.0	8.7	11.7	10.6	11.1	13.2	12.5	12.8
5	11.8	8.1	9.6	9.3	8.1	8.6	12.3	11.2	11.7	13.5	11.7	12.8
6	11.6	8.3	9.7	9.6	8.1	8.6	12.3	11.6	11.9	13.1	12.0	12.5
7	10.0	8.0	9.0	9.4	7.8	8.7	12.6	11.8	12.2	13.3	12.7	13.0
8	8.9	7.6	8.1	10.2	7.8	8.5	12.5	11.9	12.2	13.7	12.8	13.2
9	9.1	7.9	8.3	9.6	7.3	8.5	12.3	11.5	11.9	13.6	12.4	13.1
10	9.5	7.9	8.7	8.9	6.6	7.9	12.0	11.4	11.7	12.9	11.9	12.3
11	11.0	8.0	9.2	8.8	8.0	8.4	12.0	11.3	11.5	13.7	12.2	13.1
12	11.2	8.4	10.2	9.2	8.2	8.5	11.7	10.9	11.2	13.8	13.0	13.4
13	12.7	10.2	11.5	10.3	8.3	9.0	11.5	10.6	11.2	13.1	12.5	12.9
14	12.7	11.0	11.6	10.0	8.6	9.1	11.3	10.6	11.0	13.4	12.3	12.7
15	12.2	10.5	11.5	9.5	8.5	9.0	11.2	10.6	10.8	13.8	10.8	12.8
16	13.0	10.8	11.9	10.1	8.7	9.4	11.1	10.6	10.8	13.6	12.2	13.0
17	12.2	10.2	11.4	9.9	8.9	9.2	---	---	---	13.4	12.6	13.0
18	12.0	10.4	11.3	9.9	8.6	9.1	---	---	---	13.9	12.4	12.9
19	12.1	9.7	10.5	9.6	9.0	9.2	10.1	8.6	9.3	13.0	11.2	12.5
20	11.7	9.3	10.4	10.1	8.9	9.6	9.6	8.8	9.0	11.3	10.1	10.7
21	11.1	9.1	10.1	---	---	---	10.9	9.1	9.7	10.8	9.8	10.3
22	10.2	8.0	9.1	10.6	9.4	10.0	11.0	9.7	10.1	10.9	10.0	10.4
23	9.2	7.9	8.6	10.9	9.9	10.3	10.9	9.7	10.4	10.8	10.3	10.5
24	---	---	---	10.6	10.0	10.3	12.2	10.3	11.0	12.6	10.4	11.4
25	---	---	---	10.6	10.1	10.4	11.9	10.9	11.3	12.2	10.9	11.6
26	---	---	---	10.9	9.6	10.4	11.9	11.0	11.4	12.2	10.7	11.3
27	8.3	7.5	7.9	11.0	10.3	10.6	12.5	11.5	11.9	11.8	10.8	11.2
28	---	---	---	10.7	10.1	10.4	12.2	11.5	11.8	11.9	10.7	11.1
29	9.2	7.7	8.3	11.8	10.1	10.9	12.2	11.5	11.8	---	---	---
30	8.9	7.7	8.4	10.5	9.8	10.1	12.2	11.5	11.9	11.6	9.1	10.1
31	8.9	8.1	8.5	---	---	---	12.3	11.2	11.5	10.3	9.3	9.8
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.2	9.1	9.7	---	---	---	11.8	9.8	10.9	10.3	7.4	8.4
2	10.1	9.5	9.8	---	---	---	11.6	9.7	10.6	12.1	7.4	9.4
3	10.1	9.5	9.8	---	---	---	11.4	10.7	11.0	10.8	8.6	9.6
4	9.7	9.3	9.5	---	---	---	12.8	10.5	11.4	9.8	8.2	9.2
5	9.6	9.0	9.4	---	---	---	13.7	11.1	12.0	9.8	7.5	9.1
6	9.9	9.0	9.5	---	---	---	12.7	10.9	11.9	8.6	7.2	7.9
7	10.1	9.4	9.7	---	---	---	13.6	10.2	11.5	8.3	7.2	7.7
8	---	---	---	---	---	---	12.8	11.3	11.9	8.7	7.5	8.1
9	---	---	---	---	---	---	12.6	10.1	11.1	8.7	6.3	8.0
10	---	---	---	---	---	---	12.3	8.3	10.4	9.3	7.5	8.4
11	---	---	---	---	---	---	11.5	9.1	10.3	9.1	7.2	8.4
12	---	---	---	---	---	---	10.8	8.7	9.9	8.3	5.9	7.3
13	---	---	---	10.6	9.3	10.1	10.4	8.3	9.3	8.1	6.5	7.4
14	---	---	---	---	---	---	10.5	8.3	9.3	8.3	7.0	7.5
15	---	---	---	10.9	10.0	10.6	10.2	8.5	9.5	8.3	6.0	7.1
16	---	---	---	11.0	9.9	10.4	9.1	8.0	8.5	8.8	6.8	7.7
17	---	---	---	12.5	10.5	11.5	9.2	7.8	8.3	7.4	6.6	7.1
18	---	---	---	12.5	11.3	11.9	8.6	7.5	8.0	8.7	6.1	7.2
19	---	---	---	11.6	10.0	10.7	9.2	7.8	8.5	8.7	6.7	7.7
20	---	---	---	10.6	9.7	10.0	9.1	7.7	8.5	8.3	5.9	7.5
21	---	---	---	10.6	9.6	10.0	8.8	7.1	8.2	7.9	4.7	7.2
22	---	---	---	10.6	9.9	10.2	8.6	7.6	8.1	7.7	6.0	6.9
23	---	---	---	11.3	9.9	10.5	9.2	6.7	8.2	7.5	5.9	6.9
24	---	---	---	12.3	10.1	11.1	8.6	6.2	7.9	8.7	6.2	7.4
25	---	---	---	10.7	10.1	10.4	---	---	---	8.4	6.1	7.6
26	---	---	---	11.3	9.9	10.7	---	---	---	7.6	5.5	6.5
27	---	---	---	12.2	10.6	11.5	---	---	---	7.6	5.1	6.7
28	---	---	---	12.0	11.4	11.7	9.3	7.6	8.3	6.8	5.7	6.2
29	---	---	---	12.3	10.8	11.6	7.9	7.6	7.7	7.2	5.4	6.4
30	---	---	---	13.0	10.4	11.5	8.5	7.4	7.8	8.8	5.1	7.6
31	---	---	---	13.2	10.5	12.1	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	7.0	4.2	6.0	7.4	6.2	6.9	8.5	5.5	6.9
2	---	---	---	6.2	2.9	4.5	7.2	5.9	6.4	8.3	6.0	6.9
3	7.6	5.3	6.4	6.3	4.6	5.4	7.2	5.6	6.4	8.0	5.1	6.8
4	7.2	5.7	6.4	7.6	4.6	6.1	7.9	5.7	6.9	9.5	4.8	6.7
5	9.8	5.1	6.8	6.8	5.3	6.3	7.7	5.6	6.9	9.8	6.3	8.3
6	8.5	6.2	7.3	9.2	5.4	6.6	10.2	6.1	8.2	7.3	6.1	6.8
7	8.6	6.8	7.6	8.5	5.7	7.0	9.0	6.6	7.9	8.1	5.8	6.8
8	8.7	5.9	7.5	8.4	6.8	7.5	8.0	4.9	7.1	7.2	5.6	6.3
9	8.9	7.0	7.7	---	---	---	7.6	3.8	5.9	7.5	4.5	5.8
10	9.4	6.5	7.9	---	---	---	5.2	.9	3.8	7.1	4.2	5.4
11	9.5	5.8	7.3	---	---	---	5.9	1.4	3.7	9.0	6.3	7.5
12	8.8	5.6	7.3	---	---	---	6.7	3.5	5.3	8.8	7.2	7.9
13	6.7	2.4	5.5	7.2	5.9	6.6	7.2	3.8	6.2	---	---	---
14	7.2	2.5	5.2	8.0	5.5	6.5	7.9	4.5	6.1	8.0	5.6	7.0
15	8.2	5.3	6.7	9.1	6.0	7.4	---	---	---	8.1	6.9	7.5
16	---	---	---	9.7	5.2	7.4	---	---	---	8.8	7.4	8.0
17	---	---	---	8.4	3.8	7.1	10.2	5.0	8.4	10.0	7.1	8.7
18	9.6	8.0	8.9	9.2	4.4	7.4	9.1	5.3	7.7	10.4	7.9	9.0
19	9.6	6.3	8.5	8.3	5.2	7.0	8.8	6.0	7.4	9.6	7.8	8.9
20	10.2	6.4	7.9	7.4	6.3	6.9	9.6	6.5	7.8	9.1	7.6	8.3
21	9.5	6.0	8.3	7.4	6.3	6.8	---	---	---	9.1	6.3	7.9
22	10.0	4.2	7.2	7.9	6.4	7.2	8.9	6.6	7.9	9.8	5.6	8.1
23	6.0	2.8	4.7	8.7	6.0	7.4	8.4	4.2	7.0	9.8	7.3	8.5
24	7.8	4.2	5.8	7.4	4.9	6.1	7.6	6.0	6.8	8.5	4.7	6.4
25	7.5	4.6	6.0	7.4	4.8	6.4	7.8	5.7	6.8	7.9	4.4	6.7
26	7.8	3.9	5.7	7.9	6.0	6.8	8.5	6.4	7.3	9.2	7.3	8.1
27	---	---	---	7.0	5.5	6.5	9.6	5.9	7.0	9.7	7.9	8.7
28	11.3	7.5	9.6	8.2	5.6	6.6	7.9	3.5	6.3	---	---	---
29	11.5	6.5	9.5	8.2	5.8	6.6	7.2	4.2	5.6	---	---	---
30	9.3	6.5	8.1	7.0	5.6	6.4	---	---	---	---	---	---
31	---	---	---	7.7	6.0	6.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.9	8.0	8.3	8.1	6.7	7.5	12.2	10.1	11.5	13.0	11.9	12.4
2	9.3	7.1	8.3	8.5	6.8	7.8	12.4	11.5	12.0	13.5	11.9	13.0
3	9.1	6.7	8.0	8.5	5.8	7.6	12.9	11.9	12.2	13.4	12.2	12.9
4	9.2	4.0	7.0	8.2	5.2	6.9	13.8	12.1	13.1	13.5	11.1	12.8
5	6.2	3.6	4.6	8.4	5.3	7.6	13.9	11.5	12.7	13.1	10.5	12.0
6	5.1	2.5	3.4	8.6	5.7	7.6	14.4	11.5	13.2	13.3	11.6	12.8
7	10.6	3.2	7.0	8.1	4.4	6.5	15.0	11.8	13.9	13.0	10.2	12.2
8	9.2	7.7	8.4	6.8	3.5	4.9	13.8	10.7	12.5	12.5	9.9	11.1
9	9.3	7.3	8.4	7.3	3.5	5.2	14.8	10.7	13.6	13.4	10.3	12.4
10	---	---	---	8.4	5.1	7.1	14.5	12.6	14.0	12.7	11.1	11.9
11	---	---	---	8.4	7.3	7.9	14.1	12.6	13.4	12.0	9.1	10.7
12	---	---	---	9.0	7.3	8.2	14.1	11.6	13.4	10.9	8.6	9.8
13	---	---	---	9.1	6.6	8.3	14.5	13.3	13.9	10.8	9.7	10.5
14	---	---	---	9.9	4.3	8.2	14.2	12.4	13.5	10.6	9.6	10.1
15	---	---	---	9.6	8.2	9.0	13.7	12.9	13.3	10.5	9.7	10.1
16	---	---	---	9.2	6.8	8.4	13.5	11.0	13.0	10.8	7.8	9.9
17	---	---	---	9.7	7.3	9.1	---	---	---	10.8	8.7	10.1
18	---	---	---	9.5	7.8	8.8	13.0	11.2	12.0	11.1	9.5	10.4
19	---	---	---	10.3	9.2	9.7	12.7	9.9	11.0	10.9	7.7	10.0
20	---	---	---	10.8	8.5	10.1	10.8	10.0	10.4	9.2	7.8	8.7
21	---	---	---	---	---	---	11.7	10.1	10.5	8.6	7.3	8.3
22	---	---	---	---	---	---	12.0	10.1	11.4	9.1	7.3	8.5
23	---	---	---	11.8	10.3	11.1	12.4	10.6	11.5	8.9	8.2	8.7
24	---	---	---	12.0	11.4	11.7	13.2	11.5	12.4	8.9	7.6	8.3
25	---	---	---	12.1	11.1	11.7	13.1	11.7	12.6	9.8	7.2	9.0
26	---	---	---	11.9	10.8	11.5	13.4	12.5	12.9	9.6	8.2	9.1
27	6.7	5.3	6.2	12.0	10.7	11.5	13.3	11.9	12.8	9.7	8.3	9.3
28	---	---	---	12.1	10.7	11.6	13.3	12.3	12.8	9.7	8.6	9.3
29	7.9	5.8	6.6	12.1	10.1	11.1	13.1	11.2	12.5	---	---	---
30	8.0	5.6	6.9	12.1	10.7	11.5	13.1	11.1	12.4	9.6	7.4	8.6
31	8.0	6.7	7.3	---	---	---	12.7	11.6	12.4	8.8	8.1	8.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.8	8.1	8.5	---	---	---	10.6	6.4	8.1	8.3	4.3	6.2
2	8.8	7.9	8.5	---	---	---	10.9	6.8	9.3	9.5	2.9	6.1
3	8.8	8.0	8.4	---	---	---	10.5	6.5	8.0	8.4	2.2	4.7
4	8.5	8.2	8.4	---	---	---	11.9	6.7	9.1	8.6	2.5	5.2
5	8.3	7.5	8.1	---	---	---	12.4	9.3	10.7	6.7	2.5	4.1
6	8.5	7.5	8.1	---	---	---	11.6	7.7	9.8	8.3	3.5	6.2
7	8.7	7.3	8.1	---	---	---	10.3	5.8	8.7	8.2	4.7	6.8
8	---	---	---	---	---	---	9.3	3.7	6.3	8.1	5.3	7.2
9	---	---	---	---	---	---	6.9	3.8	5.2	8.4	4.5	7.0
10	---	---	---	---	---	---	10.8	3.9	5.7	7.8	3.8	6.6
11	---	---	---	---	---	---	9.6	4.0	7.5	7.6	4.0	6.0
12	---	---	---	---	---	---	6.9	2.9	4.6	7.5	4.8	6.4
13	---	---	---	10.3	8.8	9.5	8.6	3.8	6.1	7.8	5.5	6.9
14	---	---	---	---	---	---	8.7	3.1	6.4	8.2	6.3	7.2
15	---	---	---	10.4	8.0	9.3	8.2	2.0	4.4	7.3	5.8	6.5
16	---	---	---	10.1	8.4	9.3	9.4	5.1	7.2	8.2	5.0	6.5
17	---	---	---	11.7	7.8	10.0	9.1	5.4	7.8	7.2	6.4	6.8
18	---	---	---	12.1	10.1	11.4	8.2	6.1	7.3	7.0	5.4	6.5
19	---	---	---	11.2	9.6	10.4	8.4	4.7	6.9	7.7	4.7	6.7
20	---	---	---	10.1	9.3	9.6	9.4	5.1	7.1	8.1	3.8	6.0
21	---	---	---	10.1	9.2	9.6	---	---	---	7.1	3.2	5.5
22	---	---	---	10.3	9.7	9.9	---	---	---	7.6	4.9	6.6
23	---	---	---	10.9	9.3	10.1	---	---	---	7.5	5.0	6.6
24	---	---	---	11.4	8.8	10.2	---	---	---	7.6	3.7	6.3
25	---	---	---	10.4	8.0	9.9	---	---	---	7.9	3.1	5.6
26	---	---	---	11.0	7.6	9.8	---	---	---	6.8	2.9	4.6
27	---	---	---	11.3	8.4	10.0	---	---	---	7.2	1.9	4.7
28	---	---	---	11.5	8.8	10.4	9.1	7.1	8.2	6.7	4.1	6.0
29	---	---	---	11.7	9.2	10.5	7.9	7.5	7.7	6.7	3.7	5.5
30	---	---	---	12.0	7.7	10.0	8.1	5.9	7.4	7.7	3.3	5.8
31	---	---	---	11.0	6.6	8.2	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	4.2	.2	1.3	---	---	---	6.9	.4	2.2
2	---	---	---	6.2	.4	3.7	---	---	---	7.4	.4	3.1
3	6.7	4.9	5.8	5.7	3.2	4.5	---	---	---	7.1	2.0	5.7
4	6.3	2.6	5.1	6.5	1.2	4.8	---	---	---	5.7	.9	3.7
5	6.4	1.7	4.7	6.4	4.2	5.7	---	---	---	7.3	2.7	5.3
6	6.9	1.4	4.7	9.0	3.8	6.0	6.1	.1	2.5	7.5	3.1	5.8
7	7.2	3.0	5.7	8.2	4.3	6.4	2.1	.1	.3	8.0	3.8	6.3
8	6.1	2.4	4.8	7.4	4.9	6.5	.9	.0	.1	7.2	3.8	6.2
9	6.0	.9	3.3	---	---	---	1.1	.0	.3	7.9	4.3	6.3
10	5.1	.0	1.3	---	---	---	2.7	.0	.3	6.2	2.4	3.9
11	2.1	.0	.6	---	---	---	3.0	.0	.4	7.8	2.6	4.8
12	3.7	.0	1.0	---	---	---	2.8	.0	.5	8.0	3.1	6.3
13	4.9	.3	1.5	7.3	2.9	6.7	3.6	.0	.3	7.6	5.9	6.7
14	6.8	1.0	4.2	8.8	6.2	7.2	7.2	.0	2.4	7.8	5.3	6.7
15	7.6	4.8	6.1	7.6	3.3	6.4	---	---	---	7.9	6.6	7.2
16	---	---	---	7.2	1.0	3.8	---	---	---	8.5	6.8	7.6
17	---	---	---	5.2	.8	2.8	3.8	.1	.9	8.2	5.3	7.1
18	7.7	3.6	5.7	7.8	1.6	4.5	7.1	.1	2.7	8.0	4.8	6.4
19	8.6	3.4	6.1	6.9	2.0	5.0	6.3	.3	3.2	8.5	4.5	6.1
20	7.8	1.0	4.3	7.5	6.2	7.0	7.1	.2	1.1	7.9	5.3	6.5
21	6.2	.2	2.7	7.1	5.6	6.5	---	---	---	7.1	2.2	5.4
22	4.7	.5	1.8	7.1	5.3	6.3	5.2	.3	1.8	5.8	.8	3.5
23	5.2	.4	2.2	7.4	1.1	5.5	6.2	.6	4.0	5.7	1.1	3.5
24	4.7	.6	2.9	6.3	1.0	4.7	5.0	.1	1.8	5.3	1.2	2.8
25	7.2	3.3	5.5	7.0	3.9	5.8	7.8	.1	4.8	8.3	2.3	5.4
26	7.3	2.7	5.1	7.8	3.0	6.2	7.7	1.8	4.9	8.2	4.1	6.7
27	---	---	---	6.9	5.2	6.3	4.7	.1	2.1	8.6	5.0	6.8
28	7.0	1.0	3.8	7.5	5.2	6.4	5.3	.1	1.3	10.0	2.5	7.2
29	4.3	.5	2.1	---	---	---	5.5	.1	1.7	8.8	1.6	7.8
30	3.4	.2	1.0	---	---	---	---	---	---	8.1	7.4	7.7
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	10.0	.4	5.7

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	101	90	94	92	84	89	95	86	90	93	84	87
2	110	88	96	95	84	90	92	87	90	95	87	91
3	119	91	103	94	82	88	89	86	88	98	87	93
4	133	97	110	97	81	89	95	88	91	97	90	94
5	141	93	112	96	82	88	100	90	95	101	89	94
6	139	97	116	97	82	87	100	95	97	98	89	93
7	120	94	106	94	80	87	104	96	100	101	93	98
8	104	85	92	106	79	88	105	96	101	106	98	101
9	92	84	88	101	76	89	102	96	99	105	95	101
10	98	83	89	94	69	82	100	94	97	98	90	93
11	117	82	96	91	82	86	102	94	97	106	91	100
12	120	88	107	93	83	86	100	93	96	109	101	105
13	134	107	121	104	83	90	98	90	95	105	100	102
14	136	116	123	100	86	91	102	92	97	109	98	103
15	131	112	122	93	84	88	100	93	97	121	88	107
16	141	114	129	97	83	90	100	95	97	116	101	109
17	135	111	125	96	86	89	---	---	---	113	103	108
18	130	114	124	94	84	87	---	---	---	117	103	107
19	135	106	115	90	85	87	89	74	82	110	98	105
20	130	101	114	94	83	89	83	76	78	98	88	94
21	125	100	111	---	---	---	91	76	82	93	84	88
22	114	88	100	91	85	88	92	80	84	92	84	88
23	100	86	93	93	86	89	88	81	84	89	86	87
24	---	---	---	92	86	89	96	82	87	104	85	94
25	---	---	---	92	88	90	94	85	88	101	89	95
26	---	---	---	97	88	93	90	84	87	100	86	92
27	89	80	85	100	91	94	94	86	90	96	87	91
28	---	---	---	97	89	93	92	87	89	98	86	91
29	99	83	89	107	90	97	92	86	89	---	---	---
30	94	81	88	94	87	90	92	87	89	95	74	84
31	93	84	88	---	---	---	92	84	86	89	79	83
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	88	78	84	---	---	---	115	93	106	111	78	90
2	88	82	85	---	---	---	112	92	101	133	79	102
3	87	82	84	---	---	---	109	101	105	121	93	106
4	82	78	80	---	---	---	124	100	109	114	90	104
5	82	76	80	---	---	---	134	106	116	115	86	105
6	87	76	81	---	---	---	125	109	117	101	79	89
7	89	82	84	---	---	---	141	101	116	90	78	83
8	---	---	---	---	---	---	136	114	125	96	80	87
9	---	---	---	---	---	---	139	107	118	98	69	88
10	---	---	---	---	---	---	136	88	112	106	83	94
11	---	---	---	---	---	---	126	94	111	104	80	95
12	---	---	---	---	---	---	118	94	108	96	66	83
13	---	---	---	101	84	94	117	89	103	93	73	84
14	---	---	---	---	---	---	117	92	103	95	79	86
15	---	---	---	104	94	101	113	93	105	94	68	81
16	---	---	---	106	93	99	100	87	93	100	76	87
17	---	---	---	124	100	112	100	81	89	83	74	79
18	---	---	---	124	110	116	88	76	81	99	68	80
19	---	---	---	112	94	102	93	78	84	103	75	88
20	---	---	---	100	89	93	92	77	85	98	69	88
21	---	---	---	100	90	94	91	72	84	92	53	84
22	---	---	---	100	93	95	92	80	85	91	71	81
23	---	---	---	109	92	99	102	71	88	88	69	81
24	---	---	---	116	96	105	95	67	86	105	72	87
25	---	---	---	102	95	97	---	---	---	101	72	91
26	---	---	---	105	92	99	---	---	---	92	65	77
27	---	---	---	113	97	105	---	---	---	91	61	79
28	---	---	---	110	103	106	99	78	87	81	68	74
29	---	---	---	113	101	107	82	79	80	84	64	75
30	---	---	---	126	98	110	91	76	82	106	60	90
31	---	---	---	133	102	118	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	91	54	78	92	77	86	107	68	87
2	---	---	---	80	37	57	89	72	80	105	75	86
3	94	64	78	79	58	67	90	70	79	101	64	84
4	88	69	78	97	57	78	101	71	87	120	61	83
5	125	62	84	86	67	79	98	69	87	123	77	104
6	108	78	92	118	67	83	131	77	105	91	75	84
7	110	84	96	108	71	87	119	84	102	101	72	85
8	108	74	94	103	84	94	108	62	93	89	70	78
9	112	86	96	---	---	---	99	50	78	95	56	73
10	118	81	98	---	---	---	68	12	50	90	52	69
11	123	72	93	---	---	---	78	18	48	113	79	95
12	114	70	93	---	---	---	87	46	68	110	89	98
13	85	30	70	91	75	83	95	49	80	---	---	---
14	89	31	64	101	68	81	102	58	79	99	69	86
15	101	65	82	116	75	94	---	---	---	96	84	90
16	---	---	---	126	64	94	---	---	---	102	86	93
17	---	---	---	107	48	89	134	64	108	116	82	101
18	122	99	111	120	55	94	119	68	101	125	92	105
19	122	80	107	106	66	88	115	77	95	115	91	105
20	131	80	100	92	78	86	125	84	101	108	90	98
21	120	76	106	93	78	85	---	---	---	108	74	94
22	128	53	91	99	79	89	116	84	102	120	67	98
23	76	35	59	110	75	93	109	53	89	123	88	105
24	98	52	73	93	62	77	97	76	87	106	56	78
25	96	58	76	95	61	81	98	72	85	95	52	80
26	100	49	73	102	76	88	107	79	91	109	86	96
27	---	---	---	90	70	82	121	73	88	114	91	101
28	153	98	126	102	70	82	100	45	81	---	---	---
29	154	83	125	104	72	82	92	53	72	---	---	---
30	124	85	106	87	70	79	---	---	---	---	---	---
31	---	---	---	96	73	85	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	100	90	93	84	69	78	108	89	102	98	90	93
2	104	80	93	87	70	80	108	102	105	102	89	97
3	104	76	91	87	60	77	108	102	104	99	91	95
4	105	45	79	83	54	71	114	101	108	100	84	95
5	70	41	52	86	54	78	113	97	105	98	80	91
6	59	28	39	87	57	77	118	97	109	100	88	96
7	125	37	82	83	45	67	122	98	114	98	78	92
8	106	86	95	70	36	51	116	90	105	96	76	84
9	97	79	90	75	37	54	123	90	113	104	79	95
10	---	---	---	89	52	74	121	106	116	96	84	90
11	---	---	---	87	75	81	117	106	112	91	70	81
12	---	---	---	90	74	83	122	97	114	85	66	75
13	---	---	---	91	67	84	123	112	118	85	77	83
14	---	---	---	99	43	83	122	109	118	84	76	79
15	---	---	---	95	81	89	123	114	118	84	77	80
16	---	---	---	90	67	82	119	96	116	89	61	80
17	---	---	---	94	71	89	---	---	---	89	70	83
18	---	---	---	91	76	85	116	99	107	92	77	86
19	---	---	---	96	86	92	110	86	96	90	61	83
20	---	---	---	101	80	94	95	86	90	80	65	75
21	---	---	---	---	---	---	100	86	89	74	62	71
22	---	---	---	---	---	---	101	86	95	77	62	72
23	---	---	---	103	92	97	100	89	94	74	68	72
24	---	---	---	104	98	101	106	93	99	74	63	68
25	---	---	---	105	96	101	104	93	99	80	59	74
26	---	---	---	106	96	102	102	96	99	78	68	73
27	72	57	67	107	96	103	101	92	98	80	68	76
28	---	---	---	108	96	103	101	95	98	79	70	75
29	85	62	71	108	90	99	99	85	95	---	---	---
30	84	59	73	107	96	102	100	86	94	79	60	71
31	84	70	76	---	---	---	96	89	93	76	68	72
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

0209265810 NEUSE RIVER AT CHANNEL LIGHT 9--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	75	69	72	---	---	---	103	60	77	88	46	65
2	77	67	73	---	---	---	105	65	89	102	30	65
3	76	68	72	---	---	---	100	62	76	91	23	50
4	72	69	71	---	---	---	115	64	87	95	26	55
5	71	64	69	---	---	---	122	90	103	73	26	43
6	73	64	69	---	---	---	115	76	96	94	36	68
7	75	62	69	---	---	---	103	57	87	89	50	73
8	---	---	---	---	---	---	95	36	62	88	58	77
9	---	---	---	---	---	---	69	37	51	95	48	76
10	---	---	---	---	---	---	118	39	57	86	41	73
11	---	---	---	---	---	---	102	41	80	85	44	67
12	---	---	---	---	---	---	74	29	47	85	52	72
13	---	---	---	97	80	88	95	39	67	90	61	78
14	---	---	---	---	---	---	95	34	70	95	71	83
15	---	---	---	99	74	88	90	21	47	83	66	74
16	---	---	---	96	79	88	103	55	79	94	57	73
17	---	---	---	116	74	97	98	59	83	81	71	76
18	---	---	---	120	98	112	84	62	75	79	60	72
19	---	---	---	108	90	99	85	48	69	88	53	76
20	---	---	---	96	86	89	95	52	71	95	43	68
21	---	---	---	95	86	90	---	---	---	83	36	63
22	---	---	---	97	90	93	---	---	---	90	57	77
23	---	---	---	105	87	95	---	---	---	88	58	77
24	---	---	---	109	83	96	---	---	---	89	43	73
25	---	---	---	99	74	93	---	---	---	95	36	66
26	---	---	---	102	71	91	---	---	---	81	34	55
27	---	---	---	103	78	92	---	---	---	86	22	56
28	---	---	---	106	81	95	96	73	85	79	48	71
29	---	---	---	108	85	97	82	78	80	79	43	65
30	---	---	---	116	72	95	86	62	77	92	39	68
31	---	---	---	106	62	78	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	54	3	17	---	---	---	87	5	28
2	---	---	---	79	5	47	---	---	---	93	5	38
3	82	59	70	72	40	57	---	---	---	89	26	71
4	78	31	62	84	15	61	---	---	---	71	11	46
5	79	20	58	81	53	73	---	---	---	91	34	65
6	88	16	58	114	48	75	76	1	32	93	38	72
7	92	36	72	102	54	80	26	1	4	100	47	79
8	77	29	59	91	61	81	12	0	2	89	47	77
9	74	11	40	---	---	---	14	0	4	100	54	78
10	64	0	16	---	---	---	35	0	4	77	30	48
11	26	0	7	---	---	---	39	0	5	99	33	60
12	46	0	13	---	---	---	36	0	7	100	39	79
13	61	4	19	93	36	84	47	0	4	95	73	83
14	84	12	52	111	77	90	93	1	31	96	66	82
15	93	58	75	95	41	80	---	---	---	93	80	86
16	---	---	---	90	12	48	---	---	---	99	80	89
17	---	---	---	65	10	35	49	2	12	96	61	83
18	98	45	71	99	20	57	93	2	34	93	56	74
19	109	42	76	87	25	63	82	3	41	100	52	71
20	98	12	54	94	78	87	92	3	14	93	62	76
21	78	3	33	89	70	81	---	---	---	84	26	63
22	59	7	22	90	67	78	67	4	24	69	10	42
23	67	5	28	93	14	69	80	8	51	68	13	42
24	58	8	37	80	12	59	65	2	23	64	14	34
25	92	41	69	91	50	74	99	1	60	100	28	64
26	93	34	64	100	38	80	95	23	61	97	49	79
27	---	---	---	87	66	80	59	1	27	100	59	79
28	90	13	49	94	65	80	67	1	16	117	29	84
29	56	6	27	---	---	---	70	2	22	99	18	89
30	43	2	13	---	---	---	---	---	---	91	81	85
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	117	5	68

02093000 NEW RIVER NEAR GUM BRANCH, NC

LOCATION.--Lat 34°50'56", long 77°31'11", 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 sea level (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 fair except those below 20 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. Minimum discharge for period of record also occurred Oct. 3, 4, 1993. Low flows affected by tide.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	21	55	44	57	104	139	32	88	46	226	86
2	123	21	51	42	52	92	158	30	656	42	149	84
3	101	21	86	41	51	85	130	28	699	40	111	57
4	81	20	108	40	65	300	118	27	362	41	91	52
5	66	26	101	41	99	321	107	27	198	43	75	46
6	57	27	90	42	90	235	97	26	134	40	68	61
7	48	23	80	40	80	171	89	25	103	36	122	44
8	42	20	70	39	73	141	81	26	87	35	72	43
9	39	26	61	38	67	124	75	25	78	38	61	274
10	37	29	88	36	66	110	69	25	71	81	55	314
11	33	23	98	37	62	100	65	24	63	39	51	157
12	28	25	107	35	62	89	61	24	56	35	59	96
13	27	28	94	37	74	89	57	130	53	34	55	70
14	25	36	92	38	72	79	54	57	91	32	67	57
15	22	39	92	42	74	107	48	35	426	31	70	43
16	22	29	82	38	68	164	48	55	541	29	57	40
17	22	27	81	37	94	131	45	53	404	33	51	44
18	22	24	73	36	111	109	46	50	243	33	88	39
19	24	35	68	37	88	93	44	43	164	43	282	32
20	23	98	64	146	78	87	40	49	121	42	155	30
21	21	48	58	143	73	566	41	115	106	35	181	27
22	21	29	55	122	104	610	39	55	116	44	184	24
23	21	24	51	104	178	417	37	43	97	71	85	22
24	22	22	48	91	135	274	35	39	144	72	62	21
25	23	76	46	82	115	203	37	34	159	50	55	26
26	23	284	44	74	105	163	50	36	121	42	47	22
27	23	155	44	71	90	137	42	53	88	38	47	19
28	24	102	56	69	99	119	38	80	69	37	41	17
29	21	78	56	63	---	122	35	205	58	36	38	16
30	22	66	52	60	---	162	33	180	51	629	53	15
31	21	---	48	62	---	149	---	110	---	585	43	---
TOTAL	1220	1482	2199	1827	2382	5653	1958	1741	5647	2432	2801	1878
MEAN	39.4	49.4	70.9	58.9	85.1	182	65.3	56.2	188	78.5	90.4	62.6
MAX	136	284	108	146	178	610	158	205	699	629	282	314
MIN	21	20	44	35	51	79	33	24	51	29	38	15
CFSM	.42	.53	.75	.63	.91	1.94	.69	.60	2.00	.83	.96	.67
IN.	.48	.59	.87	.72	.94	2.24	.77	.69	2.23	.96	1.11	.74

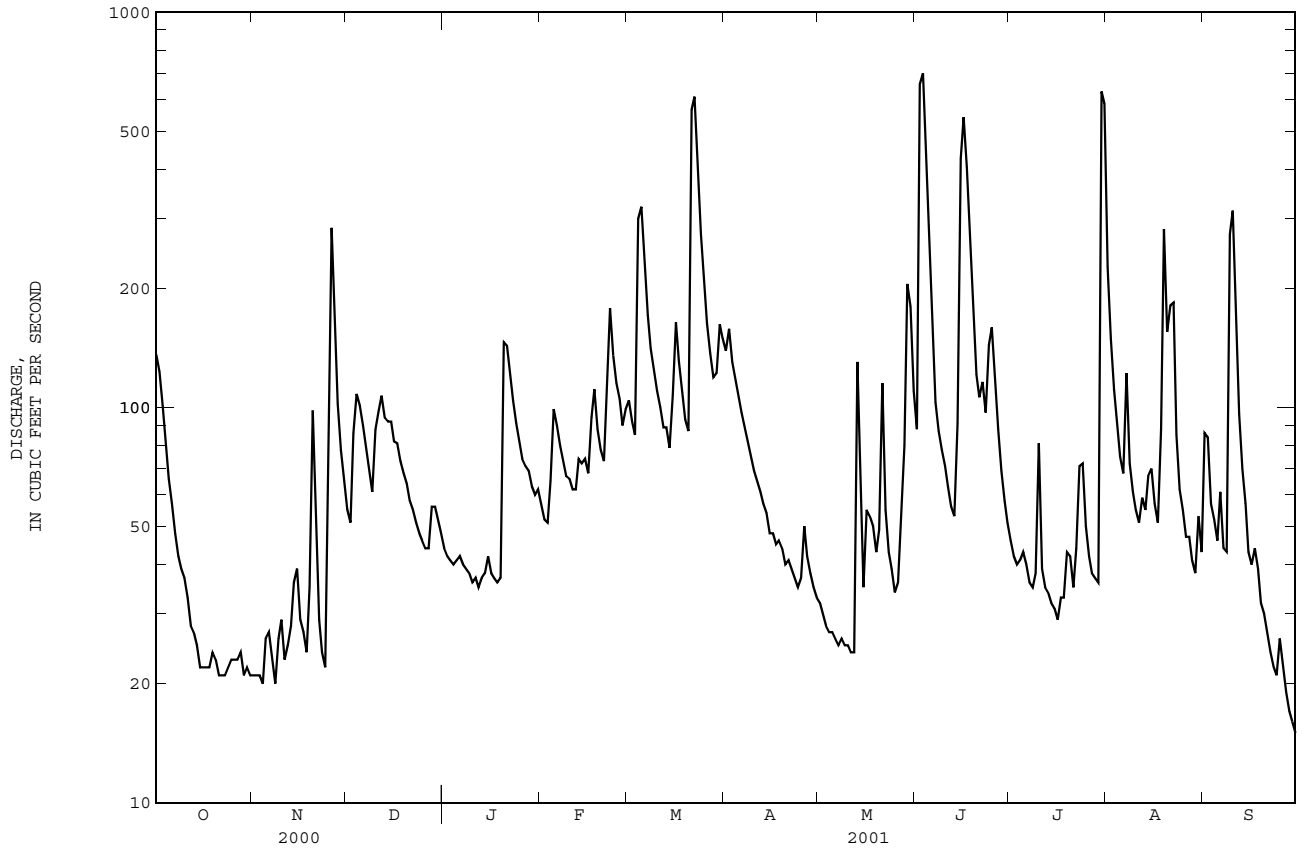
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2001,[@] BY WATER YEAR (WY)

MEAN	80.6	63.2	92.0	157	178	179	113	69.2	91.8	114	109	126
MAX	553	190	277	374	584	418	377	188	423	717	734	1110
(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

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1949 - 2001[@]	
ANNUAL TOTAL	37630		31220			
ANNUAL MEAN	103		85.5		115	
HIGHEST ANNUAL MEAN					208	1972
LOWEST ANNUAL MEAN					59.9	1953
HIGHEST DAILY MEAN	694	Mar 18	699	Jun 3	10100	Sep 16 1999
LOWEST DAILY MEAN	15	Jul 20	15	Sep 30	1.9	Oct 6 1954
ANNUAL SEVEN-DAY MINIMUM	16	Jul 15	19	Sep 24	2.0	Oct 4 1954
MAXIMUM PEAK FLOW			805	Jun 3	15000*	Sep 16 1999
MAXIMUM PEAK STAGE			10.86	Jun 3	25.12	Sep 16 1999
INSTANTANEOUS LOW FLOW			12	Sep 30	1.8*	Oct 7 1954
ANNUAL RUNOFF (CFSM)	1.09		.91		1.22	
ANNUAL RUNOFF (INCHES)	14.89		12.36		16.58	
10 PERCENT EXCEEDS	240		156		246	
50 PERCENT EXCEEDS	62		57		54	
90 PERCENT EXCEEDS	22		24		12	

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

02093000 NEW RIVER NEAR GUM BRANCH, NC--Continued



0209318667 NEW RIVER AT CHANNEL LIGHT 50

LOCATION.--Lat 34°41'51", long 77°24'15", Onslow County, Hydrologic Unit 03030001, at U.S. Coast Guard Channel Light 50.

PERIOD OF RECORD.--Water years 2000 to current year.

PERIOD OF DAILY RECORD.--

SALINITY (TOP AND BOTTOM): November 1999 to current year.

pH (TOP AND BOTTOM): November 1999 to current year.

WATER TEMPERATURE (TOP AND BOTTOM): November 1999 to current year.

DISSOLVED OXYGEN (TOP AND BOTTOM): November 1999 to current year.

DISSOLVED OXYGEN, PERCENT SATURATION (TOP AND BOTTOM): November 1999 to current year.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry from November 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 dissolved oxygen percent saturation is computed using a barometric pressure of 760mm Hg beginning October 1, 2000. Dissolved oxygen, minimum extremes are reported as <1.0 mg/L. Dissolved oxygen, percent saturation, minimum extremes are reported as <10%.

EXTREMES FOR PERIOD OF DAILY RECORD.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	23.7, January 25, 2000	2.0, September 26, 2000
SALINITY (BOTTOM), ppt	25.2, July 3, 2000	4.6, May 29, September 29, 2000
pH (TOP), standard units	8.8, November 21, 1999	6.7, September 25, 2000
pH (BOTTOM), standard units	8.6, February 13, 2001	6.6, September 28, 2000
WATER TEMPERATURE (TOP), °C	32.5, July 18, 2000	1.4, January 1, 2001
WATER TEMPERATURE (BOTTOM), °C	31.6, August 10, 2001	2.0, January 28, 2000
DISSOLVED OXYGEN (TOP), mg/L	15.6, January 30, 2000	1.2, September 9, 2000
DISSOLVED OXYGEN (BOTTOM), mg/L	13.4, January 30, 2000	<1.0, on many days during the period
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	178, July 8, 2000	15, September 9, 2000
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	123, February 19, 2000	<10, on many days during the period

EXTREMES FOR CURRENT YEAR.--

CONSTITUENT	MAXIMUM RECORDED	MINIMUM RECORDED
SALINITY (TOP), ppt	20.6, January 18	4.2, October 1
SALINITY (BOTTOM), ppt	24.7, May 19	7.1, October 9, 10
pH (TOP), standard units	8.5, March 2, June 19, August 4, September 17	6.8, October 17, 19
pH (BOTTOM), standard units	8.6, February 13	6.7, May 21
WATER TEMPERATURE (TOP), °C	31.9, August 8, 9	1.4, January 1
WATER TEMPERATURE (BOTTOM), °C	31.6, August 10	3.2, December 26
DISSOLVED OXYGEN (TOP), mg/L	14.0, March 10	2.3, July 10
DISSOLVED OXYGEN (BOTTOM), mg/L	11.8, December 4, 28	<1.0, on many days during the year
DISSOLVED OXYGEN, PERCENT SATURATION (TOP),%	145, June 19	29, July 10
DISSOLVED OXYGEN, PERCENT SATURATION (BOTTOM),%	107, February 16	<10, on many days during the year

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.7	4.2	5.2	16.3	15.6	16.1	14.2	10.5	13.3	14.9	13.5	14.6
2	6.3	5.3	5.8	17.3	15.7	16.2	14.3	13.2	13.8	15.1	13.7	14.6
3	7.3	4.8	5.6	18.1	15.7	16.2	16.5	13.2	14.7	14.9	14.5	14.8
4	7.0	5.0	5.5	17.7	15.5	16.4	15.0	13.7	14.5	15.0	14.1	14.7
5	5.9	5.0	5.5	19.4	15.9	17.4	14.8	13.5	14.3	14.9	14.2	14.7
6	6.3	4.9	5.4	18.7	16.5	17.5	14.6	12.2	14.0	15.8	14.6	15.0
7	6.8	5.2	6.2	18.8	16.7	17.3	15.3	12.5	14.1	15.4	14.5	14.9
8	7.6	6.5	6.9	17.9	16.7	17.1	16.0	13.0	13.8	15.2	13.1	14.8
9	7.5	6.8	7.2	17.8	16.9	17.2	14.5	12.7	13.3	16.5	14.1	15.1
10	7.3	5.8	6.9	18.4	17.2	17.8	14.2	13.4	13.7	17.2	15.7	16.1
11	7.1	5.8	6.6	18.5	17.9	18.1	14.1	13.3	13.9	17.5	15.8	16.3
12	7.1	5.8	6.7	18.7	18.1	18.3	14.1	12.5	13.3	17.1	15.8	16.3
13	8.2	6.3	7.0	18.6	17.9	18.3	14.3	13.6	14.0	18.2	15.8	17.2
14	8.7	6.4	7.4	18.6	17.7	18.2	14.3	13.1	13.8	18.0	15.9	17.3
15	9.9	6.4	8.2	19.1	17.7	18.3	14.1	13.1	13.6	18.4	16.7	17.5
16	11.1	7.1	9.6	18.9	16.5	18.1	14.4	12.7	13.8	18.4	16.1	16.7
17	13.0	9.0	11.1	18.8	17.5	18.1	14.3	13.0	13.9	19.1	16.3	17.3
18	13.9	9.5	12.0	18.8	18.4	18.6	14.2	12.2	13.2	20.6	15.9	18.1
19	15.2	11.5	13.2	18.8	18.4	18.5	13.5	11.5	13.0	19.3	16.5	17.6
20	14.1	12.2	13.1	19.1	17.6	18.6	13.7	12.7	13.3	18.1	16.7	17.6
21	14.7	12.4	13.8	19.1	17.3	18.4	13.7	12.2	13.0	19.2	16.1	17.9
22	14.5	11.7	13.0	18.8	18.0	18.5	13.7	11.3	13.2	18.1	15.0	17.4
23	14.5	12.7	13.8	18.8	18.0	18.3	13.4	13.0	13.2	18.7	16.4	18.0
24	14.3	13.1	13.8	18.2	17.9	18.1	13.3	10.5	12.6	18.2	16.3	17.6
25	14.9	13.3	14.2	19.0	17.4	18.2	13.8	10.7	13.2	18.4	15.3	17.6
26	15.1	14.5	14.8	18.4	14.8	17.2	13.9	12.4	13.2	17.8	16.7	17.4
27	15.9	14.5	15.3	17.3	13.5	15.8	13.8	11.6	13.0	17.5	15.8	16.8
28	15.7	14.0	15.1	16.7	12.2	14.5	16.1	12.2	13.9	17.5	16.3	16.7
29	16.1	15.2	15.7	16.2	11.5	14.0	15.3	13.9	14.3	17.5	14.8	16.7
30	16.2	14.7	15.8	14.1	11.3	12.8	15.4	13.1	14.3	17.4	15.8	16.4
31	16.3	15.4	15.9	---	---	---	15.1	13.8	14.6	17.0	15.8	16.6
MONTH	16.3	4.2	10.2	19.4	11.3	17.3	16.5	10.5	13.7	20.6	13.1	16.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	16.9	14.9	16.0	14.8	13.1	13.8	11.9	9.5	10.1	13.1	12.0	12.5
2	17.0	14.7	15.8	15.3	12.5	13.9	11.2	9.6	10.3	13.8	11.7	12.9
3	16.8	15.6	16.1	14.9	13.0	13.4	11.2	8.8	10.0	13.9	12.2	13.0
4	16.5	16.0	16.2	16.8	11.8	13.7	11.1	8.6	10.4	14.1	12.2	13.2
5	16.5	15.2	15.9	15.7	12.5	14.0	11.7	9.1	10.3	15.1	12.6	13.6
6	17.5	14.5	15.8	16.1	13.9	15.3	11.1	8.5	10.1	14.5	13.4	14.0
7	17.1	14.7	16.0	15.3	13.3	14.6	10.7	9.4	10.3	14.9	14.0	14.6
8	17.2	15.2	15.8	15.7	13.3	14.9	10.6	9.4	10.3	16.0	14.5	14.9
9	16.8	13.9	15.3	15.1	13.5	14.2	11.3	9.7	10.4	16.9	14.4	15.2
10	16.1	14.9	15.4	15.0	13.3	14.3	11.6	9.7	10.8	17.4	14.3	15.6
11	16.4	15.1	15.8	15.4	13.2	14.5	10.9	9.6	10.4	17.6	15.0	15.9
12	16.2	14.3	15.5	14.8	13.3	14.0	9.7	8.3	9.2	17.0	15.9	16.4
13	16.9	14.5	16.0	16.0	13.4	14.7	---	---	---	16.5	16.0	16.2
14	16.4	14.7	15.7	15.1	12.3	14.0	---	---	---	17.3	15.2	16.3
15	15.5	14.0	15.0	14.6	12.8	14.2	---	---	---	17.1	15.4	16.2
16	15.8	14.5	15.2	14.9	12.3	13.9	---	---	---	18.6	16.3	16.7
17	15.4	14.6	15.1	15.2	11.6	13.5	---	---	---	17.3	16.5	17.0
18	16.4	13.9	15.4	14.5	12.6	13.5	---	---	---	20.0	16.1	17.1
19	15.7	14.5	15.1	14.4	12.8	14.1	---	---	---	19.4	16.3	17.3
20	15.8	13.1	14.9	15.0	13.2	13.9	13.0	11.2	12.1	19.1	17.1	17.6
21	14.7	13.5	14.3	---	---	---	12.6	11.8	12.1	18.9	17.8	18.3
22	15.3	14.5	14.9	13.2	10.7	12.1	12.8	11.8	12.1	19.0	17.9	18.3
23	15.9	13.8	15.1	12.8	7.9	11.2	12.7	11.8	12.2	18.8	17.2	18.1
24	16.0	12.9	15.3	12.6	7.9	10.8	12.6	11.9	12.2	19.0	17.5	18.1
25	15.5	14.1	14.8	10.5	8.9	9.8	12.6	11.8	12.3	18.7	17.7	18.2
26	15.9	12.8	14.4	10.7	7.7	9.3	13.0	12.2	12.6	18.8	18.1	18.4
27	16.0	13.9	14.5	11.3	8.4	10.1	13.1	11.3	12.3	19.0	17.1	18.3
28	15.2	13.2	14.3	10.9	9.0	10.4	12.6	11.8	12.4	18.5	17.9	18.2
29	---	---	---	11.3	9.6	10.5	12.8	12.3	12.6	18.5	17.2	17.9
30	---	---	---	11.1	9.0	10.1	13.1	12.0	12.6	18.8	15.1	17.3
31	---	---	---	12.2	8.0	10.1	---	---	---	17.9	17.0	17.5
MONTH	17.5	12.8	15.3	---	---	---	---	---	---	20.0	11.7	16.3

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	17.9	16.9	17.7	12.2	9.9	10.9	15.5	12.2	14.5	15.6	14.9	15.2
2	17.7	14.3	16.1	11.3	9.9	10.9	16.1	12.4	14.9	15.4	14.3	14.9
3	15.4	11.1	13.7	11.7	11.1	11.3	---	---	---	15.3	14.3	14.7
4	16.1	8.8	12.6	11.8	11.3	11.5	15.3	12.6	14.3	16.0	13.9	15.0
5	15.1	10.7	13.6	12.2	10.8	11.6	15.5	12.9	14.2	16.3	13.4	15.3
6	13.9	10.5	12.7	12.1	11.2	11.6	15.7	13.0	14.1	16.3	14.4	15.2
7	13.9	11.3	12.6	12.2	11.4	11.8	15.8	12.6	14.5	18.4	14.9	16.0
8	14.5	12.4	13.1	12.9	10.9	11.8	15.3	13.5	14.4	16.9	16.0	16.4
9	15.7	12.6	13.6	13.8	10.7	12.0	15.1	13.8	14.4	17.2	14.3	15.8
10	15.2	13.2	13.9	14.9	11.5	12.4	14.9	14.1	14.5	15.9	12.8	14.2
11	14.3	12.5	13.8	13.0	11.7	12.1	15.1	14.0	14.6	16.5	11.3	14.6
12	14.4	13.2	13.8	14.0	11.8	12.2	15.3	14.2	14.7	16.0	12.2	14.4
13	14.5	12.3	13.9	13.2	11.3	12.6	15.3	14.1	14.6	15.1	12.7	14.2
14	15.0	13.5	14.3	14.7	11.3	12.9	15.1	13.1	14.0	14.9	12.5	13.3
15	14.5	12.0	13.8	15.3	12.1	13.4	15.1	12.9	13.5	16.1	13.8	14.9
16	13.6	9.5	12.2	15.5	12.4	13.4	15.5	13.0	14.2	16.3	15.1	15.7
17	12.8	10.3	11.6	15.7	13.3	14.2	15.4	12.7	14.3	16.4	13.4	15.6
18	12.9	10.7	12.1	15.4	13.1	14.5	15.4	13.4	14.2	17.5	14.5	16.3
19	12.7	9.8	11.0	15.4	14.1	14.8	---	---	---	18.2	14.5	16.1
20	13.0	10.4	11.5	15.5	14.7	15.1	---	---	---	16.1	15.2	15.7
21	12.9	9.0	11.5	16.0	14.9	15.3	15.1	12.7	13.8	17.2	15.1	15.9
22	12.8	10.4	11.6	16.9	15.5	15.9	14.7	12.5	13.3	18.4	14.5	16.7
23	12.2	11.2	11.5	17.4	14.5	15.8	16.2	12.4	14.8	18.6	14.9	17.0
24	11.8	9.1	10.8	16.3	14.9	15.5	14.6	12.0	13.3	18.1	15.9	16.8
25	10.9	8.8	9.7	16.6	14.8	15.5	16.2	12.1	14.4	18.2	15.8	16.6
26	10.4	7.6	8.9	16.7	14.5	15.3	16.5	12.5	15.1	17.6	15.9	17.0
27	11.7	7.1	9.8	15.7	13.7	15.0	16.5	14.5	15.2	17.3	15.8	16.7
28	12.7	7.0	10.0	15.4	14.3	15.0	16.1	14.7	15.3	17.6	16.3	17.0
29	12.9	7.6	10.0	16.1	14.0	15.0	15.4	15.0	15.2	18.1	17.1	17.6
30	10.8	9.2	9.8	16.0	14.6	15.1	15.3	14.0	14.9	18.2	17.6	17.9
31	---	---	---	15.9	13.9	15.0	15.7	14.7	15.2	---	---	---
MONTH	17.9	7.0	12.4	17.4	9.9	13.5	---	---	---	18.6	11.3	15.8

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.9	8.1	10.2	20.3	19.3	19.9	18.6	17.7	18.4	21.2	19.2	20.9
2	11.3	8.5	10.1	20.1	18.8	19.6	18.4	14.2	17.4	21.0	19.3	20.6
3	11.8	9.7	10.9	20.2	19.3	19.7	18.1	14.7	16.1	20.5	19.1	20.3
4	11.3	8.9	10.6	20.7	20.0	20.3	16.0	14.2	14.9	20.9	18.8	20.4
5	10.7	9.3	10.3	21.2	20.6	21.0	16.5	14.9	16.1	20.3	19.5	20.1
6	10.8	7.9	10.0	21.3	20.6	21.1	16.6	16.1	16.5	21.5	19.8	20.9
7	10.6	8.2	9.8	21.3	20.2	21.0	17.3	16.2	16.6	21.3	20.9	21.2
8	10.7	7.2	9.6	21.7	20.6	21.4	18.9	16.4	17.2	21.4	20.1	21.1
9	10.8	7.1	7.9	21.7	20.5	21.2	19.8	17.4	18.9	22.6	20.3	21.5
10	8.8	7.1	8.0	21.2	18.3	20.0	20.3	19.4	20.0	23.3	21.9	22.6
11	8.8	7.6	8.4	18.6	18.0	18.3	20.3	19.2	19.9	22.6	21.4	22.2
12	10.1	8.8	9.4	19.2	18.4	18.7	19.9	17.7	19.4	22.6	20.6	22.1
13	13.7	10.0	11.7	19.3	18.5	18.8	19.9	18.7	19.4	22.6	17.7	21.4
14	15.3	13.0	14.3	20.8	18.6	19.4	19.6	14.2	18.5	22.0	20.6	21.5
15	15.6	14.3	15.2	21.7	18.7	20.3	18.9	14.4	18.5	22.6	21.0	21.8
16	15.7	15.2	15.6	21.7	19.8	21.1	18.8	16.9	18.2	22.9	21.3	22.2
17	16.5	15.7	16.0	21.2	20.2	20.8	18.3	13.5	14.4	22.9	22.1	22.5
18	17.5	16.3	16.9	21.1	18.6	20.2	15.3	14.1	14.7	22.9	22.2	22.6
19	18.4	16.7	17.6	20.9	18.9	20.4	14.9	13.4	14.3	22.8	20.6	22.1
20	18.4	17.5	18.1	20.7	18.6	19.4	15.1	13.1	13.7	21.6	18.9	20.7
21	18.4	17.6	18.2	20.2	18.4	19.3	14.3	13.2	13.7	21.7	17.9	19.2
22	18.4	17.1	18.1	19.3	18.3	18.8	14.4	13.1	13.9	19.4	17.3	18.6
23	18.1	15.5	17.7	19.2	18.5	19.0	13.4	13.0	13.2	18.8	17.4	18.2
24	17.3	15.4	16.7	19.0	18.2	18.7	14.2	13.2	13.5	19.0	18.2	18.6
25	16.9	15.3	16.4	19.1	18.0	18.6	14.5	13.3	13.7	19.1	17.5	18.3
26	16.7	14.9	15.7	18.6	18.0	18.4	15.9	13.3	14.8	18.1	17.5	17.8
27	17.9	15.0	16.6	19.1	17.9	18.6	17.1	15.7	16.3	20.2	17.5	18.4
28	17.9	15.8	17.1	19.2	18.0	18.8	17.5	15.6	17.1	20.1	18.1	19.4
29	17.5	17.0	17.3	19.2	18.3	18.7	20.8	17.2	19.2	19.7	18.7	19.3
30	19.3	16.2	18.1	19.0	16.8	18.4	22.0	19.2	21.2	19.2	16.7	17.9
31	20.5	19.0	19.7	---	---	---	21.9	18.7	20.3	17.8	16.7	17.3
MONTH	20.5	7.1	13.9	21.7	16.8	19.7	22.0	13.0	16.8	23.3	16.7	20.4

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

SALINITY (PARTS PER THOUSAND), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	18.6	17.1	18.0	20.4	19.9	20.2	13.7	10.6	12.5	20.9	14.8	18.4
2	19.2	18.0	18.6	20.3	19.1	20.0	13.1	10.2	11.5	22.0	17.3	20.5
3	19.9	18.8	19.5	20.3	19.8	20.2	13.4	11.4	12.4	22.2	15.8	21.1
4	19.9	16.3	19.3	20.7	19.9	20.4	13.3	11.5	13.0	22.1	18.4	21.1
5	20.5	19.8	20.1	21.2	15.7	19.9	13.3	9.7	12.5	21.4	19.3	20.8
6	20.3	15.3	19.9	20.3	14.9	15.8	14.7	11.4	12.8	21.0	14.6	19.9
7	20.0	19.4	19.6	15.7	14.7	15.1	15.4	10.9	13.8	20.5	14.6	17.0
8	20.3	18.2	19.7	16.1	15.1	15.7	15.3	12.8	14.5	18.1	14.9	16.9
9	20.3	19.0	19.8	16.1	14.4	15.4	14.7	12.4	13.8	20.3	17.2	19.3
10	19.6	16.9	18.3	20.4	15.0	17.8	14.5	12.0	13.5	22.6	19.4	21.2
11	19.6	16.1	18.7	22.4	18.8	21.0	12.1	11.1	11.4	22.8	20.1	21.5
12	19.3	15.7	18.8	23.3	21.4	22.5	12.0	11.2	11.6	21.7	18.4	20.7
13	19.8	16.8	18.7	22.9	14.9	16.3	12.0	11.3	11.7	21.4	17.9	20.3
14	19.0	16.9	18.2	17.5	16.4	17.2	14.3	11.7	13.1	21.5	20.0	21.0
15	19.0	17.9	18.7	17.4	16.2	16.9	15.8	11.5	14.5	21.4	20.2	21.0
16	19.0	15.7	18.2	17.3	15.1	16.9	17.0	11.7	14.1	21.7	21.0	21.5
17	17.4	15.1	15.7	17.2	15.1	16.6	15.5	11.3	13.5	21.7	20.6	21.3
18	16.5	15.5	16.1	17.3	12.3	16.2	13.1	11.7	12.4	23.1	21.6	22.2
19	17.0	15.9	16.3	16.9	10.6	14.0	13.3	12.2	12.9	24.7	21.7	23.7
20	17.0	15.5	16.2	14.9	10.6	13.2	13.1	12.2	12.8	24.3	21.0	23.4
21	17.7	15.5	16.5	---	---	---	12.6	11.9	12.3	23.8	18.5	21.9
22	18.8	14.7	16.5	18.4	9.5	14.3	13.0	11.9	12.8	19.5	18.2	19.1
23	18.9	15.2	16.8	16.9	10.1	13.8	12.9	12.2	12.6	20.5	19.2	19.7
24	18.7	15.7	17.7	16.2	8.4	13.6	12.8	12.1	12.4	20.6	19.9	20.4
25	18.3	14.9	16.8	14.6	9.8	13.2	13.1	12.2	12.5	20.2	18.4	19.4
26	17.6	15.3	16.8	15.6	10.2	13.1	13.3	12.2	12.6	19.1	18.6	18.9
27	19.4	15.2	17.7	16.3	10.4	14.5	16.1	12.7	14.6	19.4	18.4	19.2
28	20.4	15.4	19.5	16.3	11.8	14.8	16.2	12.8	15.5	19.3	18.4	18.8
29	---	---	---	15.9	8.8	13.7	15.7	12.4	14.6	19.7	19.1	19.4
30	---	---	---	13.2	10.9	12.3	16.4	11.7	14.5	20.0	19.5	19.8
31	---	---	---	13.3	11.3	12.8	---	---	---	19.9	18.6	19.4
MONTH	20.5	14.7	18.1	---	---	---	17.0	9.7	13.1	24.7	14.6	20.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.3	17.1	18.5	16.5	14.4	15.8	19.4	18.6	19.2	16.3	15.3	15.8
2	19.1	17.5	18.8	15.3	14.1	14.6	19.7	19.4	19.6	16.3	15.1	15.8
3	19.1	17.3	18.5	14.1	11.7	12.9	19.9	18.7	19.4	15.8	15.2	15.4
4	18.7	17.0	18.3	12.6	11.1	11.9	19.7	18.4	19.0	---	---	---
5	17.7	17.0	17.5	13.4	11.7	12.7	19.8	18.1	19.0	20.8	19.4	20.3
6	17.5	17.1	17.4	13.7	12.9	13.3	18.7	17.1	18.0	21.5	20.0	21.1
7	17.5	17.1	17.4	14.3	12.8	13.9	17.9	16.9	17.6	21.6	21.0	21.4
8	17.6	16.9	17.3	15.5	14.1	14.5	17.2	16.3	16.8	21.7	20.3	21.0
9	17.7	15.9	17.4	17.5	15.5	16.9	16.9	15.1	16.4	20.4	16.3	19.0
10	17.7	16.7	17.2	18.5	16.1	17.4	15.7	14.9	15.4	19.1	17.0	18.3
11	17.5	16.3	16.9	18.1	16.9	17.7	15.8	15.0	15.4	18.6	17.5	18.2
12	18.3	16.3	17.2	17.8	17.0	17.6	15.9	14.7	15.6	18.1	17.5	17.7
13	17.4	14.3	15.9	18.7	17.0	17.7	15.7	14.7	15.4	18.6	17.3	18.2
14	15.7	12.3	15.1	20.5	18.4	19.3	16.5	14.9	15.6	18.3	17.7	18.2
15	15.5	12.3	14.8	20.9	19.6	20.5	17.3	16.5	16.9	18.2	15.3	16.9
16	15.7	13.1	15.4	20.3	19.3	20.1	17.5	16.7	17.0	16.7	14.9	15.7
17	15.9	12.9	15.4	19.7	17.9	19.0	18.1	16.1	17.3	18.2	15.5	17.1
18	15.7	12.6	15.3	18.4	16.9	17.8	17.5	15.7	16.8	20.1	18.1	19.2
19	16.7	13.4	15.8	17.8	16.8	17.5	---	---	---	20.9	19.6	20.3
20	16.8	15.9	16.4	17.8	15.7	17.2	---	---	---	20.8	17.9	20.2
21	16.7	15.0	16.1	---	---	---	16.3	15.1	15.6	21.6	20.8	21.2
22	16.3	14.3	15.4	20.2	15.1	19.2	16.6	15.3	16.1	21.9	21.1	21.5
23	15.1	14.1	14.5	21.3	19.1	20.2	20.6	16.6	18.8	22.3	20.6	21.7
24	14.9	14.0	14.6	20.9	16.3	19.0	21.6	20.3	21.2	21.8	17.2	20.5
25	14.5	11.8	14.1	17.9	15.6	17.0	21.5	20.6	21.1	20.2	18.9	19.7
26	14.8	13.1	13.9	17.8	15.9	17.2	20.8	20.0	20.5	19.8	17.7	18.4
27	15.5	12.0	14.7	18.4	17.5	18.0	20.2	18.4	19.6	18.4	17.6	18.2
28	16.5	15.0	15.8	18.6	17.3	18.4	18.8	15.7	18.1	18.8	17.4	17.9
29	17.5	15.3	16.9	18.6	17.7	18.3	16.6	15.4	16.0	18.8	17.3	17.9
30	17.3	15.7	16.8	18.7	17.5	18.1	16.5	15.1	16.0	18.4	17.7	18.0
31	---	---	---	19.6	18.4	19.2	15.8	15.1	15.5	---	---	---
MONTH	19.3	11.8	16.3	---	---	---	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.3	7.0	7.2	7.5	7.3	7.4	7.7	7.3	7.5	8.1	8.1	8.1
2	7.4	7.1	7.2	7.5	7.3	7.4	7.7	7.4	7.5	8.1	8.1	8.1
3	7.4	6.9	7.2	7.5	7.2	7.4	7.5	7.4	7.4	8.2	8.1	8.1
4	7.6	6.9	7.3	7.5	7.3	7.5	7.6	7.4	7.5	8.2	8.1	8.2
5	8.1	7.1	7.5	7.5	7.2	7.4	7.6	7.5	7.6	8.2	8.1	8.1
6	8.0	7.3	7.7	7.6	7.2	7.3	7.6	7.5	7.6	8.1	8.1	8.1
7	7.9	7.0	7.4	7.6	7.1	7.4	7.7	7.5	7.6	8.2	8.1	8.2
8	7.4	6.9	7.1	7.6	7.2	7.4	7.7	7.4	7.6	8.2	8.1	8.1
9	7.4	7.0	7.2	7.6	7.3	7.6	7.7	7.5	7.6	8.1	8.1	8.1
10	7.5	7.2	7.4	7.6	7.4	7.5	7.8	7.5	7.6	8.1	8.0	8.1
11	8.0	7.3	7.6	7.4	7.3	7.4	7.9	7.6	7.7	8.2	8.1	8.2
12	7.8	7.4	7.6	7.5	7.3	7.4	7.8	7.7	7.7	8.2	8.2	8.2
13	8.0	7.1	7.5	7.5	7.3	7.4	7.8	7.6	7.7	8.2	8.1	8.2
14	7.9	7.2	7.6	7.5	7.3	7.4	7.8	7.6	7.7	8.2	8.2	8.2
15	8.1	7.1	7.4	7.5	7.2	7.3	7.7	7.6	7.7	8.3	8.1	8.2
16	7.7	7.0	7.3	7.5	7.2	7.4	7.9	7.6	7.7	8.3	8.1	8.2
17	7.4	6.8	7.1	7.6	7.3	7.4	7.7	7.6	7.7	8.2	8.1	8.2
18	7.2	6.9	7.1	7.6	7.3	7.5	7.9	7.6	7.7	8.2	8.0	8.2
19	7.4	6.8	7.1	7.5	7.4	7.4	7.9	7.8	7.9	8.2	8.1	8.2
20	7.4	7.0	7.1	7.5	7.4	7.5	8.0	7.8	7.9	8.2	8.1	8.1
21	7.5	6.9	7.2	7.5	7.4	7.5	8.1	7.9	7.9	8.1	7.9	8.0
22	7.7	6.9	7.3	7.6	7.4	7.5	8.1	7.9	7.9	8.1	8.0	8.0
23	7.4	7.1	7.2	7.6	7.5	7.6	8.1	7.9	8.0	8.0	7.9	8.0
24	7.5	7.1	7.3	7.6	7.5	7.6	8.1	8.0	8.1	8.0	7.9	8.0
25	7.5	7.0	7.3	7.6	7.5	7.5	8.1	8.0	8.1	8.0	7.8	7.9
26	7.5	7.2	7.4	7.5	7.4	7.5	8.1	8.1	8.1	7.9	7.8	7.9
27	7.5	7.1	7.3	7.5	7.3	7.4	8.1	8.0	8.1	7.9	7.8	7.9
28	7.6	7.2	7.4	7.5	7.3	7.4	8.1	8.0	8.1	8.0	7.8	7.9
29	7.5	7.3	7.4	7.5	7.3	7.4	8.1	8.0	8.1	8.0	7.9	7.9
30	7.5	7.3	7.4	7.4	7.3	7.3	8.1	8.1	8.1	8.0	7.8	7.9
31	7.5	7.3	7.4	---	---	---	8.1	8.1	8.1	7.9	7.8	7.9
MONTH	8.1	6.8	7.3	7.6	7.1	7.4	8.1	7.3	7.8	8.3	7.8	8.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.0	7.9	7.9	8.4	8.2	8.3	8.0	7.4	7.7	7.7	7.4	7.6
2	8.0	7.8	8.0	8.5	8.1	8.3	7.9	7.5	7.7	7.7	7.5	7.6
3	8.1	7.8	7.9	8.4	8.1	8.3	8.0	7.7	7.8	7.7	7.5	7.6
4	8.0	7.9	8.0	8.4	7.6	8.2	8.0	7.7	7.8	7.6	7.5	7.5
5	8.0	7.8	7.9	8.3	7.5	7.9	8.1	7.4	7.8	7.7	7.5	7.6
6	8.0	7.8	8.0	7.8	7.2	7.5	8.0	7.7	7.9	7.6	7.5	7.6
7	8.1	7.9	8.0	7.8	7.5	7.7	8.0	7.5	7.8	7.6	7.4	7.5
8	8.2	8.0	8.1	8.0	7.6	7.8	8.0	7.7	7.9	7.8	7.4	7.6
9	8.2	8.0	8.1	8.0	7.7	7.9	8.2	7.8	8.0	7.8	7.6	7.8
10	8.2	8.0	8.1	8.4	7.7	7.9	8.1	7.7	8.0	7.9	7.7	7.8
11	8.2	7.9	8.0	8.3	7.9	8.0	8.0	7.8	7.9	7.9	7.7	7.8
12	8.1	7.9	8.0	8.3	7.6	8.1	7.9	7.5	7.7	7.9	7.7	7.8
13	8.0	7.7	7.9	8.2	7.9	8.0	7.7	7.4	7.6	7.8	7.7	7.8
14	8.0	7.6	7.8	8.3	7.9	8.1	7.8	7.4	7.6	7.9	7.6	7.8
15	8.2	7.7	7.9	8.2	7.9	8.0	7.7	7.4	7.5	7.9	7.6	7.8
16	8.0	7.7	7.9	8.1	7.8	8.0	7.7	7.2	7.4	7.9	7.7	7.8
17	8.0	7.8	7.9	8.1	7.6	7.9	7.6	7.3	7.5	7.8	7.7	7.8
18	8.1	7.7	7.9	7.9	7.4	7.6	7.6	7.4	7.5	7.9	7.2	7.7
19	8.0	7.8	7.9	7.8	7.6	7.7	7.9	7.5	7.6	7.9	7.5	7.8
20	8.3	7.9	8.0	7.7	7.5	7.6	7.8	7.6	7.7	7.9	7.4	7.8
21	8.2	8.1	8.1	---	---	---	7.8	7.7	7.7	7.9	7.7	7.8
22	8.2	7.9	8.0	7.5	7.3	7.4	7.8	7.6	7.7	7.8	7.7	7.7
23	8.1	7.8	7.9	7.6	7.3	7.4	7.8	7.6	7.7	7.9	7.6	7.8
24	8.1	7.8	7.9	7.6	7.3	7.5	7.7	7.6	7.6	8.1	7.7	7.9
25	8.1	7.9	8.0	7.5	7.3	7.4	7.6	7.5	7.5	7.9	7.8	7.9
26	8.3	7.8	8.0	7.5	7.2	7.4	7.7	7.4	7.5	7.9	7.7	7.8
27	8.3	7.9	8.2	7.6	7.4	7.5	7.8	7.6	7.7	8.0	7.6	7.9
28	8.3	8.1	8.2	7.7	7.5	7.6	7.8	7.6	7.7	8.0	7.8	7.9
29	---	---	---	7.6	7.5	7.6	7.8	7.6	7.7	8.0	7.7	7.9
30	---	---	---	7.8	7.5	7.6	7.8	7.5	7.7	8.1	7.8	7.9
31	---	---	---	7.9	7.4	7.7	---	---	---	8.1	7.8	7.9
MONTH	8.3	7.6	8.0	---	---	---	8.2	7.2	7.7	8.1	7.2	7.8

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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	7.7	7.9	8.2	7.7	8.0	7.8	7.4	7.6
2	8.0	7.7	7.8	8.0	7.6	7.9	8.0	7.7	7.9	7.9	7.5	7.7
3	7.9	7.5	7.7	8.0	7.5	7.7	8.2	7.9	8.0	7.9	7.6	7.7
4	8.1	7.4	7.7	7.8	7.5	7.7	8.5	7.8	8.1	7.8	7.6	7.7
5	8.1	7.4	7.9	7.9	7.5	7.7	8.4	7.8	8.1	7.9	7.5	7.7
6	8.3	7.5	8.0	7.8	7.5	7.7	8.1	7.7	8.0	8.0	7.7	7.9
7	8.2	7.3	7.8	8.0	7.5	7.8	8.2	7.6	8.0	8.1	7.5	7.8
8	8.0	7.3	7.8	8.0	7.2	7.8	8.3	7.8	8.1	8.1	7.9	8.0
9	8.1	7.4	7.8	8.0	7.3	7.7	8.1	7.9	8.0	8.1	7.8	8.0
10	8.2	7.4	8.0	8.0	7.2	7.8	8.1	7.9	8.0	8.2	7.8	8.0
11	8.2	7.7	8.0	8.1	7.8	8.0	8.0	7.9	8.0	8.3	7.8	8.0
12	8.1	7.7	7.9	8.0	7.2	7.8	8.1	7.8	8.0	8.2	7.7	8.0
13	7.9	7.6	7.8	8.0	7.6	7.8	8.1	7.9	8.0	8.3	7.6	8.0
14	7.7	7.5	7.6	7.8	7.4	7.6	8.3	7.8	8.0	8.4	7.6	8.1
15	7.9	7.4	7.6	8.0	7.4	7.8	8.1	7.8	7.9	8.0	7.7	7.9
16	7.9	7.5	7.7	8.1	7.7	7.9	8.3	7.7	7.9	8.1	7.8	8.0
17	8.1	7.6	7.8	8.1	7.2	7.9	8.2	7.5	8.0	8.5	7.8	8.0
18	8.2	7.5	7.9	8.2	7.7	7.9	8.2	7.8	8.0	8.1	7.6	7.9
19	8.5	7.7	8.1	8.0	7.8	7.9	---	---	---	8.1	7.7	7.8
20	8.3	7.8	8.1	7.9	7.7	7.8	---	---	---	8.1	7.7	7.9
21	8.3	7.6	8.1	7.9	7.7	7.8	8.2	7.8	8.0	8.0	7.2	7.8
22	8.3	7.8	8.0	7.9	7.7	7.9	8.3	7.5	8.0	7.9	7.1	7.6
23	8.1	7.8	7.9	7.9	7.5	7.8	8.3	7.5	8.1	7.9	7.1	7.6
24	7.9	7.4	7.8	8.0	7.7	7.8	8.3	7.5	7.9	7.9	7.1	7.7
25	8.0	7.5	7.7	7.9	7.7	7.8	8.1	7.6	7.8	7.7	7.5	7.6
26	8.2	7.3	7.9	7.9	7.7	7.8	8.4	7.8	8.0	7.7	7.4	7.6
27	8.4	7.6	7.9	7.8	7.6	7.7	8.1	7.7	8.0	7.7	7.5	7.6
28	8.3	7.1	7.7	8.0	7.6	7.7	8.1	7.9	8.0	7.7	7.4	7.6
29	8.1	7.3	7.8	8.0	7.6	7.8	8.0	7.7	7.8	7.8	7.5	7.6
30	8.2	7.6	8.0	7.9	7.6	7.7	8.1	7.8	7.9	7.8	7.6	7.7
31	---	---	---	8.1	7.5	7.8	7.9	7.5	7.7	---	---	---
MONTH	8.5	7.1	7.9	8.2	7.2	7.8	---	---	---	8.5	7.1	7.8

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.2	6.9	7.0	7.6	7.2	7.4	7.3	7.1	7.2	7.9	7.7	7.8
2	7.2	7.0	7.1	7.6	7.1	7.3	7.5	7.1	7.2	7.9	7.7	7.8
3	7.2	7.0	7.1	7.6	7.1	7.3	7.6	7.0	7.3	7.9	7.6	7.7
4	7.1	6.8	7.0	7.5	7.1	7.3	7.7	7.4	7.6	7.8	7.5	7.7
5	6.9	6.8	6.8	7.5	7.1	7.3	7.7	7.6	7.6	7.8	7.5	7.7
6	7.0	6.8	6.8	7.3	7.1	7.2	7.6	7.5	7.6	7.8	7.6	7.7
7	6.9	6.8	6.8	7.2	7.0	7.1	7.7	7.5	7.6	7.8	7.6	7.7
8	7.0	6.8	6.9	7.3	7.0	7.1	7.6	7.5	7.6	7.8	7.6	7.7
9	7.6	6.8	7.3	7.2	7.0	7.1	7.6	7.3	7.5	8.1	7.6	7.9
10	7.6	7.3	7.4	7.8	7.0	7.3	7.7	7.4	7.5	8.1	7.9	8.0
11	7.6	7.3	7.4	7.8	7.6	7.7	7.6	7.4	7.5	8.1	8.0	8.0
12	7.4	7.2	7.3	7.7	7.4	7.6	7.6	7.3	7.4	8.1	7.9	8.0
13	7.5	7.2	7.3	7.7	7.3	7.5	7.5	7.3	7.4	8.1	7.9	8.0
14	7.4	7.1	7.2	7.6	7.2	7.4	7.7	7.2	7.4	8.1	7.8	8.0
15	7.3	7.0	7.1	7.7	7.3	7.5	7.5	7.2	7.3	8.1	7.8	8.0
16	7.1	6.9	7.0	7.5	7.2	7.4	7.6	7.1	7.4	8.1	7.7	7.9
17	7.2	7.0	7.1	7.7	7.2	7.4	7.7	7.1	7.6	8.0	7.8	7.9
18	7.3	7.1	7.2	7.7	7.4	7.6	7.7	7.5	7.6	8.1	7.8	7.9
19	7.3	7.0	7.1	7.6	7.3	7.5	7.7	7.5	7.6	8.0	7.8	7.9
20	7.1	6.9	7.0	7.7	7.4	7.6	7.8	7.6	7.7	8.1	7.8	7.9
21	7.0	6.9	6.9	7.8	7.5	7.6	7.7	7.6	7.7	8.0	7.8	7.9
22	7.0	6.9	6.9	7.7	7.7	7.7	7.8	7.6	7.7	8.0	7.8	7.9
23	7.0	6.9	6.9	7.7	7.6	7.6	7.8	7.7	7.8	8.0	7.9	8.0
24	7.0	6.9	6.9	7.7	7.5	7.6	7.8	7.7	7.8	8.0	7.9	7.9
25	7.4	6.8	6.9	7.7	7.6	7.6	7.9	7.7	7.8	8.0	7.8	7.9
26	7.6	6.9	7.2	7.6	7.6	7.6	8.0	7.8	7.9	8.0	7.9	7.9
27	7.5	6.9	7.2	7.6	7.5	7.5	8.0	7.9	7.9	8.0	7.8	7.9
28	7.6	7.3	7.4	7.5	7.4	7.5	8.0	7.9	7.9	7.9	7.8	7.9
29	7.5	7.2	7.4	7.4	7.3	7.4	7.9	7.9	7.9	7.9	7.7	7.8
30	7.7	7.4	7.5	7.4	7.3	7.3	8.0	7.9	7.9	8.0	7.7	7.9
31	7.7	7.4	7.6	---	---	---	8.0	7.8	7.9	8.0	7.8	7.9
MONTH	7.7	6.8	7.1	7.8	7.0	7.4	8.0	7.0	7.6	8.1	7.5	7.9

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

PH, WATER, WHOLE, FIELD, STANDARD UNITS, BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	7.9	7.7	7.8	7.7	7.3	7.5	7.6	7.2	7.3	7.5	7.1	7.2
2	7.9	7.7	7.8	7.7	7.2	7.4	7.8	7.5	7.7	7.3	7.1	7.1
3	7.8	7.6	7.7	7.3	7.1	7.2	7.9	7.4	7.6	7.3	7.1	7.1
4	8.1	7.5	7.6	7.3	7.0	7.2	7.7	7.2	7.4	7.4	7.1	7.2
5	7.8	7.6	7.7	8.1	7.1	7.3	7.5	7.2	7.3	7.3	7.1	7.2
6	7.8	7.4	7.6	8.1	7.1	7.8	7.8	7.0	7.3	7.4	7.1	7.2
7	7.6	7.4	7.5	8.0	7.7	7.9	7.8	7.0	7.3	7.8	7.1	7.4
8	7.8	7.4	7.4	8.0	7.4	7.8	7.4	7.0	7.2	7.9	7.3	7.6
9	7.5	7.3	7.4	7.9	7.3	7.6	7.5	6.9	7.1	7.7	7.3	7.6
10	7.9	7.3	7.6	7.8	7.5	7.6	7.5	6.9	7.1	7.8	7.4	7.6
11	8.1	7.2	7.5	7.8	7.4	7.6	7.9	7.0	7.6	7.7	7.4	7.6
12	8.1	7.1	7.4	7.6	7.3	7.5	7.9	7.5	7.7	7.7	7.4	7.5
13	8.6	7.5	7.8	8.1	7.3	7.9	7.8	7.5	7.6	7.8	7.4	7.6
14	8.3	7.5	7.7	7.9	7.6	7.7	7.7	6.9	7.2	7.7	7.4	7.5
15	7.7	7.4	7.5	7.6	7.2	7.4	7.4	6.9	7.0	7.6	7.2	7.4
16	8.4	7.4	7.6	7.7	7.1	7.2	7.7	6.9	7.3	7.3	7.1	7.2
17	8.3	7.6	8.2	7.8	7.0	7.2	7.5	6.8	7.2	7.1	7.0	7.0
18	8.3	8.1	8.2	7.9	7.1	7.4	7.6	7.3	7.5	7.1	6.9	7.0
19	8.3	7.8	8.1	8.0	7.2	7.7	7.7	7.2	7.5	7.3	6.9	7.0
20	8.4	7.8	8.1	7.9	7.5	7.7	7.8	7.4	7.6	7.0	6.8	6.9
21	8.3	7.7	8.0	---	---	---	7.8	7.5	7.7	7.8	6.7	7.1
22	8.4	7.6	8.0	7.5	7.3	7.5	7.7	7.5	7.6	7.7	7.5	7.6
23	8.3	7.6	8.1	7.6	7.1	7.4	7.8	7.6	7.7	7.6	7.0	7.3
24	8.3	7.4	7.7	7.6	7.1	7.3	7.8	7.6	7.8	7.2	7.0	7.1
25	8.3	7.4	7.8	7.5	7.0	7.2	7.8	7.6	7.7	7.8	7.0	7.3
26	8.2	7.7	8.0	7.5	7.1	7.3	7.8	7.6	7.7	7.7	7.5	7.6
27	8.2	7.6	7.7	7.5	7.2	7.4	7.8	7.4	7.6	7.6	7.2	7.4
28	8.2	7.3	7.6	7.3	7.1	7.2	7.6	7.3	7.4	7.6	7.3	7.5
29	---	---	---	7.6	7.1	7.2	7.9	7.1	7.3	7.4	7.1	7.2
30	---	---	---	7.6	7.4	7.5	7.9	7.0	7.5	7.4	7.1	7.2
31	---	---	---	7.7	7.2	7.4	---	---	---	7.2	7.0	7.1
MONTH	8.6	7.1	7.8	---	---	---	7.9	6.8	7.4	7.9	6.7	7.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.7	7.0	7.4	7.1	7.1	7.1	7.3	7.1	7.2	7.6	7.1	7.4
2	7.6	7.2	7.3	7.1	7.0	7.1	7.3	7.1	7.2	7.8	7.1	7.3
3	7.3	7.1	7.2	7.5	6.8	7.0	7.2	7.1	7.1	7.9	7.6	7.7
4	7.4	7.1	7.2	7.6	6.9	7.2	7.2	7.0	7.1	---	---	---
5	7.3	7.0	7.1	7.6	7.2	7.3	7.1	7.1	7.1	7.2	7.1	7.2
6	7.1	6.9	7.0	7.2	6.9	7.0	7.2	7.0	7.1	7.3	7.1	7.2
7	7.0	6.9	7.0	7.0	6.8	6.9	7.2	7.0	7.0	7.1	7.1	7.1
8	7.0	6.9	6.9	7.0	6.8	6.9	7.5	7.0	7.2	7.1	7.1	7.1
9	7.0	6.9	6.9	7.0	6.9	7.0	8.0	7.1	7.3	7.6	7.1	7.1
10	6.9	6.9	6.9	7.1	6.9	7.0	8.1	7.7	8.0	7.6	7.1	7.2
11	7.1	6.8	6.9	7.1	6.9	7.0	8.1	7.8	7.9	7.3	7.1	7.1
12	7.0	6.9	6.9	7.1	6.9	7.0	8.1	7.7	7.9	7.1	7.1	7.1
13	7.9	6.9	7.3	7.0	7.0	7.0	8.0	7.8	7.9	7.1	7.0	7.1
14	7.7	7.3	7.5	7.2	7.0	7.1	7.9	7.5	7.7	7.1	7.0	7.0
15	7.7	7.2	7.5	7.3	7.0	7.1	7.6	7.2	7.4	7.7	7.0	7.3
16	7.5	7.1	7.3	7.0	7.0	7.0	7.3	7.1	7.2	7.8	7.3	7.7
17	7.3	7.1	7.2	7.1	7.0	7.0	8.0	7.1	7.3	7.7	7.4	7.5
18	7.1	7.0	7.0	7.4	7.0	7.1	7.7	7.2	7.3	7.5	7.4	7.4
19	7.0	6.8	6.9	7.3	7.0	7.1	---	---	---	7.4	7.2	7.3
20	6.9	6.8	6.9	7.8	7.0	7.1	---	---	---	7.2	7.1	7.2
21	6.9	6.8	6.9	7.8	7.1	7.4	7.9	7.2	7.5	7.1	6.9	7.0
22	7.0	6.8	6.9	7.5	7.3	7.4	7.8	7.1	7.3	7.0	6.9	6.9
23	7.1	6.8	7.0	7.4	7.2	7.3	7.3	7.0	7.1	7.0	6.9	6.9
24	7.1	6.9	7.0	7.9	7.1	7.4	7.2	7.1	7.1	7.8	7.0	7.1
25	7.1	6.9	7.0	7.8	7.4	7.6	7.1	7.0	7.1	7.5	7.0	7.1
26	7.0	6.8	6.9	7.8	7.3	7.6	7.2	7.0	7.1	7.6	7.0	7.4
27	7.7	6.8	7.0	7.4	7.1	7.3	7.2	7.0	7.1	7.6	7.1	7.2
28	7.2	6.9	7.0	7.4	7.1	7.2	7.8	7.0	7.2	7.6	7.1	7.2
29	7.1	7.1	7.1	7.4	7.0	7.2	7.9	7.2	7.5	7.8	7.3	7.6
30	7.1	7.1	7.1	7.3	7.0	7.1	7.7	7.2	7.3	7.8	7.6	7.7
31	---	---	---	7.3	7.0	7.2	7.7	7.5	7.6	---	---	---
MONTH	7.9	6.8	7.1	7.9	6.8	7.2	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	21.4	20.5	20.9	16.9	15.7	16.4	11.1	8.8	10.0	2.9	1.4	2.3
2	22.1	20.2	21.0	17.2	15.7	16.3	10.3	9.4	9.8	3.2	2.0	2.6
3	23.0	20.9	21.6	17.2	15.1	16.1	9.4	7.0	8.5	3.2	1.9	2.5
4	23.4	22.0	22.6	17.1	15.2	16.3	7.0	6.1	6.6	3.1	1.8	2.5
5	24.8	22.5	23.5	17.6	16.4	17.0	7.1	6.0	6.4	3.3	2.2	2.8
6	25.9	23.6	24.6	17.4	16.0	16.6	7.3	6.2	6.9	4.2	2.9	3.6
7	25.3	23.0	23.8	17.3	16.0	16.7	8.2	6.6	7.1	4.5	2.8	3.7
8	23.2	18.8	20.9	18.0	16.7	17.2	8.9	6.8	7.8	5.8	3.8	4.3
9	18.9	17.0	18.1	19.0	17.5	18.2	8.5	6.8	7.7	5.3	4.2	4.8
10	17.0	15.8	16.6	19.5	18.5	19.0	8.0	7.6	7.8	4.7	3.5	4.1
11	18.6	15.4	16.4	18.5	16.8	17.6	8.5	7.4	7.8	5.2	4.0	4.6
12	17.8	15.8	16.7	17.1	16.2	16.6	9.9	8.3	9.1	5.8	4.7	5.1
13	18.0	16.2	16.9	16.6	15.7	16.2	8.9	8.1	8.4	6.8	5.1	5.8
14	18.2	16.7	17.4	16.4	15.6	16.1	10.9	8.3	9.6	6.9	6.2	6.5
15	18.4	17.1	17.7	15.6	14.4	14.9	11.0	10.4	10.6	9.3	6.5	7.2
16	18.3	17.6	17.9	14.7	12.6	14.2	11.0	10.2	10.5	10.0	8.2	9.0
17	19.7	17.8	18.4	14.4	13.9	14.1	12.0	10.8	11.5	9.4	7.8	8.8
18	20.3	18.2	19.4	13.9	12.8	13.2	11.3	9.8	10.3	9.8	8.0	8.8
19	20.8	18.9	19.8	13.1	11.7	12.3	10.4	8.1	9.8	11.5	8.9	10.2
20	20.6	19.9	20.2	11.8	10.9	11.4	9.7	7.9	8.7	12.3	11.4	11.9
21	20.8	20.0	20.4	11.2	9.9	10.5	8.8	6.9	7.8	11.5	8.7	10.3
22	21.8	19.2	20.5	10.1	8.3	9.3	8.1	7.0	7.7	10.0	8.2	9.2
23	20.6	19.0	19.8	9.1	7.9	8.6	7.0	5.5	6.3	9.4	7.8	8.6
24	20.4	18.4	19.4	9.4	8.0	8.6	6.0	4.2	5.4	8.0	7.2	7.6
25	20.2	18.8	19.4	10.2	8.5	9.1	5.1	4.0	4.8	7.9	6.9	7.7
26	19.5	18.9	19.2	11.1	9.4	10.3	4.1	3.1	3.7	8.0	6.1	6.7
27	19.8	18.9	19.3	11.8	10.1	10.6	3.8	2.9	3.6	7.5	5.9	6.6
28	20.1	18.8	19.3	12.6	10.0	10.8	4.4	3.3	3.8	7.3	6.1	6.7
29	19.2	18.1	18.7	12.4	10.6	11.3	4.0	2.7	3.4	8.1	6.6	7.2
30	18.3	17.2	17.6	11.5	10.1	11.1	3.9	3.1	3.6	9.5	7.8	8.7
31	17.6	16.6	16.9	---	---	---	3.1	2.2	2.6	10.5	9.1	9.7
MONTH	25.9	15.4	19.5	19.5	7.9	13.9	12.0	2.2	7.3	12.3	1.4	6.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	11.3	10.1	10.6	13.8	11.6	12.8	17.3	14.4	16.0	21.0	18.4	19.7
2	11.0	9.9	10.5	14.4	12.7	13.5	14.9	13.4	14.2	22.1	20.0	21.0
3	10.1	8.8	9.4	14.4	13.4	13.7	14.7	13.9	14.3	22.6	21.1	21.8
4	9.2	8.4	8.7	13.6	13.1	13.3	15.7	13.9	14.6	23.6	22.2	22.7
5	9.8	8.7	9.2	13.6	12.0	13.1	16.2	13.9	15.0	24.8	22.7	23.4
6	10.1	8.7	9.4	12.1	9.3	10.7	17.2	14.9	16.0	24.2	22.4	23.6
7	10.3	9.4	9.7	9.3	7.9	8.8	19.9	16.8	17.8	22.4	20.8	21.4
8	11.8	9.8	10.8	10.6	8.4	9.1	20.7	18.8	19.6	21.7	20.3	20.9
9	12.8	10.9	11.9	10.2	9.0	9.5	22.7	20.1	21.1	23.6	20.5	21.4
10	13.8	12.2	13.0	10.9	8.3	9.2	22.6	21.2	21.8	23.0	20.8	21.8
11	12.8	11.3	12.0	10.9	9.0	9.9	22.7	21.7	22.2	23.9	22.0	22.9
12	11.3	10.2	10.6	11.8	9.8	10.8	23.7	22.1	22.8	24.2	22.7	23.5
13	11.0	10.2	10.6	14.1	11.4	12.9	24.3	22.6	23.2	24.2	23.2	23.7
14	11.7	10.5	11.0	14.9	13.4	14.1	23.9	22.8	23.3	23.9	22.3	23.3
15	13.6	11.5	12.3	14.9	14.2	14.5	23.1	22.1	22.5	23.2	21.9	22.5
16	15.0	12.6	13.5	15.5	14.3	14.7	22.1	21.2	21.6	22.7	21.5	22.1
17	15.0	13.9	14.5	17.3	14.7	15.6	21.4	18.4	20.2	21.9	20.3	21.1
18	13.9	11.6	12.6	16.7	13.7	15.1	18.4	16.0	17.1	22.6	20.1	21.1
19	12.3	10.6	11.5	14.5	13.4	13.8	17.6	14.4	16.1	25.3	22.2	23.4
20	12.6	11.1	11.7	13.4	12.2	12.7	17.3	16.2	16.8	25.8	23.8	24.6
21	14.4	12.4	13.0	---	---	---	18.4	16.9	17.5	25.1	24.6	24.8
22	13.3	10.8	11.9	13.9	12.4	13.1	20.4	18.0	18.9	25.9	24.7	25.3
23	11.4	10.0	10.7	15.3	12.6	13.7	21.4	19.3	20.3	26.6	25.1	25.6
24	12.2	10.3	11.3	15.0	12.8	14.3	21.9	20.6	21.2	27.9	24.9	25.9
25	12.6	11.1	11.9	14.8	13.1	14.0	21.7	19.4	20.7	27.0	25.2	26.0
26	14.2	12.5	13.4	13.6	12.2	12.9	19.4	17.5	18.5	26.3	25.5	26.0
27	14.4	12.9	13.4	13.3	11.2	12.1	19.2	16.5	17.8	26.4	24.8	25.7
28	13.8	12.5	13.4	12.7	10.5	12.0	20.0	17.8	18.6	25.7	25.1	25.4
29	---	---	---	13.3	11.9	12.5	19.3	18.4	18.9	25.1	24.3	24.7
30	---	---	---	16.1	13.2	14.5	19.5	17.6	18.6	26.1	23.1	24.7
31	---	---	---	17.1	14.7	15.9	---	---	---	25.8	24.5	25.1
MONTH	15.0	8.4	11.5	---	---	---	24.3	13.4	18.9	27.9	18.4	23.4

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	24.4	25.0	30.4	29.1	30.0	27.8	26.0	26.8	28.0	27.3	27.6
2	26.1	25.0	25.5	30.3	28.6	29.4	27.3	26.1	26.7	27.7	26.7	27.2
3	26.6	24.8	25.8	28.6	28.1	28.4	27.9	26.6	27.0	27.0	26.5	26.7
4	27.7	25.1	26.5	29.1	27.9	28.4	29.5	27.2	27.9	26.8	25.8	26.4
5	29.7	26.0	27.2	29.4	28.3	28.7	29.4	27.9	28.5	27.4	25.6	26.5
6	29.6	27.0	28.3	29.2	27.9	28.4	30.2	28.2	29.1	28.0	26.1	26.9
7	29.0	27.0	28.1	28.4	26.8	27.7	31.1	29.0	29.9	27.3	25.7	26.6
8	28.1	26.6	27.1	27.9	26.6	27.2	31.9	29.9	30.7	27.5	25.9	26.6
9	27.5	26.0	26.8	28.4	26.4	27.3	31.9	30.5	31.2	27.2	26.5	26.8
10	28.5	26.6	27.3	29.5	27.5	28.2	31.7	30.8	31.3	28.4	26.3	27.2
11	28.9	26.9	28.2	30.9	28.8	29.5	31.3	30.5	30.8	28.5	27.5	28.1
12	29.0	27.8	28.4	30.3	28.8	29.5	30.9	29.8	30.4	28.3	25.0	27.1
13	29.0	28.1	28.5	29.3	26.7	28.1	30.6	29.7	30.2	27.7	26.1	26.8
14	28.3	27.1	27.7	27.7	25.9	26.7	30.1	29.0	29.5	26.7	25.3	26.0
15	27.3	26.6	26.9	27.9	26.0	26.9	30.4	28.3	29.4	25.7	23.6	24.5
16	29.2	25.7	26.8	28.6	26.6	27.5	29.9	28.6	29.4	23.7	22.4	23.1
17	28.0	26.5	27.2	29.1	27.5	28.2	30.9	28.8	29.8	23.5	21.3	22.4
18	28.9	26.9	27.7	29.3	27.4	28.4	30.8	29.8	30.3	23.5	22.1	22.7
19	30.2	27.3	28.2	29.2	28.4	28.6	---	---	---	23.8	22.7	23.2
20	29.2	27.8	28.2	28.4	27.6	28.1	---	---	---	24.7	22.9	23.7
21	29.7	27.8	28.6	28.1	26.9	27.4	29.8	28.1	28.9	25.4	23.6	24.2
22	29.5	28.2	28.8	28.0	26.7	27.3	30.2	28.6	29.2	26.2	23.8	24.6
23	29.0	28.1	28.5	28.0	27.1	27.6	30.2	29.0	29.5	26.6	24.1	25.2
24	28.7	27.0	28.0	28.1	27.2	27.6	29.9	28.1	29.1	27.0	24.7	26.1
25	28.6	26.9	27.4	28.7	27.7	28.2	28.7	27.2	28.1	26.2	25.0	25.6
26	29.4	26.9	28.0	28.5	27.9	28.3	28.8	26.5	27.6	25.0	23.0	23.8
27	30.5	28.2	28.9	28.3	27.0	27.6	28.5	27.3	27.9	23.5	22.1	23.0
28	30.9	28.2	29.3	27.7	26.3	26.8	28.8	28.1	28.4	23.6	22.4	23.0
29	30.6	28.2	29.7	27.2	26.2	26.8	28.6	28.1	28.4	22.6	21.1	21.9
30	30.6	28.8	29.8	27.0	26.4	26.7	28.8	27.5	28.0	21.1	20.0	20.5
31	---	---	---	27.4	25.4	26.4	28.4	27.4	27.8	---	---	---
MONTH	30.9	24.4	27.7	30.9	25.4	27.9	---	---	---	28.5	20.0	25.1

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.2	21.4	21.9	18.5	17.6	18.2	11.1	10.9	11.0	5.0	4.0	4.7
2	21.6	20.9	21.3	18.3	16.9	17.8	11.2	9.9	10.9	5.1	4.2	4.7
3	21.2	20.9	21.1	17.7	17.2	17.4	10.9	7.1	9.1	5.1	3.9	4.7
4	21.9	21.1	21.3	17.4	17.1	17.3	7.2	6.1	6.7	5.2	4.2	4.9
5	21.7	21.4	21.5	17.5	17.1	17.3	7.0	6.6	6.8	4.9	4.1	4.7
6	22.3	21.5	21.6	17.6	17.4	17.5	7.2	6.7	7.0	4.8	4.3	4.6
7	22.5	21.6	22.0	17.7	17.5	17.6	7.2	6.6	6.8	5.2	4.6	4.9
8	22.8	20.3	22.1	17.6	17.4	17.6	7.4	6.7	7.0	5.2	4.5	4.9
9	22.0	17.0	18.6	18.1	17.5	17.7	7.8	7.2	7.4	4.9	4.6	4.8
10	17.1	16.1	16.6	19.2	17.9	18.4	7.9	7.7	7.8	5.1	4.6	5.0
11	16.8	15.8	16.4	18.5	16.8	17.6	8.1	7.8	7.9	5.5	5.1	5.3
12	16.9	16.2	16.7	16.8	16.2	16.5	8.4	7.9	8.1	5.8	4.9	5.5
13	17.0	16.7	16.9	16.7	15.8	16.2	8.8	8.3	8.5	5.8	5.1	5.5
14	17.2	16.9	17.1	16.5	16.1	16.3	10.2	8.7	9.1	5.9	5.6	5.7
15	17.4	17.1	17.3	16.3	14.8	15.4	10.2	9.2	9.6	6.4	5.8	6.1
16	17.8	17.4	17.6	15.7	14.9	15.4	10.2	9.7	9.9	6.6	6.1	6.4
17	18.5	17.8	18.1	15.5	14.6	15.1	12.0	10.0	11.5	6.8	6.5	6.6
18	19.3	18.3	18.9	14.7	13.1	14.1	11.4	10.2	10.5	7.6	6.6	7.0
19	19.9	19.0	19.4	14.5	12.6	13.8	10.7	9.8	10.4	9.0	7.1	7.4
20	19.8	19.4	19.7	13.7	11.4	11.9	9.8	8.2	8.9	11.3	9.0	9.9
21	20.0	19.7	19.8	12.1	9.9	11.1	8.7	7.4	7.9	10.6	9.2	10.0
22	20.1	19.8	20.0	10.3	8.9	9.5	8.5	7.0	7.9	10.1	8.7	9.8
23	20.2	19.5	20.1	9.4	8.6	9.2	7.0	5.9	6.3	9.4	7.9	8.6
24	20.2	19.4	20.0	9.5	8.3	8.8	6.1	5.0	5.5	8.3	7.3	7.9
25	20.0	19.5	19.9	9.9	8.4	9.0	6.0	4.1	4.9	8.1	6.9	7.7
26	19.9	19.1	19.5	9.9	9.4	9.6	4.9	3.2	4.2	7.2	6.1	6.6
27	19.7	19.0	19.4	10.1	9.7	9.9	4.3	3.8	4.1	7.1	6.3	6.7
28	19.5	19.2	19.4	10.4	10.0	10.2	4.3	3.8	4.1	7.2	6.9	7.1
29	19.6	18.8	19.3	10.7	10.3	10.5	4.3	3.9	4.1	7.4	6.9	7.2
30	19.1	17.7	18.7	10.9	10.5	10.7	4.4	3.8	4.1	9.1	7.3	8.1
31	18.7	18.0	18.4	---	---	---	4.6	3.7	4.2	10.1	8.7	9.2
MONTH	22.8	15.8	19.4	19.2	8.3	14.3	12.0	3.2	7.5	11.3	3.9	6.5

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

TEMPERATURE, WATER (DEG. C), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	10.3	9.3	9.6	13.3	13.0	13.2	15.4	14.1	14.4	20.1	18.6	18.9
2	10.2	9.4	9.7	13.4	13.2	13.3	15.0	13.8	14.3	20.2	19.0	19.3
3	10.1	9.8	10.1	13.4	13.3	13.4	14.8	14.2	14.5	20.6	19.5	19.9
4	10.0	8.6	9.8	13.7	13.4	13.5	15.1	14.3	14.5	21.1	19.8	20.3
5	10.0	9.1	9.5	13.7	13.0	13.5	15.2	14.5	14.7	21.4	20.5	20.9
6	9.9	9.3	9.5	13.4	9.3	10.8	16.1	14.8	15.2	23.5	20.9	21.4
7	10.0	9.6	9.8	9.3	8.4	8.9	16.6	15.4	15.9	22.1	21.1	21.5
8	10.2	9.7	9.9	9.7	9.0	9.2	17.8	15.4	16.2	21.5	20.4	21.1
9	10.8	9.8	10.1	9.6	9.0	9.3	19.3	16.2	17.3	21.4	20.9	21.1
10	12.1	10.4	11.4	9.4	8.5	9.2	20.4	17.1	18.3	21.4	20.9	21.1
11	11.8	10.9	11.3	9.5	9.1	9.4	22.6	19.8	21.7	22.5	21.1	21.5
12	11.5	10.5	11.2	9.8	9.5	9.6	23.4	21.9	22.6	23.7	21.6	22.2
13	11.2	10.5	10.9	13.5	9.7	12.1	23.4	22.5	22.9	23.4	22.3	22.7
14	11.2	10.7	11.0	13.3	12.4	12.8	23.6	22.6	23.0	23.5	22.6	23.1
15	11.3	10.9	11.1	13.7	12.8	13.1	23.3	22.5	22.7	23.5	23.2	23.3
16	14.2	11.1	11.9	14.1	13.1	13.3	22.8	21.4	22.0	23.5	23.2	23.3
17	15.0	13.0	14.3	14.6	13.4	13.8	21.6	18.5	20.7	23.3	22.9	23.2
18	13.9	12.2	12.7	15.5	13.6	14.4	18.5	16.6	17.2	23.2	22.6	22.9
19	12.7	11.1	12.1	14.8	13.4	14.1	17.0	16.1	16.7	23.0	22.4	22.6
20	12.4	11.4	11.8	13.5	12.2	12.7	17.1	16.1	16.6	23.3	22.5	22.7
21	12.7	11.9	12.0	---	---	---	18.3	16.8	17.4	25.0	22.8	23.6
22	12.7	11.1	12.1	13.6	12.4	12.9	20.2	17.9	18.6	25.8	24.4	24.9
23	11.3	10.2	10.6	13.4	12.6	13.1	21.0	19.0	19.8	25.4	25.1	25.2
24	12.1	10.6	11.1	14.9	13.1	13.7	21.9	20.5	21.1	25.4	25.1	25.2
25	12.5	10.7	11.6	14.2	13.6	13.8	21.2	19.4	20.6	26.5	25.1	25.7
26	13.5	12.0	12.4	13.9	13.0	13.5	19.4	17.8	18.5	26.1	25.5	25.8
27	13.6	12.5	12.7	13.5	11.9	12.9	18.5	17.7	18.1	26.0	25.3	25.6
28	13.6	12.7	12.9	13.1	12.6	12.9	18.7	18.1	18.3	25.6	25.1	25.3
29	---	---	---	13.1	12.6	12.9	19.3	18.4	18.7	25.2	25.0	25.1
30	---	---	---	14.0	13.0	13.5	18.7	17.6	18.3	25.0	24.6	24.8
31	---	---	---	15.4	13.6	14.2	---	---	---	25.0	24.6	24.7
MONTH	15.0	8.6	11.2	---	---	---	23.6	13.8	18.4	26.5	18.6	22.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	25.5	24.7	25.0	29.1	28.3	28.6	26.8	26.6	26.7	27.8	27.4	27.6
2	25.4	25.1	25.3	29.2	28.7	29.0	26.8	26.7	26.7	27.8	27.3	27.5
3	25.7	25.3	25.4	28.9	28.0	28.5	26.9	26.7	26.8	27.3	26.6	27.0
4	26.3	25.5	26.0	29.0	28.1	28.5	27.1	26.8	26.9	---	---	---
5	26.5	25.9	26.3	28.8	28.4	28.6	27.4	27.0	27.1	27.1	27.0	27.0
6	26.6	26.2	26.3	28.6	28.4	28.5	28.2	27.2	27.6	27.0	26.9	26.9
7	27.4	26.4	26.8	28.4	27.8	28.3	28.6	27.9	28.2	27.0	26.9	26.9
8	27.7	27.2	27.5	28.3	27.9	28.1	29.5	28.4	28.9	27.0	26.9	27.0
9	27.7	27.4	27.5	27.9	27.6	27.7	31.4	29.0	29.7	27.2	26.9	27.1
10	27.5	27.1	27.3	27.9	27.6	27.7	31.6	30.7	31.1	27.0	26.8	26.9
11	27.4	26.9	27.2	28.0	27.6	27.7	31.2	30.3	30.7	27.5	26.9	27.0
12	27.5	27.1	27.3	28.0	27.7	27.8	30.9	29.8	30.4	27.3	27.1	27.2
13	28.9	27.2	27.9	28.1	27.9	28.0	30.5	29.7	30.1	27.5	27.2	27.4
14	28.3	27.1	27.6	28.1	27.9	28.0	30.1	29.3	29.9	27.5	27.1	27.4
15	27.1	26.5	26.8	27.9	27.8	27.9	30.0	29.6	29.8	27.3	24.3	25.9
16	26.9	26.4	26.7	27.9	27.8	27.8	29.6	29.5	29.6	24.6	22.7	23.2
17	26.8	26.4	26.6	28.2	27.8	28.0	29.6	29.3	29.5	22.9	22.4	22.7
18	26.8	26.6	26.7	28.2	28.0	28.1	30.1	29.5	29.7	22.6	22.3	22.5
19	27.1	26.6	26.8	28.3	28.0	28.1	---	---	---	22.8	22.5	22.6
20	27.1	26.6	26.9	28.5	27.9	28.0	---	---	---	23.0	22.8	22.9
21	27.5	26.8	27.1	28.0	27.0	27.5	29.0	28.7	28.9	23.1	23.0	23.0
22	28.1	27.1	27.4	27.7	27.5	27.6	28.9	28.6	28.7	23.5	23.1	23.3
23	28.1	27.5	27.9	27.6	27.5	27.5	29.0	28.5	28.8	23.9	23.4	23.6
24	28.0	27.8	27.9	28.1	27.4	27.6	28.9	28.8	28.9	26.0	23.8	24.3
25	28.0	27.7	27.9	28.5	27.6	27.9	28.9	28.8	28.9	25.6	24.8	25.1
26	27.8	27.6	27.7	28.8	27.9	28.3	28.9	28.6	28.7	25.0	23.7	24.2
27	28.5	27.6	28.0	28.4	28.0	28.3	28.7	28.3	28.5	24.1	23.4	23.9
28	28.3	27.9	28.0	28.1	27.2	27.8	28.6	28.4	28.5	23.9	22.9	23.5
29	28.5	28.1	28.2	27.7	27.2	27.4	28.6	28.0	28.3	23.5	21.1	22.0
30	28.7	28.2	28.4	27.4	26.8	27.0	28.2	27.7	28.1	21.1	20.0	20.4
31	---	---	---	26.9	26.7	26.8	27.9	27.3	27.6	---	---	---
MONTH	28.9	24.7	27.1	29.2	26.7	28.0	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.3	6.9	7.8	8.5	7.2	7.9	10.4	9.1	9.6	12.3	11.7	12.0
2	8.4	7.2	7.9	8.4	7.3	7.9	10.4	9.3	9.7	12.1	11.8	12.0
3	8.7	5.0	7.8	8.7	6.4	7.9	10.5	9.1	9.8	12.2	11.7	12.0
4	9.1	5.4	8.0	8.8	6.9	8.1	10.9	10.2	10.6	12.4	12.0	12.2
5	10.6	6.9	8.4	8.7	5.7	7.2	11.2	10.1	10.7	12.3	11.7	12.0
6	10.0	7.9	9.1	8.8	6.2	7.0	11.4	10.0	10.7	11.8	11.3	11.6
7	9.6	6.6	7.9	8.7	5.5	7.6	11.5	10.2	11.0	11.8	11.2	11.6
8	8.3	6.3	7.4	9.1	6.2	7.9	11.2	9.3	10.8	11.7	10.6	11.5
9	9.3	7.2	8.4	8.8	7.0	8.4	11.4	10.2	10.9	11.0	10.4	10.8
10	10.2	8.8	9.4	8.6	7.1	7.6	11.1	10.3	10.7	11.0	9.7	10.5
11	11.7	9.6	10.4	7.9	7.1	7.5	11.2	10.1	10.6	11.4	10.5	10.9
12	11.4	9.8	10.7	8.2	7.3	7.7	11.1	10.2	10.6	11.4	10.8	11.1
13	---	---	---	8.4	7.4	8.0	10.8	9.6	10.3	10.9	9.8	10.4
14	---	---	---	8.3	7.6	7.9	10.5	9.6	10.1	---	---	---
15	---	---	---	8.6	7.4	8.0	10.1	9.5	9.8	---	---	---
16	---	---	---	9.3	7.9	8.5	10.3	9.4	9.8	---	---	---
17	---	---	---	9.1	7.6	8.4	10.2	9.2	9.7	---	---	---
18	---	---	---	8.8	7.1	8.2	10.1	9.2	9.6	---	---	---
19	---	---	---	8.3	7.9	8.1	10.1	9.0	9.7	---	---	---
20	---	---	---	8.9	7.6	8.4	10.4	9.3	10.0	---	---	---
21	---	---	---	9.3	8.4	8.8	11.1	10.1	10.5	---	---	---
22	---	---	---	9.4	8.6	9.0	11.3	10.1	10.6	---	---	---
23	---	---	---	9.6	8.9	9.3	11.4	10.5	11.0	---	---	---
24	---	---	---	9.6	9.1	9.4	12.4	11.1	11.6	---	---	---
25	---	---	---	9.6	9.1	9.4	12.5	11.1	11.6	---	---	---
26	7.3	6.2	6.9	9.4	8.9	9.1	12.3	11.6	12.0	---	---	---
27	7.6	5.0	6.6	9.4	8.7	9.1	12.6	11.9	12.1	---	---	---
28	8.4	6.7	7.4	9.8	8.3	9.0	12.2	11.1	11.8	---	---	---
29	8.0	6.7	7.4	9.6	8.5	9.1	12.0	11.2	11.7	---	---	---
30	8.0	7.0	7.6	9.5	8.9	9.2	12.0	11.5	11.7	---	---	---
31	8.2	7.2	7.8	---	---	---	12.0	11.6	11.8	---	---	---
MONTH	---	---	---	9.8	5.5	8.3	12.6	9.0	10.7	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	10.4	8.3	9.2	8.7	8.0	8.3
2	---	---	---	---	---	---	10.3	8.6	9.5	8.6	7.7	8.2
3	---	---	---	---	---	---	10.9	9.3	10.0	8.9	7.4	8.2
4	---	---	---	---	---	---	10.2	9.4	9.8	8.4	7.6	8.0
5	---	---	---	---	---	---	10.9	7.6	9.9	8.1	7.3	7.7
6	---	---	---	---	---	---	10.4	8.9	9.8	8.1	7.3	7.7
7	---	---	---	---	---	---	10.1	8.4	9.3	8.0	7.3	7.6
8	---	---	---	---	---	---	9.4	8.4	8.9	8.5	7.2	7.9
9	---	---	---	11.9	10.4	11.4	10.1	8.3	8.9	8.4	7.3	8.0
10	---	---	---	14.0	10.6	11.6	8.9	7.4	8.3	8.4	6.4	7.8
11	---	---	---	13.4	11.4	12.2	8.0	7.1	7.7	8.0	6.5	7.6
12	---	---	---	13.4	9.8	12.2	7.7	6.7	7.2	7.8	6.5	7.3
13	---	---	---	12.5	10.1	10.7	7.5	6.6	6.9	7.6	6.2	7.0
14	---	---	---	11.7	10.0	10.6	8.4	6.8	7.5	7.6	5.4	6.7
15	---	---	---	11.5	9.7	10.1	8.1	6.9	7.6	7.8	5.8	6.9
16	---	---	---	10.1	8.8	9.6	8.3	6.6	7.4	8.2	7.1	7.5
17	---	---	---	10.4	8.7	9.5	7.9	6.8	7.4	7.7	6.8	7.4
18	---	---	---	9.9	8.0	9.0	8.9	7.5	8.1	8.6	4.9	7.4
19	---	---	---	10.1	9.0	9.6	9.4	8.3	8.8	8.2	5.9	7.6
20	---	---	---	9.8	9.1	9.4	9.3	8.2	8.8	7.7	5.9	7.2
21	---	---	---	---	---	---	9.1	8.6	8.9	7.3	6.5	6.9
22	---	---	---	9.7	8.9	9.3	9.1	8.3	8.7	7.1	6.3	6.7
23	---	---	---	10.0	9.0	9.4	9.0	8.2	8.7	7.7	6.3	6.8
24	---	---	---	9.9	8.6	9.6	8.6	8.1	8.3	8.1	6.3	7.0
25	---	---	---	9.8	8.7	9.0	8.2	7.6	7.9	7.3	5.9	6.8
26	---	---	---	9.9	8.7	9.3	9.0	7.8	8.4	6.8	6.0	6.4
27	---	---	---	10.1	9.1	9.6	9.4	8.4	8.9	7.2	5.6	6.5
28	---	---	---	10.7	9.4	10.1	9.3	8.7	8.9	6.7	6.0	6.4
29	---	---	---	10.3	8.9	9.7	8.9	8.2	8.5	7.5	5.6	6.5
30	---	---	---	9.6	8.3	8.9	8.7	8.0	8.3	7.8	6.4	7.1
31	---	---	---	10.0	7.8	9.0	---	---	---	7.6	6.5	6.9
MONTH	---	---	---	---	---	---	10.9	6.6	8.6	8.9	4.9	7.3

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.3	6.0	6.6	6.6	4.5	5.8	8.9	6.0	7.5	7.3	4.4	6.2
2	7.0	5.7	6.3	6.4	5.3	5.9	8.2	6.4	7.3	7.6	6.0	6.6
3	---	---	---	6.4	5.2	5.9	8.9	6.5	7.6	6.6	4.2	5.5
4	---	---	---	6.8	5.6	6.2	10.1	5.8	7.7	7.2	5.2	6.1
5	8.8	6.3	7.4	7.4	5.6	6.2	8.6	5.6	7.4	7.4	5.0	6.2
6	9.4	5.9	7.6	7.0	5.0	6.2	7.9	5.5	7.2	8.3	4.4	6.9
7	9.0	5.1	6.8	7.4	5.2	6.4	8.2	4.5	7.1	8.0	4.7	6.7
8	7.1	4.8	6.2	7.5	3.0	6.4	9.3	5.9	7.5	8.0	6.4	7.2
9	7.3	3.7	5.9	7.3	3.9	6.0	7.7	6.3	6.9	7.0	5.5	6.4
10	7.5	3.1	6.4	7.7	2.3	6.1	7.1	5.8	6.3	7.2	5.5	6.5
11	7.9	5.9	6.8	8.3	6.8	7.5	6.4	5.5	6.0	8.2	5.3	6.6
12	7.6	6.0	6.6	7.9	3.6	6.9	7.2	5.3	6.1	7.0	4.3	6.0
13	7.0	5.8	6.3	7.2	6.0	6.6	6.7	5.5	5.9	6.9	4.3	5.8
14	7.0	5.9	6.3	7.6	4.9	6.4	8.2	5.1	6.0	7.6	3.9	6.3
15	8.1	5.9	6.7	7.9	4.7	6.8	8.2	5.8	6.7	6.7	4.6	5.9
16	7.8	6.3	7.0	7.7	5.5	7.2	9.5	6.0	7.2	6.8	5.6	6.2
17	8.9	6.3	7.0	7.3	3.8	6.5	8.6	4.8	7.2	9.0	5.6	6.7
18	9.2	5.5	7.4	7.1	5.2	6.4	7.7	6.1	6.7	7.3	4.8	6.4
19	10.9	6.0	8.3	7.0	6.0	6.5	---	---	---	7.3	4.7	6.2
20	9.1	6.7	8.3	7.3	5.7	6.5	---	---	---	7.6	6.3	6.9
21	8.6	5.6	7.7	7.6	5.9	6.7	8.2	6.3	7.2	8.2	4.0	7.2
22	8.4	6.2	7.2	7.8	6.0	7.1	9.6	4.1	7.5	8.2	3.0	6.3
23	7.4	6.0	6.8	7.5	4.6	6.5	9.4	4.2	7.7	8.1	3.6	5.9
24	7.3	5.8	6.7	7.3	6.2	6.8	8.5	4.2	6.3	7.5	3.1	6.3
25	8.1	6.3	7.2	7.4	5.9	6.7	7.7	5.1	6.2	6.2	4.8	5.5
26	---	---	---	7.3	6.2	6.7	10.6	6.0	7.3	6.0	4.7	5.5
27	---	---	---	7.2	6.2	6.7	7.7	4.9	6.6	6.3	5.0	5.5
28	---	---	---	8.0	6.1	6.9	7.4	5.7	6.3	5.8	4.6	5.2
29	7.7	3.6	6.2	8.5	6.0	7.2	6.4	5.2	5.8	6.1	4.7	5.3
30	6.9	4.9	6.1	8.0	6.6	7.1	7.5	5.0	5.8	6.5	5.3	5.9
31	---	---	---	8.5	6.4	7.2	7.9	4.6	5.7	---	---	---
MONTH	---	---	---	8.5	2.3	6.6	---	---	---	9.0	3.0	6.2

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.9	2.5	3.6	4.7	1.3	3.0	7.3	5.7	6.6	10.3	8.5	8.9
2	5.4	4.0	4.7	5.0	1.4	2.7	9.9	5.4	6.5	9.9	7.9	8.5
3	5.4	3.6	4.5	3.6	1.6	2.5	10.8	5.2	8.5	9.8	7.8	8.5
4	4.2	2.4	3.4	2.9	1.4	2.1	11.8	10.1	11.1	9.2	6.4	8.0
5	2.5	1.2	2.0	3.8	2.2	3.2	11.4	10.4	10.9	8.7	7.2	8.0
6	3.9	.9	1.6	3.9	2.9	3.4	11.3	9.8	10.4	8.9	7.7	8.3
7	2.8	.6	1.1	3.6	2.0	2.9	11.6	9.7	10.8	8.5	7.3	7.8
8	5.0	.5	2.2	4.4	2.3	3.0	11.0	9.2	10.5	8.6	7.2	7.8
9	8.0	1.5	6.2	4.3	1.7	2.6	10.6	8.2	9.8	10.1	7.2	9.1
10	8.1	6.9	7.4	8.0	1.7	4.4	10.1	8.4	9.1	10.0	9.4	9.7
11	8.2	6.8	7.3	8.3	7.6	8.0	9.4	7.8	8.7	10.0	8.8	9.3
12	7.2	6.1	6.5	8.1	6.4	7.6	9.7	8.0	8.6	10.0	8.0	8.7
13	7.0	5.0	5.9	8.2	5.7	7.1	8.9	7.0	8.2	10.6	7.6	8.6
14	5.9	3.6	4.6	7.8	5.2	6.3	10.8	6.7	8.0	9.9	7.5	8.6
15	5.2	2.7	3.6	8.1	4.3	6.3	10.0	7.1	7.5	9.9	7.4	8.3
16	3.7	2.2	2.6	6.8	3.4	5.3	9.2	6.5	7.6	---	---	---
17	3.2	2.1	2.6	7.1	4.3	5.7	10.3	6.5	9.6	---	---	---
18	3.2	1.8	2.7	8.4	5.5	6.6	10.1	8.1	9.4	---	---	---
19	2.4	1.0	1.7	7.7	4.9	5.9	9.2	7.9	8.5	---	---	---
20	1.2	.4	.6	9.0	5.2	7.9	10.0	8.3	9.4	---	---	---
21	.6	.4	.5	10.0	7.3	8.7	10.1	8.8	9.7	---	---	---
22	.5	.4	.5	10.1	9.4	9.8	10.3	8.8	9.6	---	---	---
23	1.2	.5	.5	10.2	9.1	9.6	11.1	10.2	10.6	---	---	---
24	1.5	.5	.6	10.3	8.8	9.7	11.0	9.9	10.7	---	---	---
25	1.7	.1	.6	10.1	9.6	9.9	11.6	9.7	11.1	---	---	---
26	6.6	.1	3.0	9.8	9.2	9.5	11.5	9.5	10.9	---	---	---
27	5.7	.5	3.4	9.4	8.5	9.0	11.1	10.2	10.6	---	---	---
28	6.3	2.6	4.4	9.0	7.1	8.3	11.8	10.0	10.5	---	---	---
29	5.0	2.7	4.0	8.3	6.9	7.6	10.5	9.7	10.1	---	---	---
30	5.8	3.9	4.5	8.6	6.4	7.3	10.5	9.2	9.6	---	---	---
31	5.1	2.8	4.0	---	---	---	10.6	8.7	9.6	---	---	---
MONTH	8.2	.1	3.3	10.3	1.3	6.2	11.8	5.2	9.4	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (MG/L), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	6.9	5.1	6.2	9.0	5.8	7.1	7.0	3.6	4.5
2	---	---	---	7.4	4.7	5.6	9.7	7.5	8.9	---	---	---
3	---	---	---	5.5	2.9	4.2	9.5	6.3	8.2	---	---	---
4	---	---	---	5.1	2.5	4.1	8.1	5.7	6.9	---	---	---
5	---	---	---	8.0	2.8	4.4	7.5	5.4	6.6	---	---	---
6	---	---	---	8.3	3.1	7.4	9.1	4.0	5.8	---	---	---
7	---	---	---	8.7	7.2	8.2	8.6	3.4	5.7	---	---	---
8	---	---	---	11.3	7.5	8.9	6.4	2.9	4.5	---	---	---
9	---	---	---	10.8	7.4	9.3	7.0	2.8	4.2	---	---	---
10	---	---	---	10.3	7.4	8.8	6.6	2.1	3.7	---	---	---
11	---	---	---	9.4	6.9	8.2	7.8	2.6	6.5	---	---	---
12	---	---	---	7.6	5.7	6.8	7.8	6.5	7.2	---	---	---
13	---	---	---	10.6	5.1	9.6	7.5	6.2	6.9	---	---	---
14	9.7	5.2	6.8	9.7	7.9	8.8	6.9	3.0	4.7	---	---	---
15	6.7	4.6	5.4	8.1	5.3	6.7	6.9	2.5	3.6	---	---	---
16	10.9	4.5	5.4	7.9	3.6	5.1	8.0	2.3	5.3	3.7	1.1	2.6
17	10.0	5.3	9.0	7.9	3.4	4.9	7.5	1.6	5.3	2.6	1.4	1.7
18	9.8	8.8	9.2	9.0	3.6	6.1	8.5	7.3	7.8	2.2	1.4	1.8
19	9.5	7.6	8.7	9.9	5.3	8.2	8.9	6.3	7.8	3.8	.4	2.0
20	10.3	7.5	9.0	9.7	8.8	9.2	9.1	7.4	8.4	3.5	.7	1.6
21	10.0	7.0	8.5	---	---	---	9.2	8.1	8.7	6.9	.4	2.5
22	9.8	6.2	8.1	9.2	6.4	8.1	8.9	7.8	8.5	6.9	5.3	6.2
23	9.7	6.2	8.5	9.3	5.2	7.9	9.0	8.2	8.7	6.3	2.8	4.6
24	10.5	4.8	6.8	9.3	5.6	7.0	8.9	7.9	8.5	3.9	1.7	2.9
25	9.8	5.1	7.3	8.3	4.7	5.9	8.6	7.9	8.3	6.0	.9	3.3
26	9.6	7.0	8.5	8.4	4.6	6.5	9.4	8.2	8.9	5.4	3.6	4.7
27	9.8	6.4	7.4	8.2	5.4	6.8	9.3	7.1	8.1	5.9	2.8	4.2
28	9.7	5.1	6.5	7.2	4.7	5.7	7.9	6.4	6.9	6.2	3.5	4.7
29	---	---	---	9.3	4.5	6.0	8.9	4.2	6.2	5.2	2.5	3.7
30	---	---	---	8.9	7.9	8.4	9.1	2.9	6.7	---	---	---
31	---	---	---	9.3	6.6	7.9	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	9.7	1.6	6.8	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	1.0	.0	.1	3.8	2.3	3.0	6.0	2.4	4.3
2	---	---	---	.8	.0	.1	3.5	2.0	2.7	7.2	2.3	3.8
3	---	---	---	4.1	.0	1.1	3.0	1.6	2.0	7.0	4.8	5.6
4	---	---	---	6.5	.9	3.7	2.2	1.0	1.5	---	---	---
5	4.0	1.1	2.6	6.1	3.5	4.5	1.9	1.0	1.3	2.9	2.0	2.5
6	2.3	.6	1.1	3.8	1.4	2.4	2.0	.5	1.2	3.1	.8	1.8
7	1.4	.3	.8	1.9	.6	1.1	2.0	.5	1.1	1.0	.7	.8
8	1.4	.2	.7	1.4	.4	.9	3.5	.7	1.5	1.1	.1	.4
9	.7	.1	.4	1.5	.5	.9	5.6	1.0	2.1	4.8	.2	1.1
10	.6	.1	.2	1.2	.1	.5	6.1	4.1	5.2	4.9	.4	1.9
11	.8	.1	.3	.9	.0	.2	5.8	4.5	5.3	3.0	.4	1.2
12	1.2	.2	.7	.3	.1	.2	6.2	4.3	5.2	1.4	.6	.9
13	6.6	.3	2.8	.2	.1	.1	5.6	4.2	5.1	1.0	.5	.7
14	6.2	4.1	5.4	1.3	.1	.4	5.5	3.4	4.5	.9	.6	.7
15	6.6	4.0	5.5	2.4	.3	.7	3.7	2.3	3.1	6.6	.7	3.3
16	5.5	3.2	4.6	1.2	.2	.3	3.2	1.7	2.2	7.1	4.0	6.4
17	4.6	3.2	3.6	1.5	.2	.5	6.7	1.7	2.6	6.5	4.8	5.5
18	3.2	.8	2.4	3.3	.3	1.1	4.2	1.7	2.7	5.1	4.1	4.6
19	2.3	.3	1.1	3.0	.4	1.1	---	---	---	4.3	3.3	3.8
20	.9	.1	.3	5.9	.4	1.3	---	---	---	3.4	2.1	2.7
21	.7	.1	.3	6.0	1.6	3.7	6.2	2.2	4.1	2.4	1.1	1.8
22	1.6	.1	.4	4.1	2.6	3.2	5.5	1.9	2.9	2.0	.5	1.1
23	2.3	.1	1.2	3.2	2.2	2.6	3.0	1.5	2.3	2.1	.6	1.1
24	2.1	.6	1.1	6.8	1.5	3.3	1.8	.8	1.4	6.9	.6	1.8
25	2.1	.9	1.5	6.0	3.9	5.0	1.1	.6	.8	4.9	1.6	2.6
26	1.8	.1	.6	6.3	3.8	5.2	1.6	.6	.9	6.3	1.7	4.3
27	4.3	.1	.9	4.4	2.9	3.6	1.5	.7	.8	5.8	2.7	3.7
28	1.5	.1	.5	4.5	2.9	3.4	5.2	.8	1.3	6.4	2.8	4.0
29	.6	.1	.1	4.7	2.5	3.5	5.5	1.5	3.4	7.0	3.6	6.1
30	.4	.0	.1	4.6	2.5	3.4	5.0	1.1	2.3	7.2	6.4	6.9
31	---	---	---	4.5	3.0	3.6	5.8	3.9	4.6	---	---	---
MONTH	---	---	---	6.8	.0	2.0	---	---	---	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	93	77	87	88	73	81	93	81	85	91	85	88
2	96	80	89	87	75	81	92	82	86	90	87	89
3	102	57	89	89	67	81	87	78	84	91	85	88
4	107	62	93	90	71	83	89	83	86	91	88	90
5	128	80	100	90	59	75	92	83	87	91	88	89
6	123	95	110	90	65	72	95	83	88	90	84	88
7	116	77	94	91	57	79	98	85	91	91	84	88
8	93	71	83	97	65	82	97	78	91	92	83	88
9	99	78	89	93	74	89	96	87	92	86	80	84
10	103	91	97	93	77	82	94	86	90	85	74	81
11	124	97	106	82	75	79	95	85	89	89	81	85
12	120	99	110	85	75	79	97	88	92	90	85	87
13	---	---	---	86	75	81	94	82	88	87	78	83
14	---	---	---	85	77	81	92	82	89	---	---	---
15	---	---	---	85	73	79	91	85	88	---	---	---
16	---	---	---	92	76	83	93	84	88	---	---	---
17	---	---	---	89	74	82	93	84	89	---	---	---
18	---	---	---	84	68	78	92	82	86	---	---	---
19	---	---	---	77	74	76	89	81	86	---	---	---
20	---	---	---	82	70	77	90	82	86	---	---	---
21	---	---	---	83	77	79	95	84	89	---	---	---
22	---	---	---	81	76	78	94	85	89	---	---	---
23	---	---	---	83	77	79	92	86	89	---	---	---
24	---	---	---	83	78	81	99	88	92	---	---	---
25	---	---	---	84	78	81	96	87	91	---	---	---
26	79	67	74	84	79	82	94	87	91	---	---	---
27	83	55	72	84	77	82	96	90	92	---	---	---
28	93	72	81	90	74	82	92	85	90	---	---	---
29	87	72	79	89	77	83	91	84	88	---	---	---
30	85	73	79	86	80	84	91	87	89	---	---	---
31	86	75	80	---	---	---	89	86	87	---	---	---
MONTH	---	---	---	97	57	80	99	78	89	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	108	82	94	98	86	91
2	---	---	---	---	---	---	102	85	93	99	86	92
3	---	---	---	---	---	---	107	91	98	101	84	93
4	---	---	---	---	---	---	102	92	97	97	89	93
5	---	---	---	---	---	---	110	76	99	96	85	91
6	---	---	---	---	---	---	106	89	99	95	86	91
7	---	---	---	---	---	---	106	86	98	89	82	86
8	---	---	---	---	---	---	105	90	98	96	80	88
9	---	---	---	106	91	100	115	92	100	97	83	90
10	---	---	---	127	90	101	102	84	95	96	73	89
11	---	---	---	121	99	108	92	82	88	95	75	89
12	---	---	---	122	86	111	90	79	83	92	77	86
13	---	---	---	115	96	101	89	77	81	90	74	83
14	---	---	---	116	96	103	99	80	88	91	63	78
15	---	---	---	114	95	100	95	79	89	91	67	80
16	---	---	---	100	86	95	94	75	84	96	81	87
17	---	---	---	105	86	96	87	76	82	88	77	84
18	---	---	---	102	79	90	92	78	85	99	57	83
19	---	---	---	98	88	93	96	84	89	96	70	90
20	---	---	---	93	85	89	96	84	91	93	70	87
21	---	---	---	---	---	---	97	89	93	88	78	84
22	---	---	---	94	85	88	101	88	94	87	76	81
23	---	---	---	99	86	91	102	92	96	95	77	83
24	---	---	---	98	84	94	98	91	94	104	76	87
25	---	---	---	96	84	88	93	85	89	92	74	84
26	---	---	---	93	84	88	96	84	89	85	74	79
27	---	---	---	96	84	89	102	88	94	90	69	80
28	---	---	---	101	87	94	102	91	96	82	74	78
29	---	---	---	96	86	91	97	88	92	91	68	79
30	---	---	---	97	83	88	95	84	89	95	78	86
31	---	---	---	104	77	92	---	---	---	93	80	84
MONTH	---	---	---	---	---	---	115	75	92	104	57	86

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), TOP, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	89	73	80	89	59	76	114	75	94	93	56	79
2	86	69	77	86	69	77	104	80	91	96	75	83
3	---	---	---	83	67	76	113	81	96	83	52	69
4	---	---	---	89	71	80	133	74	99	90	65	76
5	114	78	94	97	72	81	111	72	96	94	62	77
6	123	74	98	91	65	80	106	71	94	105	54	87
7	118	64	87	95	65	82	109	59	94	101	59	84
8	90	59	79	95	38	80	127	78	100	101	80	90
9	93	47	74	94	50	76	104	85	94	88	70	81
10	96	40	81	101	29	79	96	78	86	93	70	82
11	103	75	87	109	88	99	86	74	81	105	68	85
12	99	77	86	106	46	91	97	70	81	88	55	76
13	91	75	82	92	75	85	89	72	78	86	54	73
14	89	75	81	96	61	80	109	68	79	95	49	78
15	101	74	84	101	60	86	110	74	88	80	56	71
16	99	78	88	100	70	91	125	79	94	81	66	73
17	114	80	89	94	49	83	112	64	95	106	64	77
18	119	70	95	93	67	83	103	80	90	86	56	74
19	145	77	107	92	78	85	---	---	---	86	55	73
20	119	86	106	94	72	83	---	---	---	90	74	81
21	112	71	100	98	75	85	108	81	93	101	47	86
22	110	81	94	100	76	90	128	54	98	102	36	76
23	96	77	87	95	59	83	125	55	102	101	43	73
24	93	74	85	94	79	86	113	55	83	93	38	78
25	105	80	91	96	76	86	100	65	80	76	59	68
26	---	---	---	95	80	87	137	76	93	71	55	65
27	---	---	---	91	80	85	100	63	84	74	58	65
28	---	---	---	101	77	87	97	73	81	67	54	61
29	102	48	82	107	76	91	83	66	74	69	53	60
30	92	65	80	100	82	89	97	64	75	73	58	66
31	---	---	---	108	78	90	102	58	73	---	---	---
MONTH	---	---	---	109	29	84	---	---	---	106	36	76

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	56	29	41	49	14	31	66	52	60	79	66	70
2	60	46	53	52	15	28	88	49	59	76	61	67
3	60	40	51	38	17	27	90	47	74	76	60	66
4	47	27	38	30	14	22	97	83	91	71	51	63
5	28	14	22	40	23	34	93	85	90	67	56	62
6	46	10	18	41	30	35	92	81	86	69	60	64
7	32	7	13	38	21	30	95	80	89	66	58	61
8	56	5	25	46	24	31	90	77	86	67	57	61
9	85	17	66	45	18	27	88	68	82	79	57	71
10	84	71	76	86	18	47	85	71	77	79	74	76
11	85	70	75	87	80	84	79	66	73	79	69	74
12	74	63	67	83	66	78	82	68	73	79	64	69
13	72	52	61	84	58	73	77	60	70	85	61	68
14	62	38	47	79	53	64	96	58	69	79	60	69
15	54	28	38	80	44	63	90	62	66	81	60	67
16	39	23	27	68	35	53	82	58	67	---	---	---
17	34	23	28	70	43	56	94	58	88	---	---	---
18	34	20	29	80	54	65	91	73	84	---	---	---
19	26	11	18	73	47	57	82	71	76	---	---	---
20	14	4	7	83	50	73	87	73	81	---	---	---
21	6	4	5	90	67	79	85	75	82	---	---	---
22	5	5	5	88	83	86	85	75	81	---	---	---
23	13	5	5	88	79	83	90	83	86	---	---	---
24	17	5	6	89	77	84	88	79	85	---	---	---
25	18	1	7	88	83	86	89	78	87	---	---	---
26	72	1	33	86	81	84	88	74	84	---	---	---
27	62	5	37	83	76	80	84	79	81	---	---	---
28	69	29	48	80	64	74	91	77	81	---	---	---
29	54	29	43	74	62	68	80	74	77	---	---	---
30	61	41	48	78	58	66	80	71	74	---	---	---
31	54	30	42	---	---	---	81	68	74	---	---	---
MONTH	85	1	35	90	14	59	97	47	78	---	---	---

0209318667 NEW RIVER AT CHANNEL LIGHT 50--Continued

OXYGEN DISSOLVED (% OF SATURATION), BOTTOM, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	66	49	60	89	58	70	77	39	48
2	---	---	---	71	45	53	95	73	87	---	---	---
3	---	---	---	53	28	40	94	61	81	---	---	---
4	---	---	---	49	24	39	81	56	68	---	---	---
5	---	---	---	76	27	43	74	54	65	---	---	---
6	---	---	---	73	29	67	91	40	58	---	---	---
7	---	---	---	76	63	71	88	34	58	---	---	---
8	---	---	---	99	65	77	66	29	46	---	---	---
9	---	---	---	94	65	81	76	29	44	---	---	---
10	---	---	---	88	65	76	73	22	39	---	---	---
11	---	---	---	82	61	71	91	29	74	---	---	---
12	---	---	---	67	50	59	91	74	83	---	---	---
13	---	---	---	101	45	90	88	72	80	---	---	---
14	88	48	62	92	75	83	81	34	55	---	---	---
15	61	41	49	76	51	64	81	29	42	---	---	---
16	107	41	50	77	34	49	91	26	61	44	13	30
17	98	51	88	77	32	48	82	18	59	30	16	20
18	92	82	87	89	35	60	88	75	81	26	17	21
19	90	71	81	96	52	80	92	65	81	44	5	23
20	96	69	83	93	83	87	95	77	86	41	8	19
21	93	65	79	---	---	---	98	85	91	84	5	30
22	92	58	76	87	60	77	98	84	91	85	64	75
23	87	56	76	89	50	76	100	90	95	77	34	56
24	98	44	62	93	53	68	102	88	96	47	20	35
25	92	46	67	80	45	58	96	88	92	75	11	41
26	92	65	80	80	44	62	101	88	95	67	45	58
27	94	60	70	78	52	64	99	75	86	73	35	52
28	94	48	62	68	45	54	84	68	74	76	43	58
29	---	---	---	88	43	57	97	45	66	64	31	45
30	---	---	---	86	76	81	97	31	71	---	---	---
31	---	---	---	93	64	77	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	102	18	72	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	13	0	2	48	29	37	76	30	55
2	---	---	---	10	0	2	44	25	34	92	29	49
3	---	---	---	53	0	15	37	20	25	88	60	70
4	---	---	---	85	12	48	27	13	19	---	---	---
5	50	14	32	79	45	59	24	13	16	37	25	31
6	28	7	14	49	18	31	25	7	15	39	10	23
7	18	4	10	24	7	14	26	6	14	12	8	10
8	18	3	9	18	5	11	46	9	19	14	2	6
9	9	2	5	20	7	12	76	12	28	60	3	14
10	7	1	2	16	2	6	83	55	70	62	5	24
11	10	1	3	11	0	2	79	60	71	38	6	15
12	16	2	9	4	1	2	84	57	70	17	7	12
13	85	3	36	3	1	2	75	56	67	13	7	9
14	78	52	68	16	1	6	73	46	60	11	8	8
15	83	50	69	30	4	9	49	31	41	79	9	40
16	69	40	57	15	3	4	42	22	29	84	48	75
17	57	39	45	19	3	6	88	22	34	75	56	64
18	40	21	30	43	4	14	56	23	36	59	48	53
19	29	4	13	39	6	14	---	---	---	50	38	44
20	11	2	4	77	5	17	---	---	---	40	25	32
21	9	2	3	76	20	47	81	29	54	29	13	21
22	21	1	5	53	33	41	72	25	38	23	6	13
23	29	1	15	40	27	33	39	19	30	25	7	12
24	27	8	15	87	19	43	24	10	18	85	7	22
25	27	11	20	78	50	64	14	8	10	60	19	32
26	22	1	8	81	48	67	20	8	11	74	21	51
27	55	2	11	57	37	46	20	9	10	69	32	44
28	19	1	6	57	37	43	68	10	17	75	34	47
29	7	1	2	60	32	44	70	19	43	80	43	70
30	5	0	1	58	31	43	64	14	29	81	71	76
31	---	---	---	56	37	45	75	50	59	---	---	---
MONTH	---	---	---	87	0	26	---	---	---	---	---	---

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°30'28", long 79°02'48", 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.--8,339 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°29'10", long 77°39'31", 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°56'00", long 78°35'00", Wake County, Hydrologic Unit 03020201, at Falls Dam on Neuse River at Falls, 10 mi north of Raleigh, and 235 mi upstream from mouth.

DRAINAGE AREA.--770 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

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 79°08'26", long 36°20'55", 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.--170 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.--7.05 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°41'30", long 78°41'31", Wake County, Hydrologic Unit 03020201, on Swift Creek near Raleigh.

DRAINAGE AREA.-- 38 mi^2, approximately.

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.--67 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 133,680,000 ft^3. Dam was completed Nov. 12, 1976, and reservoir filled Dec. 1, 1976. (See station 02090380.)

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

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	--	271.80	--	10.45	3,363	--
Oct. 31	--	217.40	-54	10.05	3,301	-62
Nov. 30	--	204.90	-13	9.89	3,275	-26
Dec. 31	--	188.70	-16	9.96	3,287	12
CAL YR 2000		--	-175		--	-85
Jan. 31	--	205.50	17	10.51	3,372	85
Feb. 28	--	215.50	10	10.59	3,384	12
Mar. 31	--	275.40	60	11.26	3,496	112
Apr. 30	--	290.10	15	10.49	3,369	-127
May 31	--	348.30	58	10.51	3,372	3
June 30	--	332.10	-16	10.23	3,329	-43
July 31	--	305.90	-26	10.02	3,296	-33
Aug. 31	--	285.50	-20	9.46	3,205	-91
Sept. 30	--	252.70	-33	8.75	3,089	-116
WTR YR 2001		--	-19		--	-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	199.55	19,210	--	129.90	2,953	--
Oct. 31	199.55	19,210	0	129.90	2,953	0
Nov. 30	199.60	19,254	44	130.80	3,122	169
Dec. 31	199.65	19,298	44	129.70	2,916	-206
CAL YR 2000		--	-26		--	0
Jan. 31	199.65	19,298	0	129.70	2,916	0
Feb. 28	199.35	19,036	-262	130.30	3,062	110
Mar. 31	199.87	19,488	452	131.00	3,162	136
Apr. 30	199.51	19,175	-313	129.60	2,898	-264
May 31	199.41	19,088	-87	129.60	2,898	0
June 30	199.85	19,471	383	129.70	2,916	18
July 31	199.74	19,376	-95	130.10	2,990	74
Aug. 31	199.85	19,471	95	130.40	3,044	54
Sept. 30	199.42	19,096	-375	128.30	2,680	-364
WTR YR 2001		--	-114		--	-273

LAKE AND RESERVOIRS IN SOUTH ATLANTIC SLOPE BASIN--Continued

MONTHEND ELEVATION AND CONTENTS AT 2400 HOURS, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

Date	Elevation (feet)	Contents (million cubic feet)	Change in contents (million cubic feet)
		02087182 Falls Lake	
Sept. 30	251.52	5,497	--
Oct. 31	250.48	4,953	-544
Nov. 30	249.98	4,701	-252
Dec. 31	249.90	4,663	-38
CAL YR 2000		--	-1,082
Jan. 31	249.86	4,644	-19
Feb. 28	251.33	5,394	750
Mar. 31	257.34	9,092	3,698
Apr. 30	251.57	5,524	-3,569
May 31	251.03	5,232	-292
June 30	251.43	5,448	216
July 31	251.96	5,735	286
Aug. 31	251.28	5,376	-368
Sept. 30	250.47	4,948	-419
WTR YR 2001		--	-549

DISCHARGE AT PARTIAL-RECORD STATIONS AND 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.

PEAK DISCHARGE STATIONS

The following table contains annual maximum discharges for peak discharge stations. A peak discharge gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

ANNUAL MAXIMUM DISCHARGE AT PEAK DISCHARGE STATIONS DURING WATER YEAR 2001

Station No.	Station name	Location	Drainage area (mi^2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
02084540	Durham Creek at Edward	Lat 35°19'25", long 76°52'26" Beaufort County, Hydrologic Unit 03020104, on left bank 5 ft downstream of bridge on Secondary Road 1949 at Edward, and 6.8 mi upstream from mouth.	26	1950-54, 1956-65, 1966-92†, 1993-00	6-16-01	8.17	182

†Operated as a continuous-record gaging station.

MEASUREMENTS AT MISCELLANEOUS SITES

These measurements and others collected for special reasons are called measurements at miscellaneous sites. Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

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 2001, 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, 1980-2000	10-31-00 3-6-01 6-7-01 9-7-01	5.60 17.5 26.1 4.95
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, 1978-2000	10-16-00 1-22-01 4-23-01 7-19-01	4.77 6.22 3.26 3.94
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, 1979-2000	10-16-00 1-22-01 4-23-01 7-19-01	12.9 47.3 24.7 18.0
PAMLICO RIVER BASIN						
02081547 Fishing Creek	Tar River	Lat 36°20'09", long 78°35'38", 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, 1997-2000	10-16-00 12-5-00 4-23-01 6-5-01	5.10 4.75 11.4 10.4
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	1997-2000	10-17-00 10-20-00 12-6-00 4-20-01 6-5-01	25.3 184 37.0 49.7 33.2
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, 1997-2000	11-29-00 3-22-01 6-4-01 9-13-01	17.1 777 12.9 7.69
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, 1997-2000	10-2-00 3-22-01 4-25-01 9-12-01	0.53 1.25 4.35 0.27

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

The following table includes data from samples collected at 37 sites in North Carolina and Virginia from July through August 2000. These data were collected as part of a larger study, funded cooperatively by the U.S. Environmental Protection Agency and U.S. Geological Survey, to assess the ecological quality of streams in the Albemarle-Pamlico drainage basin.

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
0204410010 MODEST CREEK AT RT 723 NEAR VICTORIA, VA (LAT 37 02 54N LONG 078 12 48W)												
AUG 2000 08...	0204410010	20000808	1915	1.3	765	6.2	78	6.9	88	27.0	29	6.91
02051200 FLAT ROCK CREEK NEAR KENBRIDGE, VA (LAT 36 53 58N LONG 078 07 22W)												
AUG 2000 09...	02051200	20000809	0945	6.0	762	7.2	85	7.0	75	23.4	20	4.97
0206242550 BULL CREEK AT RT 638 NEAR PERTH, VA (LAT 37 01 36N LONG 079 01 12W)												
AUG 2000 08...	0206242550	20000808	1330	.84	765	8.1	98	7.2	66	24.9	19	4.94
0206644810 DUNNAVANT CREEK AT RT 656 NEAR EUREKA, VA (LAT 37 03 47N LONG 078 35 08W)												
AUG 2000 08...	0206644810	20000808	1630	1.2	765	5.8	69	6.9	93	24.4	33	7.53
02078300 AARONS CREEK AT RT 604 NEAR NELSON, VA (LAT 36 35 12N LONG 078 43 00W)												
AUG 2000 08...	02078300	20000808	1030	6.8	765	7.0	84	6.9	82	24.8	28	6.40
0207901010 GRASSY CREEK AT SR1436 NR STOVALL, NC (LAT 36 29 23N LONG 078 37 20W)												
JUL 2000 27...	0207901010	20000727	1418	18	756	7.4	85	6.9	70	22.0	23	5.39
02079022 GRASSY CREEK AT CORNWALL, NC (LAT 36 28 20N LONG 078 39 52W)												
JUL 2000 27...	02079022	20000727	1615	4.7	751	6.4	74	6.9	86	21.2	32	7.06
0207920965 MICHAEL CREEK NEAR TUNGSTEN, NC (LAT 36 27 17N LONG 078 30 31W)												
JUL 2000 27...	0207920965	20000727	1116	0.33	756	5.5	61	6.6	100	20.2	31	7.10
02079717 SMITH CREEK NR PASCHALL, NC (LAT 36 22 23N LONG 078 11 43W)												
AUG 2000 07...	02079717	20000807	1730	47	744	3.8	50	6.5	70	28.5	20	5.04
02080053 DEEP CREEK NEAR THELMA, NC (LAT 36 27 05N LONG 077 46 58W)												
AUG 2000 09...	02080053	20000809	1515	17	764	7.0	85	6.7	75	25.6	27	7.05
02081210 SHELTON CREEK NEAR OXFORD, NC (LAT 36 18 47N LONG 078 43 16W)												
JUL 2000 28...	02081210	20000728	1020	4.5	749	6.5	75	6.7	78	21.3	28	6.15
0208123850 NORTH FORK TAR RIVER NR HEBRON, NC (LAT 36 18 57N LONG 078 41 39W)												
JUL 2000 28...	0208123850	20000728	1217	4.2	749	6.7	78	6.7	70	22.4	22	5.08
0208188420 CROOKED CREEK AT NC 98 NEAR BUNN, NC (LAT 35 56 18N LONG 078 12 33W)												
JUL 2000 13...	0208188420	20000713	1000	5.6	760	4.1	49	6.4	88	24.8	24	6.79

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
0204410010 MODEST CREEK AT RT 723 NEAR VICTORIA, VA (LAT 37 02 54N LONG 078 12 48W)													
AUG 2000 08...	2.96	1.44	4.9	37	45	2.8	<.1	20.0	1.1	75	.033	.28	.32
02051200 FLAT ROCK CREEK NEAR KENBRIDGE, VA (LAT 36 53 58N LONG 078 07 22W)													
AUG 2000 09...	1.79	1.78	5.8	27	33	4.1	<.1	21.7	1.0	66	.028	.17	.22
0206242550 BULL CREEK AT RT 638 NEAR PERTH, VA (LAT 37 01 36N LONG 079 01 12W)													
AUG 2000 08...	1.57	1.35	4.8	25	31	2.3	<.1	21.0	1.0	60	.027	.16	.32
0206644810 DUNNAVANT CREEK AT RT 656 NEAR EUREKA, VA (LAT 37 03 47N LONG 078 35 08W)													
AUG 2000 08...	3.34	1.54	4.5	40	48	2.4	<.1	21.0	1.3	80	.031	.29	.34
02078300 AARONS CREEK AT RT 604 NEAR NELSON, VA (LAT 36 35 12N LONG 078 43 00W)													
AUG 2000 08...	2.91	1.00	4.1	27	33	4.3	<.1	11.4	2.8	68	<.020	.24	.29
0207901010 GRASSY CREEK AT SR1436 NR STOVALL, NC (LAT 36 29 23N LONG 078 37 20W)													
JUL 2000 27...	2.42	1.42	3.5	23	28	3.0	<.1	12.6	3.5	64	.024	.37	.53
02079022 GRASSY CREEK AT CORNWALL, NC (LAT 36 28 20N LONG 078 39 52W)													
JUL 2000 27...	3.43	1.36	3.9	30	37	3.7	<.1	13.6	3.1	67	<.020	.31	.39
0207920965 MICHAEL CREEK NEAR TUNGSTEN, NC (LAT 36 27 17N LONG 078 30 31W)													
JUL 2000 27...	3.32	3.25	4.9	30	37	5.5	.1	8.2	5.3	72	.062	.54	.92
02079717 SMITH CREEK NR PASCHALL, NC (LAT 36 22 23N LONG 078 11 43W)													
AUG 2000 07...	1.88	2.62	4.0	31	38	4.0	<.1	14.1	.8	65	.020	.48	.55
02080053 DEEP CREEK NEAR THELMA, NC (LAT 36 27 05N LONG 077 46 58W)													
AUG 2000 09...	2.30	1.42	4.2	27	34	3.5	.1	16.9	1.2	75	.035	.41	.52
02081210 SHELTON CREEK NEAR OXFORD, NC (LAT 36 18 47N LONG 078 43 16W)													
JUL 2000 28...	3.11	1.44	3.5	27	33	3.0	<.1	13.2	3.2	73	.021	.43	.53
0208123850 NORTH FORK TAR RIVER NR HEBRON, NC (LAT 36 18 57N LONG 078 41 39W)													
JUL 2000 28...	2.30	2.12	3.5	21	25	3.7	<.1	8.1	4.0	66	.055	.50	.68
0208188420 CROOKED CREEK AT NC 98 NEAR BUNN, NC (LAT 35 56 18N LONG 078 12 33W)													
JUL 2000 13...	1.74	1.11	8.1	72	88	4.2	.1	14.6	.4	77	.038	.42	.66

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
0204410010 MODEST CREEK AT RT 723 NEAR VICTORIA, VA (LAT 37 02 54N LONG 078 12 48W)													
AUG 2000 08...	.35	.062	<.010	.25	.29	.38	.017	.010	.031	4.8	<.2	470	129
02051200 FLAT ROCK CREEK NEAR KENBRIDGE, VA (LAT 36 53 58N LONG 078 07 22W)													
AUG 2000 09...	.44	.272	<.010	.14	.19	.49	.015	<.010	.040	3.1	<.2	430	73.5
0206242550 BULL CREEK AT RT 638 NEAR PERTH, VA (LAT 37 01 36N LONG 079 01 12W)													
AUG 2000 08...	.29	.127	<.010	.14	.29	.44	.012	<.010	.032	2.1	.2	260	62.8
0206644810 DUNNAVANT CREEK AT RT 656 NEAR EUREKA, VA (LAT 37 03 47N LONG 078 35 08W)													
AUG 2000 08...	.41	.116	<.010	.26	.31	.45	.008	<.010	.026	4.0	.3	310	304
02078300 AARONS CREEK AT RT 604 NEAR NELSON, VA (LAT 36 35 12N LONG 078 43 00W)													
AUG 2000 08...	.39	.148	<.010	--	--	.44	.007	<.010	.024	4.2	<.2	190	39.8
0207901010 GRASSY CREEK AT SR1436 NR STOVALL, NC (LAT 36 29 23N LONG 078 37 20W)													
JUL 2000 27...	.55	.179	<.010	.34	.51	.71	.015	.012	.056	7.2	.6	280	82.0
02079022 GRASSY CREEK AT CORNWALL, NC (LAT 36 28 20N LONG 078 39 52W)													
JUL 2000 27...	.68	.372	<.010	--	--	.76	.019	.011	.058	5.1	.3	270	59.9
0207920965 MICHAEL CREEK NEAR TUNGSTEN, NC (LAT 36 27 17N LONG 078 30 31W)													
JUL 2000 27...	.83	.289	<.010	.48	.86	1.2	.013	<.010	.130	6.8	1.8	90	280
02079717 SMITH CREEK NR PASCHALL, NC (LAT 36 22 23N LONG 078 11 43W)													
AUG 2000 07...	--	<.050	<.010	.46	.53	--	.031	.020	.088	8.7	.4	840	355
02080053 DEEP CREEK NEAR THELMA, NC (LAT 36 27 05N LONG 077 46 58W)													
AUG 2000 09...	.48	.067	<.010	.38	.49	.59	.022	.010	.055	8.9	.3	1010	373
02081210 SHELTON CREEK NEAR OXFORD, NC (LAT 36 18 47N LONG 078 43 16W)													
JUL 2000 28...	.56	.126	<.010	.41	.51	.65	.017	<.010	.046	8.2	<.2	570	75.8
0208123850 NORTH FORK TAR RIVER NR HEBRON, NC (LAT 36 18 57N LONG 078 41 39W)													
JUL 2000 28...	.71	.206	<.010	.45	.62	.89	.025	<.010	.079	9.9	<.2	590	94.8
0208188420 CROOKED CREEK AT NC 98 NEAR BUNN, NC (LAT 35 56 18N LONG 078 12 33W)													
JUL 2000 13...	--	<.050	<.010	.39	.62	--	.024	.013	.071	7.2	.5	690	625

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
02082835 FISHING CREEK NEAR WARRENTON, NC (LAT 36 23 00N LONG 078 10 54W)												
AUG 2000 07...	02082835	20000807	1430	48	760	6.8	84	7.1	69	25.6	20	4.91
0208298562 ROCKY SWAMP AT SR1214 NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 33W)												
AUG 2000 09...	0208298562	20000809	1800	12	765	6.9	89	7.1	85	28.6	31	7.95
02084318 HORSEPEN SWAMP AT LEGGETTS CROSSROADS, NC (LAT 35 40 30N LONG 077 09 32W)												
AUG 2000 01...	02084318	20000801	1422	0.5e	762	3.1	39	5.5	92	26.5	26	7.45
02085000 ENO RIVER AT HILLSBOROUGH, NC (LAT 36 04 18N LONG 079 05 49W)												
JUL 2000 11...	02085000	20000711	1015	4.5	747	5.6	70	6.6	105	25.9	34	7.72
02085390 NORTH FLAT RIVER AT TIMBERLAKE, NC (LAT 36 17 24N LONG 078 56 43W)												
JUL 2000 11...	02085390	20000711	1415	7.2	747	7.6	93	6.9	86	24.8	24	5.65
02085430 DEEP CREEK NEAR MORIAH, NC (LAT 36 14 24N LONG 078 53 20W)												
JUL 2000 12...	02085430	20000712	1000	3.0	752	6.9	83	6.8	75	24.3	25	5.80
0208707215 NEW LIGHT CREEK AT SR1911 NEAR PURNELL, NC (LAT 36 01 37N LONG 078 36 06W)												
JUL 2000 12...	0208707215	20000712	1300	9.1	756	7.6	91	6.8	64	23.9	18	4.11
02087188 RICHLAND CREEK NEAR FORESTVILLE, NC (LAT 35 57 42N LONG 078 32 33W)												
JUL 2000 12...	02087188	20000712	1445	6.2	757	6.5	78	7.0	90	23.8	26	6.72
02087204 SMITH CREEK NEAR ROLESVILLE, NC (LAT 35 55 10N LONG 078 32 04W)												
AUG 2000 11...	02087204	20000811	1445	17	760	7.6	93	7.1	102	25.6	27	7.41
02087359 WALNUT CREEK AT SUNNYBROOK DRIVE NR RALEIGH, NC (LAT 35 45 30N LONG 078 34 58W)												
JUL 2000 14...	02087359	20000714	1000	8.5	750	6.7	80	6.6	155	23.2	41	11.4
02087436 MARKS CREEK NEAR CLAYTON, NC (LAT 35 42 22N LONG 078 25 54W)												
AUG 2000 10...	02087436	20000810	1730	13	763	7.6	98	6.7	75	28.4	19	5.23
02087580 SWIFT CREEK NEAR APEX, NC (LAT 35 43 07N LONG 078 45 09W)												
JUL 2000 14...	02087580	20000714	1315	4.9	752	7.1	87	6.6	83	24.9	23	6.43
02087946 MIDDLE CREEK NEAR BANKS, NC (LAT 35 38 32N LONG 078 44 33W)												
JUL 2000 14...	02087946	20000714	1130	28	754	6.3	78	6.7	174	25.1	29	8.12

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
02082835 FISHING CREEK NEAR WARRENTON, NC (LAT 36 23 00N LONG 078 10 54W)													
AUG 2000 07...	1.96	2.05	4.2	27	33	3.5	<.1	14.7	1.2	66	.020	.37	.39
0208298562 ROCKY SWAMP AT SR1214 NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 33W)													
AUG 2000 09...	2.76	2.04	3.2	34	42	3.0	.1	14.4	1.2	79	.032	.53	.55
02084318 HORSEPEN SWAMP AT LEGGETTS CROSSROADS, NC (LAT 35 40 30N LONG 077 09 32W)													
AUG 2000 01...	1.72	2.46	4.5	15	18	6.2	<.1	8.4	15.2	93	.049	.65	.80
02085000 ENO RIVER AT HILLSBOROUGH, NC (LAT 36 04 18N LONG 079 05 49W)													
JUL 2000 11...	3.48	1.32	5.9	62	76	6.7	<.1	13.8	5.2	76	.034	.26	.36
02085390 NORTH FLAT RIVER AT TIMBERLAKE, NC (LAT 36 17 24N LONG 078 56 43W)													
JUL 2000 11...	2.47	1.45	6.7	50	62	6.9	.1	16.3	2.1	72	<.020	.16	.43
02085430 DEEP CREEK NEAR MORIAH, NC (LAT 36 14 24N LONG 078 53 20W)													
JUL 2000 12...	2.67	1.22	3.9	51	63	4.4	<.1	9.6	1.9	55	<.020	.24	.36
0208707215 NEW LIGHT CREEK AT SR1911 NEAR PURNELL, NC (LAT 36 01 37N LONG 078 36 06W)													
JUL 2000 12...	1.99	2.01	4.2	47	57	3.1	<.1	17.1	1.4	56	.040	.26	.56
02087188 RICHLAND CREEK NEAR FORESTVILLE, NC (LAT 35 57 42N LONG 078 32 33W)													
JUL 2000 12...	2.29	1.91	6.2	63	77	5.3	<.1	19.3	2.4	66	.020	.15	.25
02087204 SMITH CREEK NEAR ROLESVILLE, NC (LAT 35 55 10N LONG 078 32 04W)													
AUG 2000 11...	2.12	2.24	7.5	31	37	6.0	<.1	18.7	3.9	82	.037	.31	.38
02087359 WALNUT CREEK AT SUNNYBROOK DRIVE NR RALEIGH, NC (LAT 35 45 30N LONG 078 34 58W)													
JUL 2000 14...	3.07	2.78	11.3	82	100	11.1	.2	13.7	8.2	103	.085	.32	.34
02087436 MARKS CREEK NEAR CLAYTON, NC (LAT 35 42 22N LONG 078 25 54W)													
AUG 2000 10...	1.52	1.29	7.0	26	32	4.5	<.1	18.4	.7	74	.031	.42	.49
02087580 SWIFT CREEK NEAR APEX, NC (LAT 35 43 07N LONG 078 45 09W)													
JUL 2000 14...	1.78	2.34	5.2	22	27	6.1	<.1	5.8	4.0	61	.041	.38	.44
02087946 MIDDLE CREEK NEAR BANKS, NC (LAT 35 38 32N LONG 078 44 33W)													
JUL 2000 14...	2.21	4.74	18.8	71	87	14.4	.3	10.4	12.6	119	.059	.56	.65

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
02082835 FISHING CREEK NEAR WARRENTON, NC (LAT 36 23 00N LONG 078 10 54W)													
AUG 2000 07...	.45	.072	<.010	.35	.37	.46	.011	<.010	.036	6.0	.3	640	211
0208298562 ROCKY SWAMP AT SR1214 NEAR RINGWOOD, NC (LAT 36 13 35N LONG 077 48 33W)													
AUG 2000 09...	--	<.050	<.010	.50	.52	--	.027	.014	.057	11	.4	1100	403
02084318 HORSEPEN SWAMP AT LEGGETTS CROSSROADS, NC (LAT 35 40 30N LONG 077 09 32W)													
AUG 2000 01...	--	<.050	<.010	.60	.75	--	.051	.028	.126	17	.7	990	95.8
02085000 ENO RIVER AT HILLSBOROUGH, NC (LAT 36 04 18N LONG 079 05 49W)													
JUL 2000 11...	.51	.245	<.010	.23	.33	.60	.012	<.010	.025	4.0	.2	270	188
02085390 NORTH FLAT RIVER AT TIMBERLAKE, NC (LAT 36 17 24N LONG 078 56 43W)													
JUL 2000 11...	.53	.365	<.010	--	--	.80	.014	.011	.054	8.9	<.2	30	35.5
02085430 DEEP CREEK NEAR MORIAH, NC (LAT 36 14 24N LONG 078 53 20W)													
JUL 2000 12...	.43	.190	<.010	--	--	.55	.007	<.010	.025	5.0	.3	350	71.1
0208707215 NEW LIGHT CREEK AT SR1911 NEAR PURNELL, NC (LAT 36 01 37N LONG 078 36 06W)													
JUL 2000 12...	.49	.231	<.010	.22	.52	.79	.014	.010	.122	4.9	2.2	360	137
02087188 RICHLAND CREEK NEAR FORESTVILLE, NC (LAT 35 57 42N LONG 078 32 33W)													
JUL 2000 12...	.44	.293	<.010	.13	.23	.54	.009	.011	.035	2.6	.4	130	67.4
02087204 SMITH CREEK NEAR ROLESVILLE, NC (LAT 35 55 10N LONG 078 32 04W)													
AUG 2000 11...	1.1	.767	<.010	.27	.34	1.1	.029	.023	.079	4.8	.4	290	162
02087359 WALNUT CREEK AT SUNNYBROOK DRIVE NR RALEIGH, NC (LAT 35 45 30N LONG 078 34 58W)													
JUL 2000 14...	.92	.598	.011	.24	.26	.94	.006	<.010	.032	4.3	.5	180	182
02087436 MARKS CREEK NEAR CLAYTON, NC (LAT 35 42 22N LONG 078 25 54W)													
AUG 2000 10...	.50	.076	<.010	.39	.46	.57	.044	.028	.081	7.8	.3	1520	320
02087580 SWIFT CREEK NEAR APEX, NC (LAT 35 43 07N LONG 078 45 09W)													
JUL 2000 14...	.58	.201	<.010	.34	.40	.64	.016	<.010	.046	8.0	.2	240	53.6
02087946 MIDDLE CREEK NEAR BANKS, NC (LAT 35 38 32N LONG 078 44 33W)													
JUL 2000 14...	1.1	.575	.013	.50	.59	1.2	.114	.093	.153	7.9	.4	350	73.1

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
	02088240 HANNAH CREEK NEAR BLACKMON, NC (LAT 35 23 45N LONG 078 25 53W)											
AUG 2000 11...	02088240	20000811	1030	47	763	1.8	22	6.3	96	25.9	30	7.19
	0208845773 BUFFALO CREEK AT SR1941 NEAR FLOWERS, NC (LAT 35 38 03N LONG 078 19 10W)											
JUL 2000 13...	0208845773	20000713	1315	7.1	759	4.6	55	6.5	78	23.8	25	6.68
	02089034 STONY CREEK NEAR GOLDSBORO, NC (LAT 35 20 54N LONG 077 58 49W)											
JUL 2000 25...	02089034	20000725	1123	12	760	6.1	70	6.5	89	22.4	24	6.55
	02089263 BEAR CREEK NEAR MAYS STORE, NC (LAT 35 14 56N LONG 077 47 04W)											
JUL 2000 25...	02089263	20000725	1425	23	760	7.2	82	6.2	94	21.3	24	5.35
	02089383 FALLING CREEK BELOW SEO AT FALLING CREEK, NC (LAT 35 15 16N LONG 077 40 22W)											
JUL 2000 25...	02089383	20000725	1631	--	760	6.8	79	6.6	91	22.8	25	6.09
	02089686 BRIERY RUN AT SR1732 NEAR GRAINGERS, NC (LAT 35 18 39N LONG 077 32 47W)											
JUL 2000 31...	02089686	20000731	1707	3.4	762	8.2	98	6.4	125	24.4	44	13.8
	02089730 MOSELYS CREEK NEAR GRIFTON, NC (LAT 35 19 48N LONG 077 25 38W)											
AUG 2000 01...	02089730	20000801	0856	46	762	6.4	77	6.5	160	24.6	59	20.5
	0209075800 TOISNOT SWAMP AT US 264 NEAR WILSON, NC (LAT 35 41 50N LONG 077 51 17W)											
AUG 2000 10...	0209075800	20000810	1000	146	764	5.3	67	6.6	75	27.1	25	5.45
	02091604 LITTLE CONTENTNEA CREEK NR FOUNTAIN, NC (LAT 35 36 52N LONG 077 37 00W)											
AUG 2000 10...	02091604	20000810	1300	8.8	766	4.8	59	6.2	92	25.7	24	6.04
	0209187340 FORK SWAMP AT SR1711 NEAR WORTHINGTON XROADS, NC (LAT 35 31 36N LONG 077 22 10W)											
JUL 2000 31...	0209187340	20000731	1333	7.5	762	8.7	104	6.6	90	24.5	26	8.74
	02091957 CLAYROOT SWAMP AT SR1941 NEAR CLAYROOT, NC (LAT 35 23 06N LONG 077 14 53W)											
AUG 2000 01...	02091957	20000801	1104	13	762	8.6	105	6.5	162	25.2	50	16.2

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
02088240 HANNAH CREEK NEAR BLACKMON, NC (LAT 35 23 45N LONG 078 25 53W)													
AUG 2000 11...	2.89	2.86	5.7	26	32	8.5	.1	6.4	1.2	105	.077	1.00	1.2
0208845773 BUFFALO CREEK AT SR1941 NEAR FLOWERS, NC (LAT 35 38 03N LONG 078 19 10W)													
JUL 2000 13...	2.12	.77	5.7	60	74	3.2	.1	11.8	.5	80	.050	.58	.65
02089034 STONY CREEK NEAR GOLDSBORO, NC (LAT 35 20 54N LONG 077 58 49W)													
JUL 2000 25...	1.75	1.80	5.4	23	28	7.5	<.1	5.4	8.9	58	.068	.43	.48
02089263 BEAR CREEK NEAR MAYS STORE, NC (LAT 35 14 56N LONG 077 47 04W)													
JUL 2000 25...	2.58	2.69	4.3	4	5	7.9	.1	10.2	12.9	59	.045	.26	.34
02089383 FALLING CREEK BELOW SEO AT FALLING CREEK, NC (LAT 35 15 16N LONG 077 40 22W)													
JUL 2000 25...	2.36	1.90	5.4	16	20	7.8	<.1	7.5	6.1	61	.034	.38	.58
02089686 BRIERY RUN AT SR1732 NEAR GRAINGERS, NC (LAT 35 18 39N LONG 077 32 47W)													
JUL 2000 31...	2.23	2.67	4.3	27	33	7.3	<.1	4.5	15.2	99	.045	.49	.62
02089730 MOSELYS CREEK NEAR GRIFTON, NC (LAT 35 19 48N LONG 077 25 38W)													
AUG 2000 01...	1.91	3.54	4.2	45	54	10.3	<.1	6.1	12.7	125	.058	.69	.74
0209075800 TOISNOT SWAMP AT US 264 NEAR WILSON, NC (LAT 35 41 50N LONG 077 51 17W)													
AUG 2000 10...	2.72	2.15	4.0	18	23	7.1	<.1	6.4	2.5	84	.081	.91	.94
02091604 LITTLE CONTENTNEA CREEK NR FOUNTAIN, NC (LAT 35 36 52N LONG 077 37 00W)													
AUG 2000 10...	2.10	3.94	4.7	10	13	9.2	.1	6.9	6.2	102	.222	1.2	1.1
0209187340 FORK SWAMP AT SR1711 NEAR WORTHINGTON XROADS, NC (LAT 35 31 36N LONG 077 22 10W)													
JUL 2000 31...	1.07	2.10	4.7	31	38	6.4	<.1	7.0	9.6	68	.044	.31	.48
02091957 CLAYROOT SWAMP AT SR1941 NEAR CLAYROOT, NC (LAT 35 23 06N LONG 077 14 53W)													
AUG 2000 01...	2.26	3.90	6.8	32	39	10.2	<.1	10.2	20.6	118	.087	.59	.66

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

WATER-QUALITY DATA, FOR PERIOD JULY TO AUGUST 2000

DATE	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
02088240 HANNAH CREEK NEAR BLACKMON, NC (LAT 35 23 45N LONG 078 25 53W)													
AUG 2000 11...	--	<.050	<.010	.92	1.1	--	.157	.119	.303	20	1.7	4680	570
0208845773 BUFFALO CREEK AT SR1941 NEAR FLOWERS, NC (LAT 35 38 03N LONG 078 19 10W)													
JUL 2000 13...	.67	.082	<.010	.53	.60	.73	.079	.062	.159	12	.5	2030	660
02089034 STONY CREEK NEAR GOLDSBORO, NC (LAT 35 20 54N LONG 077 58 49W)													
JUL 2000 25...	.72	.293	<.010	.36	.41	.77	.052	.038	.102	6.2	.2	700	12.8
02089263 BEAR CREEK NEAR MAYS STORE, NC (LAT 35 14 56N LONG 077 47 04W)													
JUL 2000 25...	2.2	1.91	<.010	.22	.29	2.3	.022	.017	.116	2.7	.5	90	23.5
02089383 FALLING CREEK BELOW SEO AT FALLING CREEK, NC (LAT 35 15 16N LONG 077 40 22W)													
JUL 2000 25...	1.6	1.22	<.010	.34	.54	1.8	.070	.049	.152	6.3	.2	500	12.8
02089686 BRIERY RUN AT SR1732 NEAR GRAINGERS, NC (LAT 35 18 39N LONG 077 32 47W)													
JUL 2000 31...	.79	.300	<.010	.44	.58	.92	.061	.047	.152	9.8	.6	700	20.6
02089730 MOSELYS CREEK NEAR GRIFTON, NC (LAT 35 19 48N LONG 077 25 38W)													
AUG 2000 01...	1.5	.763	.014	.63	.69	1.5	.096	.066	.140	15	.3	390	13.9
0209075800 TOISNOT SWAMP AT US 264 NEAR WILSON, NC (LAT 35 41 50N LONG 077 51 17W)													
AUG 2000 10...	.96	.054	<.010	.83	.86	.99	.074	.043	.144	18	.8	1340	71.4
02091604 LITTLE CONTENTNEA CREEK NR FOUNTAIN, NC (LAT 35 36 52N LONG 077 37 00W)													
AUG 2000 10...	1.6	.423	.016	.93	.92	1.6	.231	.170	.311	21	.8	1450	51.4
0209187340 FORK SWAMP AT SR1711 NEAR WORTHINGTON XROADS, NC (LAT 35 31 36N LONG 077 22 10W)													
JUL 2000 31...	.51	.206	<.010	.26	.44	.69	.035	.027	.096	6.3	.4	260	7.0
02091957 CLAYROOT SWAMP AT SR1941 NEAR CLAYROOT, NC (LAT 35 23 06N LONG 077 14 53W)													
AUG 2000 01...	1.0	.449	.013	.51	.58	1.1	.119	.083	.219	9.5	.2	270	14.9

Remark codes used in this report:
< -- Less than

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY MISCELLANEOUS SAMPLING SITES

The following table includes data from samples collected at 55 sites in North Carolina and Virginia from June through August 2001. These data were collected as part of a larger study, funded cooperatively by the U.S. Environmental Protection Agency and U.S. Geological Survey, to assess the ecological quality of streams in the Albemarle-Pamlico drainage basin.

WATER-QUALITY DATA, FOR PERIOD JUNE TO AUGUST 2001

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
02044250 CARY'S CREEK AT RT 633 NEAR BURKEVILLE, VA (LAT 37 08 52N LONG 078 11 08W)										
JUL 2001 19...	02044250	20010719	1215	.43	757	7.7	89	6.9	110	22.0
02045880 WHITE OAK CREEK AT RT 624 NR WILKINSON'S STORE, VA (LAT 37 05 33N LONG 077 39 46W)										
JUL 2001 19...	02045880	20010719	1554	.74	757	2.7	31	6.5	83	22.0
02051600 GREAT CREEK NEAR CHOCHRAN, VA (LAT 36 48 46N LONG 077 55 21W)										
JUL 2001 20...	02051600	20010720	1030	4.8	764	7.9	88	6.7	64	20.5
02053500 AHOSKIE CREEK AT AHOSKIE, NC (LAT 36 16 48N LONG 077 00 00W)										
JUL 2001 13...	02053500	20010713	1015	6.0	761	6.9	80	6.3	131	22.5
02053778 ELLIOT CREEK AT RT 675 NEAR ALLEGHANY SPRINGS, VA (LAT 37 06 42N LONG 080 18 30W)										
JUN 2001 18...	02053778	20010618	1700	12	740	8.2	97	8.4	402	22.0
02055098 TINKER CREEK AT IVY LANE NEAR DALEVILLE, VA (LAT 37 25 12N LONG 079 56 04W)										
JUN 2001 19...	02055098	20010619	0830	4.2	740	8.5	93	7.8	529	18.0
02056290 BACK CREEK AT RT 688 NEAR STARKEY, VA (LAT 37 12 03N LONG 080 02 00W)										
JUN 2001 19...	02056290	20010619	1700	6.7	740	8.4	105	8.0	142	25.0
02056800 S F BLACKWATER RIVER AB STP AT CALLAWAY, VA (LAT 37 00 39N LONG 080 02 53W)										
JUN 2001 18...	02056800	20010618	1400	10	740	8.0	98	7.0	64	24.0
0205695150 MAGGODEE CREEK AT HWY 220 NEAR BOONES MILL, VA (LAT 37 07 32N LONG 079 57 35W)										
JUN 2001 19...	0205695150	20010619	1400	4.5	740	8.7	105	7.3	77	23.0
02058100 TURKEYCOCK CREEK AT RT 969 AT SAGO, VA (LAT 36 52 53N LONG 079 37 52W)										
JUN 2001 27...	02058100	20010627	1000	11	763	8.5	95	6.8	49	21.0
02058300 TOMAHAWK CREEK NEAR CLIMAX, VA (LAT 36 52 57N LONG 079 32 25W)										
JUN 2001 27...	02058300	20010627	1230	4.0	763	7.9	99	6.7	53	27.0
02061200 LITTLE OTTER RIVER AT RT 122 NEAR BEDFORD, VA (LAT 37 21 41N LONG 079 30 03W)										
JUN 2001 20...	02061200	20010620	1100	5.0	748	8.2	96	6.9	126	22.0
02062350 STRAIGHTSTONE CREEK NEAR STRAIGHTSTONE, VA (LAT 37 01 11N LONG 079 09 19W)										
JUL 2001 18...	02062350	20010718	1230	.20	757	6.5	76	6.8	85	23.0

WATER-QUALITY DATA, FOR PERIOD JUNE TO AUGUST 2001

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
02063400 REDDY CREEK NEAR SPRING MILLS, VA (LAT 37 16 54N LONG 078 54 14W)										
JUN 2001 20...	02063400	20010620	1644	2.7	748	8.0	97	7.2	67	24.0
02063797 MOLLY'S CREEK AT RT 607 NEAR WINFALL, VA (LAT 37 12 50N LONG 079 04 14W)										
JUN 2001 20...	02063797	20010620	1300	1.8	748	7.7	90	6.9	97	22.0
02064500 LITTLE FALLING RIVER AT HAT CREEK, VA (LAT 37 07 50N LONG 078 54 50W)										
JUN 2001 21...	02064500	20010621	1400	9.5	757	7.6	90	6.7	60	23.5
02065220 CATAWBA CREEK AT RT 626 AT CLARKTON, VA (LAT 36 58 30N LONG 078 53 45W)										
JUL 2001 18...	02065220	20010718	0950	3.4	757	8.2	93	7.0	84	21.0
02065400 BIG CUB CREEK AT RT 701 NEAR MADISONVILLE, VA (LAT 37 12 13N LONG 078 44 05W)										
JUN 2001 21...	02065400	20010621	1040	15	757	7.7	88	6.5	64	21.5
02069030 BELEWS CREEK NEAR KERNERSVILLE, NC (LAT 36 12 20N LONG 080 04 25W)										
JUL 2001 26...	02069030	20010726	1030	6.5	743	7.1	83	7.0	152	22.0
02069550 N F SOUTH MAYO RIVER AT US HWY 58 AT STUART, VA (LAT 36 39 03N LONG 080 17 08W)										
JUN 2001 25...	02069550	20010625	1245	12	738	8.8	97	6.9	62	18.5
02071410 MATRIMONY CREEK NEAR LEAKSVILLE, NC (LAT 36 31 39N LONG 079 50 08W)										
JUN 2001 28...	02071410	20010628	1130	3.6	761	9.0	106	7.0	70	23.5
02071530 SMITH RIVER AT SMITH RIVER CHURCH NR WOOLWINE, VA (LAT 36 46 42N LONG 080 14 58W)										
JUN 2001 25...	02071530	20010625	1530	32	738	8.8	100	7.3	112	20.0
02071803 NICHOLAS CREEK AT RT 778 NEAR PRILLMAN, VA (LAT 36 51 22N LONG 080 03 07W)										
JUL 2001 25...	02071803	20010725	1500	2.7	756	8.6	103	7.5	62	24.0
02072600 REED CREEK NEAR COLLINSVILLE, NC (LAT 36 45 17N LONG 079 54 48W)										
JUN 2001 26...	02072600	20010626	1000	5.4	753	8.9	101	6.9	82	21.0
0207408375 CASCADE CREEK AT RT 855 NEAR CASCADE, VA (LAT 36 35 13N LONG 079 40 51W)										
AUG 2001 30...	0207408375	20010830	1200	1.5	750	8.0	94	7.1	85	22.5
02074084 CASCADE CREEK AT CASCADE, VA (LAT 36 34 03N LONG 079 40 42W)										
JUN 2001 26...	02074084	20010626	1600	4.0	753	8.2	100	7.3	92	24.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WATER-QUALITY DATA, FOR PERIOD JUNE TO AUGUST 2001

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
02074450 SANDY RIVER NEAR SWANSONVILLE, VA (LAT 36 44 23N LONG 079 36 54W)										
JUN 2001 26...	02074450	20010626	1330	8.4	753	8.1	97	6.9	74	24.0
0207517215 MOON CREEK AT SR1511 NR PROVIDENCE, NC (LAT 36 30 27N LONG 079 20 09W)										
JUN 2001 14...	0207517215	20010614	1245	12	748	7.4	87	6.8	96	22.5
0207519125 CANE CREEK UPSTREAM SR1527 NR MILTON, NC (LAT 36 32 28N LONG 079 15 48W)										
JUN 2001 14...	0207519125	20010614	1510	5.8	748	7.3	88	7.1	131	23.5
02075275 SANDY CREEK (RIVER) AT US HWY 58 NR RINGGOLD, VA (LAT 36 34 50N LONG 079 13 31W)										
JUN 2001 28...	02075275	20010628	0800	3.8	761	8.4	95	6.8	121	21.5
02075800 MIRY CREEK AT RT 681 NEAR DANRIPPLE, VA (LAT 36 41 29N LONG 079 00 41W)										
JUN 2001 15...	02075800	20010615	1015	6.2	762	7.2	82	6.6	79	21.5
02076220 BEARSKIN CREEK AT RT 612 NEAR CHATHAM, VA (LAT 36 48 00N LONG 079 28 23W)										
JUN 2001 27...	02076220	20010627	1630	4.6	763	8.0	93	6.7	48	23.0
02076740 ELKHORN CREEK NEAR RICEVILLE, VA (LAT 36 52 09N LONG 079 09 04W)										
JUL 2001 18...	02076740	20010718	1600	3.3	757	8.5	98	7.2	78	22.0
02077200 HYCO CREEK NEAR LEASBURG, NC (LAT 36 23 57N LONG 079 11 50W)										
JUN 2001 15...	02077200	20010615	1500	11	762	6.9	81	7.0	124	23.0
02077348 MARLOWE CREEK NR WOODSDALE, NC (LAT 36 29 03N LONG 078 58 47W)										
JUL 2001 25...	02077348	20010725	1056	6.4	756	7.6	92	7.3	477	24.5
0207966575 MILES CREEK AT RT 664 NEAR UNION LEVEL, VA (LAT 36 41 14N LONG 078 13 03W)										
JUL 2001 17...	0207966575	20010717	1415	1.6	763	4.9	60	6.7	83	26.0
0207974900 SIX POUND CREEK AT SR1306 NR CHURCH HILL, NC (LAT 36 30 37N LONG 078 04 46W)										
JUN 2001 12...	0207974900	20010612	1145	3.8	760	7.2	81	6.5	68	21.0
02079880 PEA HILL CREEK AT RT 665 NEAR GASBURG, VA (LAT 36 34 57N LONG 077 53 20W)										
JUL 2001 17...	02079880	20010717	1215	.32	763	5.6	61	6.7	78	19.5
0208215200 SAPONY CREEK AT SR1145 NR SPRING HOPE, NC (LAT 35 55 28N LONG 078 02 55W)										
JUL 2001 24...	0208215200	20010724	1315	.00	753	2.4	29	6.7	167	24.0

WATER-QUALITY DATA, FOR PERIOD JUNE TO AUGUST 2001

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
	02082731 DEVILS CRADLE CREEK AT SR1412 NEAR ALERT, NC (LAT 36 12 03N LONG 078 14 19W)									
JUN 2001 12...	02082731	20010612	1645	4.8	760	6.0	73	6.6	81	25.0
	0208291074 SHOCCO CREEK AT SR1613 NR LICKSKILLET, NC (LAT 36 17 14N LONG 078 11 09W)									
JUN 2001 12...	0208291074	20010612	1430	9.9	760	7.2	83	6.8	90	22.0
	0208309000 BEAVERDAM SWAMP AT NC561 NR HEATHSVILLE, NC (LAT 36 13 23N LONG 077 42 22W)									
JUL 2001 24...	0208309000	20010724	1000	.47	753	4.3	52	6.8	133	24.5
	0208361000 TOWN CREEK AT NC 43 NR MERCER, NC (LAT 35 49 20N LONG 077 39 35W)									
JUL 2001 12...	0208361000	20010712	1600	8.7	761	4.4	55	6.2	82	27.0
	0208409400 HARDEE CR ABOVE NC 33 NR GREENVILLE, NC (LAT 35 35 40N LONG 077 19 22W)									
JUL 2001 11...	0208409400	20010711	1600	1.8	758	5.1	66	6.8	150	28.0
	0208412725 GRINDLE CREEK AT US 264 AT PACTOLUS, NC (LAT 35 37 28N LONG 077 13 16W)									
JUL 2001 11...	0208412725	20010711	1200	25	758	8.2	103	6.3	171	26.5
	0208453950 DURHAM CR AT SR1932 AT MARY'S CHAPEL, NC (LAT 35 16 20N LONG 076 52 17W)									
JUL 2001 10...	0208453950	20010710	1615	2.4	761	3.5	42	3.5	72	24.5
	02084570 ACRE SWAMP NEAR PINETOWN, NC (LAT 35 35 02N LONG 076 50 23W)									
JUL 2001 11...	02084570	20010711	0930	3.6	758	7.1	83	5.6	121	23.0
	02086770 ELLERBE CREEK AT SR1709 NR DURHAM, NC (LAT 36 01 18N LONG 078 52 15W)									
JUN 2001 13...	02086770	20010613	1200	1.2	755	5.8	70	6.8	228	24.0
	0208700712 LITTLE LICK CR AT SR1815 AT OAK GROVE, NC (LAT 35 59 03N LONG 078 49 11W)									
JUN 2001 13...	0208700712	20010613	1440	.21	755	2.0	24	6.8	208	23.0
	0208726002 TURKEY CREEK AT MOUTH NR TYSONVILLE, NC (LAT 35 50 44N LONG 078 43 28W)									
JUN 2001 11...	0208726002	20010611	1100	3.8	758	7.6	87	7.0	106	21.5
	0208807339 BLACK CREEK AT SR2742 AT MT. PLEASANT, NC (LAT 35 34 00N LONG 078 40 30W)									
JUN 2001 11...	0208807339	20010611	1515	4.5	758	6.0	73	6.3	64	25.0
	0209051600 HOMINY SWAMP AT SR1060 NEAR EVANSDALE, NC (LAT 35 41 32N LONG 077 54 22W)									
JUL 2001 12...	0209051600	20010712	1230	.49	761	4.2	51	6.5	160	25.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

WATER-QUALITY DATA, FOR PERIOD JUNE TO AUGUST 2001

DATE	STATION NUMBER	DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)
02091000 NAHUNTA SWAMP NEAR SHINE, NC (LAT 35 29 20N LONG 077 48 22W)										
JUL 2001										
12...	02091000	20010712	1000	14	761	7.0	84	6.3	90	24.5
0209255670 ISLAND CREEK AT SR1004 NR POLLOCKSVILLE, NC (LAT 35 01 37N LONG 077 08 06W)										
JUL 2001										
10...	0209255670	20010710	1200	1.8	761	4.9	58	6.9	211	24.0

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CALENDAR FOR WATER YEAR 2001

2000

OCTOBER

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

NOVEMBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

DECEMBER

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23

2001

JANUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27

FEBRUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

MARCH

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

APRIL

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MAY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26

JUNE

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23

JULY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

AUGUST

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25

SEPTEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22

CONVERSION FACTORS AND VERTICAL DATUM

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter
	2.54×10^{-2}	meter
foot (ft)	3.048×10^{-1}	meter
mile (mi)	1.609×10^{0}	kilometer
	Area	
acre	4.047×10^{3}	square meter
	4.047×10^{-1}	square hectometer
	4.047×10^{-3}	square kilometer
square mile (mi^2)	2.590×10^{0}	square kilometer
	Volume	
gallon (gal)	3.785×10^{0}	liter
	3.785×10^{0}	cubic decimeter
	3.785×10^{-3}	cubic meter
million gallons (Mgal)	3.785×10^{3}	cubic meter
	3.785×10^{-3}	cubic hectometer
cubic foot (ft^3)	2.832×10^{1}	cubic decimeter
	2.832×10^{-2}	cubic meter
cubic-foot-per-second day [(ft^3/s) d]	2.447×10^{3}	cubic meter
	2.447×10^{-3}	cubic hectometer
acre-foot (acre-ft)	1.233×10^{3}	cubic meter
	1.233×10^{-3}	cubic hectometer
	1.233×10^{-6}	cubic kilometer
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second
	2.832×10^{1}	cubic decimeter per second
	2.832×10^{-2}	cubic meter per second
gallon per minute (gal/min)	6.309×10^{-2}	liter per second
	6.309×10^{-2}	cubic decimeter per second
	6.309×10^{-5}	cubic meter per second
million gallons per day (Mgal/d)	4.381×10^{1}	cubic decimeter per second
	4.381×10^{-2}	cubic meter per second
	Mass	
ton (short)	9.072×10^{-1}	megagram or metric ton

Sea level: In this report “sea level” refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment for the first-order level nets of both the United States and Canada, formerly called Sea Level Datum of 1929.